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

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

**Electronic meeting, Online, 14/02/2022 to 25/02/2022**

Contents:

1 Agenda and Meeting Objectives 3

2 Meeting Reports 3

3 Reports and Liaisons from other Groups 4

4 Work Areas 14

4.1 New WID on Security Assurance Specification for Management Function (MnF) 14

4.2 New WID on SECAM and SCAS for 3GPP virtualized network products 16

4.3 New WID on Mission critical security enhancements phase 3 17

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

4.5 Security Assurance Specification for 5G NWDAF (Rel-17) 18

4.6 Authentication and key management for applications based on 3GPP credential in 5G (Rel-17) 18

4.7 Enhancements of 3GPP profiles for cryptographic algorithms and security protocols (Rel- 17) 19

4.8 Security Aspects of Enhancements for 5G Multicast-Broadcast Services (Rel-17) 20

4.9 Security Aspects of eNPN (Rel-17) 22

4.10 Security Aspects of Enhancement of Support for Edge Computing in 5GC (Rel-17) 28

4.11 TLS protocols profiles for AKMA (Rel-17) 31

4.12 Security aspects of Uncrewed Aerial Systems (Rel-17) 32

4.13 Security Aspects of Proximity based services in 5GS ProSe (Rel-17) 35

4.14 Security Aspects of User Consent for 3GPP services (Rel-17) 47

4.15 Security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) (Rel-17) 48

4.16 Security aspects of the 5GMSG Service (Rel-17) 49

4.17 Enhanced security for Phase 2 network slicing (Rel-17) 49

4.18 New work item proposals for Rel-18 50

4.19 Other work areas (no release restrictions) 55

5 Studies areas 75

5.1 Study on 5G security enhancement against false base stations 75

5.2 Study on Security Impacts of Virtualisation 78

5.3 Study on authentication enhancements in 5GS 78

5.5 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS 79

5.6 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services 82

5.7 Study on security aspects of the 5GMSG Service 82

5.8 Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2 82

5.9 Study on the security of AMF re-allocation 82

5.10 Study on Security for NR Integrated Access and Backhaul 82

5.11 Study on enhanced Security Aspects of the 5G Service Based Architecture 83

5.12 Study on enhanced security for network slicing Phase 2 84

5.13 Study on non-seamless WLAN Offload in 5GS using 3GPP credentials 85

5.14 Study on privacy of identifiers over radio access 85

5.15 Study on Standardising Automated Certificate Management in SBA 88

6 CVD and research 89

7 Any Other Business 89

Annex A: Contribution documents and status 90

A1: List of TDocs 90

A2: Tdoc decision timing 111

Annex B: List of change requests 119

Annex C: Lists of liaisons 130

C1: Incoming liaison statements 130

C2: Outgoing liaison statements 132

Annex D: List of agreed/approved new and revised Work Items 133

Annex E: List of draft Technical Specifications and Reports 134

Annex F: List of participants 135

Annex G: List of future meetings 141

## 1 Agenda and Meeting Objectives

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

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

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

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

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

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

NOTE: a brief summary of the email discussions can be found in tdoc S3-220005.

**S3-220001 Agenda**

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

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

**S3-220003 Process for SA3#106e meeting**

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

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

**S3-220587 Process and agenda for SA3#106e**

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

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

## 2 Meeting Reports

**S3-220002 Report from SA3#105e**

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

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

**S3-220004 Report from last SA**

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

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

**S3-220005 Meeting notes from SA3 leadership**

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

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

**S3-220006 Meeting notes from SA3 leadership**

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

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

## 3 Reports and Liaisons from other Groups

**S3-220037 Reply on security protection of RRCResumeRequest message**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-221183*

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

**S3-220054 LS to 3GPP on Identification of source PLMN-ID in SBA**

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

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

**S3-220047 Reply LS on security protection of RRCResumeRequest message**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201864*

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

**S3-220421 Reply LS on Reply LS on security protection of RRCResumeRequest message**

*Type: LS out For: (not specified)  
 to RAN2, cc RAN3  
 Source: Nokia Corporation*

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

**S3-220051 LS on Security for Small Data Transmission**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201983*

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

**S3-220085 Reply LS on Security for Small Data Transmission**

*Type: LS out For: Approval  
 to RAN2, cc RAN3  
 Source: ZTE Corporation*

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

**S3-220086 Discussion on security of SDT**

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

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

**S3-220377 Discussion on LS on Security for Small Data Transmission**

*Type: discussion For: (not specified)  
 Source: Nokia Corporation*

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

**S3-220380 Reply LS on Security for Small Data Transmission**

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

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

**S3-220151 Discussion on Security Issues with SDT**

*Type: discussion For: Endorsement  
 Source: Intel*

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

**S3-220152 Reply LS on Security of Small data transmission**

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

**Decision:** The document was **revised to S3-220463**.

**S3-220050 LS on RAN3 impacts for non-SDT handling**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201977*

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

**S3-220040 TCG progress - report from TCG rapporteur**

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

**Abstract:**

This contribution provides a brief incremental summary of the progress in TCG Working Groups as of February 2022.

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

**S3-220007 LS on new parameters for SOR**

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

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

**S3-220415 CR to 33.501 to protect additional SoR information (CPSOR-CMCI) (future proof alternative)**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1345 Cat: C (Rel-17)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-220529**.

**S3-220416 CR to 33.501 to protect CPSOR-CMCI information only (alternative to S3-220415)**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1346 Cat: C (Rel-17)  
  
 Source: NTT DOCOMO INC.*

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

**S3-220431 draft-Reply LS on new parameters for SOR**

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

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

**S3-220008 LS on Using CP-SOR as a secured information transfer mechanism between HPLMN and UE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-217163*

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

**S3-220009 LS on the User Controlled PLMN Selector with Access Technology in Control plane solution for steering of roaming in 5GS**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-217358*

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

**S3-220010 [FSAG Doc 92\_003] Reply LS on attack preventing NAS procedures to succeed**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-217378*

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

**S3-220011 LS on Disaster Roaming Enabled Indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-217427*

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

**S3-220012 LS-Reply on Home Network triggered re-authentication**

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

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

**S3-220014 Reply LS on RAN2 agreements for MUSIM**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2111329*

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

**S3-220015 LS on RAN2 agreements for paging with service indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2111330*

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

**S3-220016 Reply LS on UP security policy update**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2111527*

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

**S3-220025 Reply LS on Using N32 for Interconnect Scenarios**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2109334*

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

**S3-220026 Reply to LS on Resynchronisations**

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

**Decision:** The document was **replied to in S3-220541**.

**S3-220027 Reply LS to CT3 Questions and Feedback on EVEX**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-211647*

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

**S3-220028 LS Reply on QoE report handling at QoE pause**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5- 216417*

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

**S3-220030 Non-Support of Ciphering Algorithm GEA1**

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

**Decision:** The document was **replied to in S3-220579**.

**S3-220031 New Name for ETSI TC SCP**

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

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

**S3-220032 LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation"**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG2*

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

**S3-220033 LS on Energy Efficiency as guiding principle for new solutions**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-211621*

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

**S3-220034 Reply LS to GSMA Operator Platform Group on edge computing definition and integration**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-210003*

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

**S3-220038 LS on opens issues for NB-IoT and eMTC support for NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-221406*

**Decision:** The document was **replied to in S3-220543**.

**S3-220269 Reply LS on opens issues for NB-IoT and eMTC support for NTN**

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

**Decision:** The document was **revised to S3-220543**.

**S3-220039 Reply LS on LTE User Plane Integrity Protection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-221473*

**Decision:** The document was **replied to in S3-220464**.

**S3-220302 Draft Reply LS on LTE User Plane Integrity Protection**

*Type: LS out For: Approval  
 to RAN3, SA2, cc CT1, RAN2  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220464**.

**S3-220424 Discussion on RAN 3’s Reply LS on LTE User Plane Integrity Protection**

*Type: discussion For: Discussion  
 Source: VODAFONE*

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

**S3-220045 Reply LS on NTN specific User Consent**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201754*

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

**S3-220143 NTN - Reply LS on NTN specific user consent (R2-2201754)**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA2, CT4  
 Source: Apple*

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

**S3-220190 Reply LS on user consent for NTN**

*Type: LS out For: Approval  
 to RAN2, cc SA2, CT4, RAN3  
 Source: Huawei, HiSilicon*

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

**S3-220043 Reply LS on energy efficiency as guiding principle for new solutions**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-221501*

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

**S3-220272 Proposal for NTN Specific User Consent**

*Type: discussion For: Endorsement  
 Source: Xiaomi Technology*

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

**S3-220428 Reply LS on Reply LS on NTN specific User Consent**

*Type: LS out For: (not specified)  
 to RAN2, cc SA2, CT4, RAN3  
 Source: Nokia Corporation*

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

**S3-220271 Reply LS on NTN specific User Consent**

*Type: LS out For: Approval  
 to RAN2, cc SA2, CT4, RAN3  
 Source: Xiaomi Technology*

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

**S3-220046 Further reply on QoE report handling at QoE pause**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201862*

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

**S3-220048 LS on UE providing Location Information for NB-IoT**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201957*

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

**S3-220049 LS on security concerns for UE providing Location Information for NB-IoT**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201958*

**Decision:** The document was **replied to in S3-220544**.

**S3-220273 Reply LS on security concerns for UE providing Location Information for NB-IoT**

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

**Decision:** The document was **revised to S3-220544**.

**S3-220144 NTN - Reply LS on NTN specific user consent (R2-2201958)**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA2, CT1, SA3Li  
 Source: Apple*

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

**S3-220425 Discussion on LS on security concerns for UE providing Location Information for NB-IoT**

*Type: discussion For: (not specified)  
 Source: Nokia Corporation*

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

**S3-220052 LS on UE location during initial access in NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2202057*

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

**S3-220053 LS on UE location during initial access in NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2201881*

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

**S3-220022 LS on Multicast paging with TMGI**

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

**Decision:** The document was **replied to in S3-220537**.

**S3-220165 Reply LS on Multicast paging with TMGI**

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

**Decision:** The document was **revised to S3-220537**.

**S3-220333 Reply LS on Multicast paging with TMGI**

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

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

**S3-220019 Reply LS on UE capabilities indication in UPU**

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

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

**S3-220020 Reply LS on updating the Credentials Holder controlled lists for SNPN selection**

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

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

**S3-220036 Reply LS on UE capabilities indication in UPU**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-220811*

**Decision:** The document was **replied to in** .

**S3-220216 Discussion integrity protection for UE capability indication in UPU**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-220217 Draft reply LS on UE capability indication in UPU**

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

**Decision:** The document was **revised to S3-220469**.

**S3-220238 Discussion on UE capabilities indication in UPU**

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

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

**S3-220013 LS for feedback on CT6’s study item related to network slice-specific authentication and authorization (NSSAA)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C6-210358*

**Decision:** The document was **replied to in S3-220201**.

**S3-220201 Reply LS on CT6’s study item related to NSSAA**

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

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

**S3-220338 Reply LS on CT6’s study item related to network slice-specific authentication and authorization (NSSAA)**

*Type: LS out For: Approval  
 to CT6  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220470**.

**S3-220189 Reply LS**

*Type: LS out For: Approval  
 to RAN3, cc SA2  
 Source: Huawei, HiSilicon*

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

**S3-220463 Reply LS on Security of Small data transmission**

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

(Replaces S3-220152)

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

**S3-220464 Reply LS on LTE User Plane Integrity Protection**

*Type: LS out For: Approval  
 to RAN3, SA2, cc CT4,CT1, RAN2  
 Source: Ericsson*

(Replaces S3-220302)

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

**S3-220469 Reply LS on UE capability indication in UPU**

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

(Replaces S3-220217)

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

**S3-220470 Reply LS on CT6’s study item related to network slice-specific authentication and authorization (NSSAA)**

*Type: LS out For: Approval  
 to CT6  
 Source: Qualcomm Incorporated*

(Replaces S3-220338)

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

**S3-220529 CR to 33.501 to protect additional SoR information (CPSOR-CMCI)**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1345 rev 1 Cat: C (Rel-17)  
  
 Source: NTT DOCOMO INC.*

(Replaces S3-220415)

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

**S3-220537 Reply LS on Multicast paging with TMGI**

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

(Replaces S3-220165)

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

**S3-220541 LS Reply on Resynchronisations**

*Type: LS out For: Agreement  
 to ETSI SAGE  
 Source: Ericsson Japan K.K.*

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

**S3-220543 Reply LS on opens issues for NB-IoT and eMTC support for NTN**

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

(Replaces S3-220269)

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

**S3-220544 Reply LS on security concerns for UE providing Location Information for NB-IoT**

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

(Replaces S3-220273)

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

**S3-220571 LS on Further Operator Platform Group questions following SDO Workshop**

*Type: LS out For: (not specified)  
 to SA, cc SA2, SA6, SA5  
 Source: Samsung*

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

**S3-220579 Reply LS on Non-Support of Ciphering Algorithm GEA1**

*Type: LS out For: Approval  
 to GCF  
 Source: Qualcomm incorporated*

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

**S3-220443 Further Operator Platform Group questions following SDO Workshop**

*Type: LS in For: Discussion  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA (forwarded by SA6)*

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

**S3-220444 LS on 3GPP TS 29.244**

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

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

## 4 Work Areas

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

**S3-220149 Discussion paper on SCAS for 3GPP defined Management Function**

*Type: discussion For: Endorsement  
 Source: Nokia Germany*

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

**S3-220150 Revise generic network product to support management function**

*Type: CR For: Agreement  
 33.926 v17.3.0 CR-0051 Cat: B (Rel-18)  
  
 Source: Nokia Germany*

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

**S3-220153 add annex for aspects specific to MnF network product class**

*Type: CR For: Agreement  
 33.926 v17.3.0 CR-0052 Cat: B (Rel-18)  
  
 Source: Nokia Germany*

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

**S3-220172 MnF SCAS Skeleton**

*Type: draft TS For: Approval  
 33.526 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-220173 MnF SCAS Scope**

*Type: pCR For: Approval  
 33.526 v0.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220534**.

**S3-220186 Living document for MnF SCAS: draftCR to TR 33.926**

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

**Decision:** The document was **revised to S3-220570**.

**S3-220524 Revise generic network product to support management function**

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

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

**S3-220526 add annex for aspects specific to MnF network product class**

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

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

**S3-220528 Draft TS 33.526**

*Type: draft TS For: (not specified)  
 33.526 v0.1.0  
 Source: Huawei Technologies Sweden AB*

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

**S3-220534 MnF SCAS Scope**

*Type: pCR For: Approval  
 33.526 v0.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-220173)

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

**S3-220570 Living document for MnF SCAS: draftCR to TR 33.926**

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

(Replaces S3-220186)

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

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

**S3-220121 proposal to add scope of TR33.936 Security Assurance Methodology (SECAM) for 3GPP virtualized network products**

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

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

**S3-220122 proposal to add skeleton of TR33.936 Security Assurance Methodology (SECAM) for 3GPP virtualized network products**

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

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

**S3-220123 proposal to add scope of TR33.927 Security Assurance Specification (SCAS) threats and critical assets in 3GPP virtualized network product classes**

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

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

**S3-220124 proposal to add skeleton of TR33.927 Security Assurance Specification (SCAS) threats and critical assets in 3GPP virtualized network product classes**

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

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

**S3-220125 proposal to add scope of TS33.527 Security Assurance Specification (SCAS) for 3GPP virtualized network products**

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

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

**S3-220126 proposal to add skeleton of TS33.527 Security Assurance Specification (SCAS) for 3GPP virtualized network products**

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

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

**S3-220560 TR 33.936**

*Type: draft TR For: (not specified)  
 33.936 v0.1.0  
 Source: China Mobile Com. Corporation*

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

**S3-220561 TR 33.927**

*Type: draft TR For: (not specified)  
 33.927 v0.1.0  
 Source: China Mobile Com. Corporation*

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

**S3-220562 TS 33.527**

*Type: draft TS For: (not specified)  
 33.527 v0.1.0  
 Source: China Mobile Com. Corporation*

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

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

**S3-220056 [33.180] R18 Clarification requested by ETSI Plugtest (mirror)**

*Type: CR For: Agreement  
 33.180 v17.5.0 CR-0185 Cat: F (Rel-18)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

To address an ETSI MCX Plugtest issue (mirror)

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

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

**S3-220386 Reference to SCP-specific requirements**

*Type: CR For: Agreement  
 33.522 v17.0.0 CR-0001 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220506**.

**S3-220387 Reference to other 3GPP specs**

*Type: CR For: Agreement  
 33.522 v17.0.0 CR-0002 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220506 Reference to SCP-specific requirements**

*Type: CR For: Agreement  
 33.522 v17.0.0 CR-0001 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220386)

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

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

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

**S3-220087 Add a Note about the Kaf refresh**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0115 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-220556**.

**S3-220088 Add function description about AAnF in 4.2.1**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0116 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220089 Clarification on the NF consumer in 6.6.1**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0117 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220090 Clarification on UDM manage AKMA subscription data in 4.2.5**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0118 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220285 Clarification on AKMA Application key retrieval**

*Type: CR For: Approval  
 33.535 v17.4.0 CR-0120 Cat: B (Rel-17)  
  
 Source: Samsung, ZTE*

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

**S3-220286 New AAnF application key get service without SUPI**

*Type: CR For: Approval  
 33.535 v17.4.0 CR-0121 Cat: B (Rel-17)  
  
 Source: Samsung, Verizon*

**Decision:** The document was **revised to S3-220569**.

**S3-220301 Clarification on indication to UE when KAF is expired**

*Type: CR For: Approval  
 33.535 v17.4.0 CR-0122 Cat: B (Rel-17)  
  
 Source: LG Electronics France*

**Decision:** The document was **revised to S3-220522**.

**S3-220304 Clean up for TS 33.535**

*Type: CR For: Approval  
 33.535 v17.4.0 CR-0123 Cat: D (Rel-17)  
  
 Source: LG Electronics France*

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

**S3-220522 Clarification on indication to UE when KAF is expired**

*Type: CR For: Approval  
 33.535 v17.4.0 CR-0122 rev 1 Cat: B (Rel-17)  
  
 Source: LG Electronics France*

(Replaces S3-220301)

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

**S3-220556 Add a Note about the Kaf refresh**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0115 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-220087)

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

**S3-220569 New AAnF application key get service without SUPI**

*Type: CR For: Approval  
 33.535 v17.4.0 CR-0121 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung, Verizon*

(Replaces S3-220286)

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

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

**S3-220317 Discussion on Ua security protocol identifier for PSK TLS 1.3**

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

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

**S3-220318 Adding a Note about the new Ua security protocol identifier for TLS 1.3**

*Type: CR For: Agreement  
 33.222 v17.1.0 CR-0057 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-220319 Adding a new Ua security protocol identifier for TLS 1.3**

*Type: CR For: Agreement  
 33.220 v17.2.0 CR-0215 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-220407 Adding Reference to RFC 7235 in TS 33.203**

*Type: CR For: Agreement  
 33.203 v17.0.0 CR-0263 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220408 LS on eCryptPr – Final Status**

*Type: LS out For: Approval  
 to CT1, cc RAN3, GSMA  
 Source: Ericsson*

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

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

**S3-220162 Resolution of authorization issue**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1274 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220535**.

**S3-220332 pCR to the draft CR: EN resolution**

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

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

**S3-220163 update to User-plane procedure for MBS security**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1275 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220164 Corrections and clarifications in the security mechanisms for MBS**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1276 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220536**.

**S3-220184 Secondary authentication for MBS sessions**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1280 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220225 Clarification on AS security aspect in 5MBS**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1294 Cat: D (Rel-17)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to S3-220519**.

**S3-220292 PDCP COUNT check for MRB**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1320 Cat: B (Rel-17)  
  
 Source: Samsung*

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

**S3-220293 MBS capability exchange and delivery method**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1321 Cat: B (Rel-17)  
  
 Source: Samsung*

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

**S3-220294 Security indication in MBS security context**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1322 Cat: B (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **revised to S3-220592**.

**S3-220091 Resolve the EN in 5MBS**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1264 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220092 Clean up for 5MBS**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1265 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220519 Clarification on AS security aspect in 5MBS**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1294 rev 1 Cat: F (Rel-17)  
  
 Source: LG Electronics Inc.*

(Replaces S3-220225)

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

**S3-220535 Resolution of authorization issue**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1274 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-220162)

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

**S3-220536 Corrections and clarifications in the security mechanisms for MBS**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1276 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-220164)

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

**S3-220592 Security indication in MBS security context**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1322 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung*

(Replaces S3-220294)

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

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

**S3-220188 Clarification on MSK and anonymous SUPI usage**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1282 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220215 UDM interaction for anonymous SUCI**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1286 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220220 Removing Editor’s note on SUPI sent to AAA**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1289 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220461**.

**S3-220221 Removing Editor’s note on AAA interface**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1290 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220239 DP-loss of control of preferred SNPN list in eNPN**

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

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

**S3-220240 SN name verification in eNPN**

*Type: CR For: Approval  
 33.501 v17.4.1 CR-1300 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220253 Removing Editor’s note on using only null-scheme SUCI**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1305 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220254 Removing Editor’s notes on AUSF selection and alignment with TS 23.501**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1306 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220257 Editorial for the Figure on key hierarchy for Credentials Holder using AAA**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1309 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220417 Resolution of editor’s note related to NSSAAF and AUSF selection**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1347 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220495**.

**S3-220418 Resolution of editor notes related SUPI usage and forwarding**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1348 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220419 Resolution of editor notes related UDM selection**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1349 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220496**.

**S3-220420 Resolution of editor notes related to protocol between NSSAAF and AAA.**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1350 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220497**.

**S3-220024 LS on support of DCS variants in UE Onboarding Architecture**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2109258*

**Decision:** The document was **replied to in S3-220493**.

**S3-220155 Clarifcation and corrections to UE Onboarding in SNPNs**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1272 Cat: F (Rel-17)  
  
 Source: Intel*

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

**S3-220197 REPLY LS on support of DCS variants in UE Onboarding Architecture**

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

**Decision:** The document was **revised to S3-220493**.

**S3-220218 Anonymous SUCI for initial access**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1287 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220219 Removing Editor’s note on SUPI for initial access for onboarding**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1288 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220256 Removing Editor’s note on additional requirements for primary authentication for onboarding.**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1308 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220335 Clarifcation and corrections to UE Onboarding in SNPNs**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1326 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220471**.

**S3-220435 Update to Clause 1.9 for Onboarding Initial Access**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1352 Cat: B (Rel-17)  
  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

Updates clause 1.9.1, 1.9.2.1 and 1.9.2.3

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

**S3-220017 Reply to LS on support of PWS over SNPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-214049*

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

**S3-220035 Reply LS on IMEI for Non-Public Networks/Private Networks without using USIM**

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

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

**S3-220255 Removing Editor’s note on Credentials Holder using AUSF and UDM for primary authentication**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1307 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220193 Resolution of editor’s note related to NSSAAF and AUSF selection**

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

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

**S3-220194 Resolution of editor notes related SUPI usage and forwarding**

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

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

**S3-220195 Resolution of editor notes related UDM selection**

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

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

**S3-220196 Resolution of editor notes related to protocol between NSSAAF and AAA.**

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

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

**S3-220461 Removing Editor’s note on SUPI sent to AAA**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1289 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220220)

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

**S3-220471 Clarifcation and corrections to UE Onboarding in SNPNs**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1326 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Intel*

(Replaces S3-220335)

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

**S3-220493 REPLY LS on support of DCS variants in UE Onboarding Architecture**

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

(Replaces S3-220197)

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

**S3-220495 Resolution of editor’s note related to NSSAAF and AUSF selection**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1347 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-220417)

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

**S3-220496 Resolution of editor notes related UDM selection**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1349 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220419)

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

**S3-220497 Resolution of editor notes related to protocol between NSSAAF and AAA.**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1350 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-220420)

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

**S3-220445 LS on primary authentication without using DCS**

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

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

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

**S3-220029 Reply LS on EAS and ECS identifiers**

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

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

**S3-220093 Authentication based on AKMA between EEC and ECS in clause 6.2**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: ZTE Corporation*

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

**S3-220137 MEC - TS - Negotiation procedure for the authentication and authorization**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Apple*

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

**S3-220138 MEC - TS - Authentication between EEC and ECS based on TLS-PSK**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Apple*

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

**S3-220146 Discussion on selection between options on Edge**

*Type: discussion For: Endorsement  
 33.558 v..  
 Source: OPPO*

**Abstract:**

Discussion on the issues of how to select between options on edge

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

**S3-220148 New solution: Authentication algorithm selection between EEC and ECS, EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: OPPO*

**Abstract:**

A solution that solve the companion Discussion on selection between options on Edge

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

**S3-220203 Authentication and authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: THALES*

**Abstract:**

It proposes normative text for clause 6.2 of TS 33.558.

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

**S3-220231 EC: Authentication and Authorization between EEC and ECS**

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

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

**S3-220289 Authentication and authorization between EEC and ECS/EES**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Samsung*

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

**S3-220315 Specifying EEC to ECS/EES security**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Qualcomm Incorporated*

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

**S3-220346 Discussion on having AKMA and GBA in EC from interoperability and future-proof point of view**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-220351 Authentication and authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220553**.

**S3-220094 Authentication based on AKMA between EEC and EES in clause 6.3**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: ZTE Corporation*

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

**S3-220205 Authentication and authoriation between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: THALES*

**Abstract:**

It proposes normative text for clause 6.3 of TS 33.558.

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

**S3-220232 EC: Authentication and Authorization between EEC and EES**

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

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

**S3-220352 Authentication and authorization between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220554**.

**S3-220158 Removal of EN related to identifiers for EES and ECS authentication and authorization.**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Intel*

**Decision:** The document was **revised to S3-220482**.

**S3-220154 MEC-TS-Enhanced Authentication between EEC and ECS based on TLS-PSK addressing the key diversity issue**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Apple Computer Trading Co. Ltd*

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

**S3-220176 Refer to User consent Requirements for MEC**

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

**Decision:** The document was **revised to S3-220488**.

**S3-220157 Corrections to EDGE reference and editorials**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Intel*

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

**S3-220482 Removal of EN related to identifiers for EES and ECS authentication and authorization.**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Intel*

(Replaces S3-220158)

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

**S3-220488 Refer to User consent Requirements for MEC**

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

(Replaces S3-220176)

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

**S3-220533 Presentation of Specification to TSG: TS 33.558, Version 0.4.0 for approval**

*Type: TS or TR cover For: Approval  
 33.558 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-220553 Authentication and authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Ericsson, Huawei, HiSilicon, Deutsche Telekom, Thales, China Mobile, Samsung, Intel*

(Replaces S3-220351)

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

**S3-220554 Authentication and authorization between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.3.0  
 Source: Ericsson, Huawei, HiSilicon, Thales, Intel, Samsung*

(Replaces S3-220352)

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

**S3-220568 Draft TS 33.558**

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

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

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

**S3-220095 Add description about error case in annex B**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0119 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220320 Adding text on preferring AKMA keys to GBA Digest**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0124 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220574**.

**S3-220574 Adding text on preferring AKMA keys to GBA Digest**

*Type: CR For: Agreement  
 33.535 v17.4.0 CR-0124 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-220320)

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

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

**S3-220018 Reply LS on 3GPP SA1 clarifications on problematic UAV**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-214238*

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

**S3-220120 remove EN in 5.2.1.5 UUAA revocation**

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

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

**S3-220432 Resolving EN for UUAA Revocation**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides an update to TS 33.256, Clause 5.2.1.5 UUAA Revocation

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

**S3-220119 security between UAS-NF and USS**

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

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

**S3-220181 Resolve EN about USS Identifier**

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

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

**S3-220311 Protection of UAS NF to USS interface**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220575**.

**S3-220313 Adding details of UUAA procedure in 4G**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220577**.

**S3-220314 Details of pairing in EPS**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220578**.

**S3-220312 Additional of further 5G pairing cases**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220576**.

**S3-220433 Resolving EN for UAS data security**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides an update to TS 33.256 Clause 5.2.1.3 and 5.4.2

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

**S3-220429 Update to Clause 5.2.1.1 General**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides an update to TS 33.256, Clause 5.2.1.1 General

**Decision:** The document was **revised to S3-220523**.

**S3-220430 Resolving EN for UUAA re-authentication**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides an update to TS 33.256, Clause 5.2.1.4 UUAA re-authentication procedure

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

**S3-220434 UUAA and Pairing Alignment update to 33.256**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides an update to TS 33.256 to address alignment issues

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

**S3-220076 Update to UUAA-MM procedure**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: InterDigital Finland Oy, Lenovo, Motorola Mobility*

**Abstract:**

This contribution provides an update to the UUAA-MM to include a missing step for authorization info delivery to the UE (via UCU), in alignment with Stage 2 and Stage 3 already specified procedures.

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

**S3-220523 Update to Clause 5.2.1.1 General**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-220429)

**Abstract:**

This pCR provides an update to TS 33.256, Clause 5.2.1.1 General

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

**S3-220575 Protection of UAS NF to USS interface**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon*

(Replaces S3-220311)

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

**S3-220576 Additional of further 5G pairing cases**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

(Replaces S3-220312)

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

**S3-220577 Adding details of UUAA procedure in 4G**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

(Replaces S3-220313)

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

**S3-220578 Details of pairing in EPS**

*Type: pCR For: Approval  
 33.256 v1.0.0  
 Source: Qualcomm Incorporated*

(Replaces S3-220314)

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

**S3-220580 TS 33.256 v1.1.0**

*Type: draft TS For: Agreement  
 33.256 v1.1.0  
 Source: Qualcomm CDMA Technologies*

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

**S3-220581 Cover sheet for TS 33.256**

*Type: TS or TR cover For: Approval  
 33.256 v1.1.0  
 Source: Qualcomm Incorporated*

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

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

**S3-220098 Add some abbrevations for Prose**

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

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

**S3-220208 pCR to TS33.503 Clause 3 Definitions of terms and abbreviations**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

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

**S3-220209 pCR to TS33.503 Clause 4.2 Add new reference point between PKMF and UDM**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-220564**.

**S3-220369 Definitation of functional entity PKMF**

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

**Decision:** The document was **revised to S3-220552**.

**S3-220274 33.503: Corrections for Network Domain Security**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-220545**.

**S3-220179 Clarification the security policy used during restricted discovery**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-220275 33.503: Issues for Clarifiacation in Open Discovery**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

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

**S3-220276 33.503: Proposed Changes in Model A Discovery**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-220546**.

**S3-220277 33.503: Proposed Changes in Model B Discovery**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-220547**.

**S3-220325 Discussion on potential security mechanisms for protecting ProSe Disocovery message**

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

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

**S3-220326 CR to ProSe TS – Update on the discovery protection mechanisms in Direct Discovery**

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

**Decision:** The document was **revised to S3-220583**.

**S3-220327 CR to ProSe TS – Updates on MIC calculation for Direct Discovery**

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

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

**S3-220360 Clarification Source Authenticity**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-220585**.

**S3-220361 Protection of longer discovery messages (simple)**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Philips International B.V.*

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

**S3-220362 Protection of longer discovery messages (more efficient)**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Philips International B.V.*

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

**S3-220072 Provisioning and refresh of 5G ProSe long-term credentials**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: KPN N.V.*

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

**S3-220074 Discussion paper on provisioning and refresh of 5G ProSe long-term credentials**

*Type: discussion For: Discussion  
 Source: KPN N.V.*

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

**S3-220079 Update to U2N Security procedure over User Plane when using GBA Push**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: InterDigital Finland Oy*

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

**S3-220096 Add a clause about key hierarchy for user plane**

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

**Decision:** The document was **revised to S3-220557**.

**S3-220097 Add an EN in clause 6.3.3.2.2**

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

**Decision:** The document was **revised to S3-220558**.

**S3-220099 Clarficaiton on PKMF act as AKMA AF in clause 6.3.3.2.2**

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

**Decision:** The document was **revised to S3-220559**.

**S3-220147 Remove the EN on privacy of PRUK ID**

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

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

**S3-220210 pCR to TS33.503 Clause 6.3 Support SUCI in security procedure over User Plane**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-220565**.

**S3-220278 33.503: PC5 Security Policy Privisioned by PKMF**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-220548**.

**S3-220324 CR on PRUK ID format**

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

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

**S3-220365 Resolving EN in user plane solution for UE-to-network relay**

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

**Decision:** The document was **revised to S3-220550**.

**S3-220370 PC5 security policies in User plane solution for ProSe UE-to-network relay**

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

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

**S3-220080 NSSAA for Remote UE with L3 U2N relay without N3IWF**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: InterDigital Finland Oy*

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

**S3-220100 Clarification on AUSF instance store in UDM**

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

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

**S3-220101 Clean up the step 10-14 in clause 6.3.3.3.2**

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

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

**S3-220103 Update the PC5 key hierarchy over control plane**

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

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

**S3-220104 Update the step 2-5 in clause 6.3.3.3.2**

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

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

**S3-220131 Address the EN on the UE-to-Network Relay security procedure over control plane**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: OPPO*

**Abstract:**

This pCR proposes to solve the three Editor’s Notes in clause 6.3.3.3.2 TS 33.503.

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

**S3-220161 Procedure for secondary authentication without N3IWF**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: LG Electronics Inc., InterDigital*

**Decision:** The document was **revised to S3-220527**.

**S3-220182 Resolving the ENs on authentication procedure in control plane security procedure**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-220183 Resolving the EN on the usage of 5GPRUK ID**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-220198 Procedure for secondary re-authentication and revocation of Remote UE over L3 U2N Relay without N3IWF**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: LG Electronics Inc., InterDigital*

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

**S3-220211 pCR to TS33.503 Clause 6.3 Update security procedure over Control Plane**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

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

**S3-220279 33.503: PC5 Security Policy Handling during CP-based Security Procedure**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

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

**S3-220288 Resolving EN in ProSe CP based solution**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Samsung, Interdigital, LG Electronics*

**Decision:** The document was **revised to S3-220572**.

**S3-220366 Discussion on the SBA services to support Prose authentication**

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

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

**S3-220367 SBA service operations for Prose CP based solution for L3 U2N security**

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

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

**S3-220371 Prose Anchor Function to handle PRUK and PRUK ID**

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

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

**S3-220372 Authentication flow over PC5 for Prose CP based solution for L3 U2N security**

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

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

**S3-220375 Removal of PRUK ID in CP based solution**

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

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

**S3-220180 Security procedures for L2 UE-to-Network relay**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220539**.

**S3-220280 33.503: PC5 Security Policy for L2 U2N Relay**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-220549**.

**S3-220373 Update for Security Procedure of Communication with 5G ProSe Layer-2 UE-to-Network Relay**

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

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

**S3-220376 ProSe: New service operations in the user plane solution for ProSe UE-to-network relay**

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

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

**S3-220436 pCR to TS33.503 Add new clause for network function service description**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-220566**.

**S3-220185 Clarification on procedures for PC5 establishment in UE-to-Network relay scenario**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-220213 pCR to TS33.503 Consistent term usage**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

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

**S3-220328 CR to ProSe TS – Privacy protection of RSC and PRUK ID over U2N relay**

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

**Decision:** The document was **revised to S3-220582**.

**S3-220357 Managing and provisioning of discovery keys**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Philips International B.V.*

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

**S3-220374 Correction of the reference for 5G ProSe Layer-3 UE-to-Network Relay Disocvery**

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

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

**S3-220441 Integrity protection for UE-to-NW relays**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Philips International B.V.*

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

**S3-220442 Long term identifier updates for UE-to-NW relays**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Philips International B.V.*

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

**S3-220102 CR to 33.501 about AUSF instance store in UDM**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1266 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220063 TR 33.847 Updates to conclusions for KI 2 and KI 3**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0001 Cat: F (Rel-17)  
  
 Source: MITRE Corporation*

**Abstract:**

This contribution proposes updates to TR 33.847 conclusions for key issue #2: Keys in ProSe discovery scenario and key issue #3: Security of UE-to-Network Relay.

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

**S3-220340 TR 33.847 – Updates to Conclusions for KI 2 and KI 3**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0007 Cat: F (Rel-17)  
  
 Source: MITRE Corporation*

**Abstract:**

This contribution proposes updates to TR 33.847 conclusions for key issue #2: Keys in ProSe discovery scenario and key issue #3: Security of UE-to-Network Relay.

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

**S3-220368 SBA service operations for Prose L3 U2N security CP solution**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1329 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220551**.

**S3-220505 LS on new reference point name for the interface between PKMF and UDM in 5G ProSe**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Ericsson LM*

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

**S3-220521 Rel-17 Work Item Exception for 5G\_ProSe Security Aspects**

*Type: WI exception request For: Approval  
 Source: CATT*

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

**S3-220527 Procedure for secondary authentication without N3IWF**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: LG Electronics Inc., InterDigital*

(Replaces S3-220161)

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

**S3-220539 Security procedures for L2 UE-to-Network relay**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Huawei, HiSilicon, Ericsson*

(Replaces S3-220180)

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

**S3-220545 33.503: Corrections for Network Domain Security**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

(Replaces S3-220274)

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

**S3-220546 33.503: Proposed Changes in Model A Discovery**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

(Replaces S3-220276)

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

**S3-220547 33.503: Proposed Changes in Model B Discovery**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

(Replaces S3-220277)

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

**S3-220548 33.503: PC5 Security Policy Privisioned by PKMF**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

(Replaces S3-220278)

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

**S3-220549 33.503: PC5 Security Policy for L2 U2N Relay**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Xiaomi Technology*

(Replaces S3-220280)

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

**S3-220550 Resolving EN in user plane solution for UE-to-network relay**

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

(Replaces S3-220365)

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

**S3-220551 SBA service operations for Prose L3 U2N security CP solution**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1329 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220368)

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

**S3-220552 Definitation of functional entity PKMF**

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

(Replaces S3-220369)

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

**S3-220557 Add a clause about key hierarchy for user plane**

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

(Replaces S3-220096)

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

**S3-220558 Add an EN in clause 6.3.3.2.2**

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

(Replaces S3-220097)

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

**S3-220559 Clarficaiton on PKMF act as AKMA AF in clause 6.3.3.2.2**

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

(Replaces S3-220099)

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

**S3-220564 pCR to TS33.503 Clause 4.2 Add new reference point between PKMF and UDM**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

(Replaces S3-220209)

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

**S3-220565 pCR to TS33.503 Clause 6.3 Support SUCI in security procedure over User Plane**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

(Replaces S3-220210)

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

**S3-220566 pCR to TS33.503 Add new clause for network function service description**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: CATT*

(Replaces S3-220436)

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

**S3-220567 Draft TS 33.503 v0.3.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS)**

*Type: draft TR For: Approval  
 33.503 v0.3.0  
 Source: CATT*

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

**S3-220572 Resolving EN in ProSe CP based solution**

*Type: pCR For: Approval  
 33.503 v0.2.0  
 Source: Samsung, Interdigital, LG Electronics*

(Replaces S3-220288)

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

**S3-220582 CR to ProSe TS – Privacy protection of RSC and PRUK ID over U2N relay**

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

(Replaces S3-220328)

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

**S3-220583 CR to ProSe TS – Update on the discovery protection mechanisms in Direct Discovery**

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

(Replaces S3-220326)

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

**S3-220585 Clarification Source Authenticity**

*Type: pCR For: (not specified)  
 33.503 v0.2.0  
 Source: Philips International B.V.*

(Replaces S3-220360)

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

### 4.14 Security Aspects of User Consent for 3GPP services (Rel-17)

**S3-220023 Reply LS on user consent**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2109089*

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

**S3-220041 LS on User consent Updating**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-221210*

**Decision:** The document was **replied to in S3-220474**.

**S3-220270 Reply LS on User Consent Updating**

*Type: LS out For: Approval  
 to RAN3, cc CT4, SA5, SA2  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-220474**.

**S3-220378 Reply LS on User consent Updating**

*Type: LS out For: Approval  
 to RAN3, cc CT4  
 Source: Ericsson LM*

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

**S3-220177 Delete Editor's Note in UC3S**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1279 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220489**.

**S3-220383 User consent revocation**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1330 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220175 User consent requirements and procedures for eNA**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1278 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220187 User Consent Requirements and Procedures for MEC**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1281 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220384 User consent enforcement point**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1331 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220474 Reply LS on User Consent Updating**

*Type: LS out For: Approval  
 to RAN3, cc CT4, SA5, SA2  
 Source: Xiaomi Technology*

(Replaces S3-220270)

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

**S3-220489 Delete Editor's Note in UC3S**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1279 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-220177)

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

### 4.15 Security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) (Rel-17)

**S3-220191 Refer to User Consent Requirements for eNA**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1283 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220540**.

**S3-220540 Refer to User Consent Requirements for eNA**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1283 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-220191)

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

### 4.16 Security aspects of the 5GMSG Service (Rel-17)

**S3-220265 Removal of EN in 5GMSG security**

*Type: CR For: Approval  
 33.501 v17.4.1 CR-1313 Cat: F (Rel-17)  
  
 Source: China Mobile*

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

**S3-220290 Resolving EN on authorization in MSGin5G**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1319 Cat: B (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **revised to S3-220593**.

**S3-220299 Discussion on Authorization of MSGin5G Client**

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

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

**S3-220593 Resolving EN on authorization in MSGin5G**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1319 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung*

(Replaces S3-220290)

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

### 4.17 Enhanced security for Phase 2 network slicing (Rel-17)

**S3-220114 CR for AF Authorization for accessing network slice quota-usage information**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1269 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220530**.

**S3-220414 Discussion about the NEF-AF trust model for solution #1 in TR 33.874**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220542**.

**S3-220530 CR for AF Authorization for accessing network slice quota-usage information**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1269 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-220114)

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

**S3-220542 Discussion about the NEF-AF trust model for solution #1 in TR 33.874**

*Type: discussion For: Endorsement  
 Source: Ericsson*

(Replaces S3-220414)

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

### 4.18 New work item proposals for Rel-18

**S3-220059 New WID on Authentication enhancements in 5GS**

*Type: SID new For: Approval  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to continue work on Authentication enhancements in 5GS in Release 18

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

**S3-220105 Discussion on new wid on akma push function**

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

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

**S3-220106 New WID on AKMA push function**

*Type: WID new For: Approval  
 Source: ZTE Corporation*

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

**S3-220118 Rel-18 study for network slicing security**

*Type: SID revised For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-220127 Proposal about considerations to introduce security capability center function**

*Type: discussion For: Endorsement  
 Source: China Mobile*

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

**S3-220128 Discussion on blockchain based approach for cross-domain certificate management in 3GPP system**

*Type: discussion For: Discussion  
 Source: China Mobile*

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

**S3-220129 New SID on blockchain based approach for cross-domain certification management in 3GPP system**

*Type: SID new For: Approval  
 Source: China Mobile*

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

**S3-220130 New SID on security aspects of enablers for Network Automation for 5G - phase 3**

*Type: SID new For: Approval  
 Source: China Mobile, ZTE, Ericsson, Apple, China Unicom, CAICT, China Telecom, Cablelabs, Nokia, Nokia Shanghai Bell, CATT*

**Decision:** The document was **revised to S3-220563**.

**S3-220132 Discussion on Personal IoT Networks Security Aspects**

*Type: discussion For: Discussion  
 Source: vivo*

**Abstract:**

Discussion on security aspects of Personal IoT Networks

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

**S3-220133 New SID on Personal IoT Networks Security Aspects**

*Type: SID new For: Approval  
 Source: vivo, Apple, ZTE, Xiaomi, CATT, OPPO, China Unicom, China Telecom, CableLabs, InterDigital*

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

**S3-220136 5GFBS- new WID on 5GFBS**

*Type: WID new For: Approval  
 Source: Apple, US National Security Agency, AT&T, Deutsche Telekom, Ericsson, Huawei, Hisilicon, CableLabs, Intel, InterDigital, Johns Hopkins University APL, NIST, Xiaomi, OPPO*

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

**S3-220166 New SID on security enhancements for 5G multicast-broadcast services Phase 2**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-220167 Discussion on security enhancements for 5GC LoCation Services Phase 3**

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

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

**S3-220168 New SID on Enhancement of User Consent for 3GPP Services**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-220169 New WID for SCAS work to introduce R-17 features on existing functions**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-220170 New SID on Home network triggerred authenticaiton**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220538**.

**S3-220206 New SID on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 2**

*Type: SID new For: Approval  
 Source: CATT, China Unicom, Interdigital*

**Decision:** The document was **revised to S3-220586**.

**S3-220586 New SID on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 2**

*Type: SID new For: Approval  
 Source: CATT, China Unicom, Interdigital*

(Replaces S3-220206)

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

**S3-220228 R18 SID on Security Enhancement of support for Edge Computing — phase 2**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220584**.

**S3-220252 New SID on security aspects of enhanced support of Non-Public Networks phase 2**

*Type: SID new For: Agreement  
 Source: Ericsson, CableLabs, InterDigital, Intel, Xiaomi, Nokia, Nokia Shanghai Bell, ZTE*

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

**S3-220262 New SID on enhancement of AKMA**

*Type: SID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-220531**.

**S3-220263 New WID on SCAS for AAnF**

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

**Decision:** The document was **revised to S3-220532**.

**S3-220281 New SID on Security Aspects of Ranging Based Services and Sidelink Positioning**

*Type: SID new For: Approval  
 Source: Xiaomi Technology*

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

**S3-220282 New SID on Security Aspects of Satellite Access**

*Type: SID new For: Approval  
 Source: Xiaomi Technology*

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

**S3-220297 New SID on 5G User plane security enhancements**

*Type: SID new For: Approval  
 Source: Samsung*

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

**S3-220300 R18 SID on Standardising Automated Certificate Management in SBA**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220520**.

**S3-220321 Discussion on SCAS for gNB**

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

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

**S3-220322 New WID on Updates to gNB SCAS including split gNBs**

*Type: WID new For: Agreement  
 Source: Qualcomm Incorporated, Deutsche Telekom AG, AT&T*

**Decision:** The document was **revised to S3-220573**.

**S3-220363 Study on Security aspects for 5WWC Phase 2**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220382 Discussion on applying URSP rules for Authentic Applications**

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

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

**S3-220405 New Study on applying URSP rules for Authentic Applications (FS\_UAutA)**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility*

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

**S3-220410 New SID on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NR Air Interface and NG-RAN**

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

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

**S3-220422 AIML Security and Privacy SID**

*Type: SID new For: Approval  
 Source: Chengdu OPPO Mobile Com. corp.*

**Abstract:**

New SID proposal on Security and Privacy of AI/ML-based services and applications in 5G

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

**S3-220426 Study on Zero Trust Security**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility, Interdigital, Verizon, Cablelabs, Mavenir, Johns Hopkins University APL, LG Electronics, Telefonica*

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

**S3-220427 Discussion to Study on Zero Trust Security**

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

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

**S3-220520 R18 SID on Standardising Automated Certificate Management in SBA**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220300)

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

**S3-220531 New SID on enhancement of AKMA**

*Type: SID new For: Approval  
 Source: China Mobile*

(Replaces S3-220262)

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

**S3-220532 New WID on SCAS for AAnF**

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

(Replaces S3-220263)

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

**S3-220538 New SID on Home network triggerred authenticaiton**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-220170)

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

**S3-220563 New SID on security aspects of enablers for Network Automation for 5G - phase 3**

*Type: SID new For: Approval  
 Source: China Mobile, ZTE, Ericsson, Apple, China Unicom, CAICT, China Telecom, Cablelabs, Nokia, Nokia Shanghai Bell, CATT*

(Replaces S3-220130)

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

**S3-220573 New WID on Updates to gNB SCAS including split gNBs**

*Type: WID new For: Agreement  
 Source: Qualcomm Incorporated, Deutsche Telekom AG, AT&T, Altiostar*

(Replaces S3-220322)

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

**S3-220584 R18 SID on Security Enhancement of support for Edge Computing — phase 2**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-220228)

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

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

**S3-220061 Align GUTI allocation to best practices of unpredictable identifier generation.**

*Type: CR For: Approval  
 33.401 v17.0.0 CR-0702 Cat: F (Rel-17)  
  
 Source: Deutsche Telekom AG*

**Abstract:**

Align GUTI allocation to best practices of unpredictable identifier generation.

**Decision:** The document was **revised to S3-220455**.

**S3-220075 GUTI allocation discussion paper**

*Type: discussion For: Discussion  
 33.401 v..  
 Source: Deutsche Telekom AG*

**Abstract:**

This is the discussion paper to motivate the corresponding CR, that is S3-220061

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

**S3-220082 Integrity check during context transfer scenario 2**

*Type: CR For: (not specified)  
 33.501 v17.4.2 CR-1211 rev 1 Cat: F (Rel-17)  
  
 Source: NEC Telecom MODUS Ltd.*

(Replaces S3-213991)

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

**S3-220334 Correct NAS uplink COUNT for KgNB/KeNB derivation**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1325 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

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

**S3-220413 Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1344 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220454**.

**S3-220069 [33.180] R16 Clarification requested by ETSI Plugtest**

*Type: CR For: Agreement  
 33.180 v16.8.0 CR-0186 Cat: F (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Addresses an ETSI Plugtest issue

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

**S3-220070 [33.180] R17 Clarification requested by ETSI Plugtest (mirror)**

*Type: CR For: Agreement  
 33.180 v17.5.0 CR-0187 Cat: A (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Addresses an ETSI Plugtest issue (mirror)

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

**S3-220071 [33.180] R18 Clarification requested by ETSI Plugtest (mirror)**

*Type: CR For: Agreement  
 33.180 v17.5.0 CR-0188 Cat: A (Rel-18)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Addresses an ETSI Plugtest issue (mirror)

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

**S3-220291 Authorization between MCData message store and MCData Server**

*Type: CR For: Approval  
 33.180 v17.5.0 CR-0189 Cat: B (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **revised to S3-220494**.

**S3-220083 Editor note removal from Annex S**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1262 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220467**.

**S3-220156 Clarification and corrections to NSWO SBI Interface methods**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1273 Cat: F (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S3-220481**.

**S3-220171 Delete Editor's Note in NSWO**

*Type: CR For: Approval  
 33.501 v17.4.0 CR-1277 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220261 Discussion on the SBA service operations to support NSWO authentication**

*Type: discussion For: Endorsement  
 Source: Ericsson, Thales*

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

**S3-220266 Update of NSWO authentication procedure and SBA service operations**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1314 Cat: F (Rel-17)  
  
 Source: Ericsson, Thales*

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

**S3-220267 Resolve Editor Note related to co-existence of EPS NSWO**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1315 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220268 Roaming for 5G NSWO**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1316 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220283 Usage of AN ID for NSWO authentication**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1317 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220284 Alternative solution for NSWO authentication**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1318 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220336 Co-existence with EPS NSWO**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1327 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220472**.

**S3-220337 5G NSWO roaming aspects**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1328 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-220473**.

**S3-220400 Using existing authentication services for NSWO**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1339 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220117 Serving network name in NSSAA**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1270 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-220202 EAP ID Request in NSSAA procedure**

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

**Abstract:**

Discussion around the optionality of EAP ID request in NSSAA procedure

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

**S3-220204 EAP ID Request in NSSAA Procedure (Rel-16)**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1284 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The EAP ID request within the NSSAA procedure is made mandatory.

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

**S3-220207 EAP ID Request in NSSAA Procedure (Rel-17)**

*Type: CR For: (not specified)  
 33.501 v17.4.2 CR-1285 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The EAP ID request within the NSSAA procedure is made mandatory.

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

**S3-220212 LS on EAP ID Request in NSSAA Procedure**

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

**Abstract:**

SA3 kindly requests SA2 to update TS 23.502 regarding the EAP ID request in NSSAA procedure (i.e. to make it mandatory).

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

**S3-220298 Updates to NF profile for inter-slice access control**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1324 Cat: B (Rel-17)  
  
 Source: Samsung*

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

**S3-220107 Delete EN on defining EIA7 in clause 6.6.4.3**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1267 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-220174 Report UP IP Security Result**

*Type: CR For: Approval  
 33.401 v17.0.0 CR-0703 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220303 UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17**

*Type: CR For: Agreement  
 33.401 v17.0.0 CR-0704 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220462**.

**S3-220145 CR - 33501 - Clarification on Fast re-authentication**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1271 Cat: F (Rel-17)  
  
 Source: Apple*

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

**S3-220402 Clarification on unspecified expiration of AV in 5G AKA**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1340 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220403 Clarification on unspecified expiration of AV in 5G AKA**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1341 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220404 Clarification on unspecified expiration of AV in 5G AKA**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1342 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220227 Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1295 Cat: A (Rel-17)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to S3-220447**.

**S3-220258 Rel-15 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1310 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S3-220259 Rel-16 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1311 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-220260 Rel-17 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1312 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-220316 Using MACS as a freshness parameter in the calculation of AK\***

*Type: CR For: Agreement  
 33.102 v16.0.0 CR-0282 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, Thales*

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

**S3-220178 Clean up for TR 33.867**

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

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

**S3-220214 New WID on Security Aspects of Minimization of Service Interruption (MINT)**

*Type: WID new For: Approval  
 Source: LG Electronics Inc.*

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

**S3-220224 Rel-17 security aspects on MINT feature**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1293 Cat: B (Rel-17)  
  
 Source: LG Electronics Inc.*

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

**S3-220222 Rel-17 SUPI Privacy for SNPN**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1291 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-220223 Rel-16 SUPI Privacy for SNPN**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1292 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-220066 Clarification when the responder SEPP establish a second N32-C connection**

*Type: CR For: Approval  
 33.501 v16.9.1 CR-1260 Cat: F (Rel-16)  
  
 Source: Mavenir*

**Abstract:**

Clarification for the setup of the second N32-c connection by the responding SEPP

**Decision:** The document was **revised to S3-220465**.

**S3-220067 Clarification when the responder SEPP establish a second N32-C connection**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1261 Cat: A (Rel-17)  
  
 Source: Mavenir*

**Abstract:**

Clarification for the setup of the second N32-c connection by the responding SEPP

**Decision:** The document was **revised to S3-220466**.

**S3-220229 Resolving the EN on the authorization between SCPs**

*Type: CR For: Approval  
 33.501 v17.4.1 CR-1296 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

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

**S3-220233 Clarification on IV usage on N32-f protection-R15**

*Type: CR For: Approval  
 33.501 v15.14.1 CR-1297 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

**S3-220234 Clarification on IV usage on N32-f protection-R16**

*Type: CR For: Approval  
 33.501 v16.9.1 CR-1298 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-220235 Clarification on IV usage on N32-f protection-R17**

*Type: CR For: Approval  
 33.501 v17.4.1 CR-1299 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-220241 Clarification on the format of callback URI in the NF certificate profile**

*Type: CR For: Agreement  
 33.310 v16.8.0 CR-0125 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220475**.

**S3-220242 Clarification on the format of callback URI in the NF certificate profile**

*Type: CR For: Agreement  
 33.310 v17.1.0 CR-0126 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220476**.

**S3-220243 Clarification on the certificate profile for SCP and SEPP**

*Type: draftCR For: Approval  
 33.310 v16.8.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220477**.

**S3-220244 Multiple PLMN-IDs in the SEPP interconnect certificate profile**

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

**Decision:** The document was **revised to S3-220478**.

**S3-220245 SEPP to include and verify the source PLMN-ID**

*Type: draftCR For: Approval  
 33.501 v17.4.2  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220479**.

**S3-220246 Resolving Editor's Notes in "SEPP to include and verify the source PLMN-ID"**

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

**Decision:** The document was **revised to S3-220480**.

**S3-220247 Further alignment with TS 29.573 to clarify that N32-c is short-lived**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1301 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-220248 Further alignment with TS 29.573 to clarify that N32-c is short-lived**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1302 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-220392 Clarification on separate handling of N32-c and N32-f**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1332 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220589**.

**S3-220393 Clarification on separate handling of N32-c and N32-f**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1333 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220590**.

**S3-220394 Clarification on separate handling of N32-c and N32-f**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1334 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220591**.

**S3-220064 OAuth2.0 misalignmnet**

*Type: CR For: Approval  
 33.501 v16.9.1 CR-1258 Cat: F (Rel-16)  
  
 Source: Mavenir*

**Abstract:**

Clarification for the setup of the second N32-c connection by the responding SEPP

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

**S3-220395 draftCR NRF deployment was S3-214534**

*Type: draftCR For: Approval  
 33.501 v17.4.1  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

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

**S3-220065 OAuth2.0 misalignmnet**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1259 Cat: A (Rel-17)  
  
 Source: Mavenir*

**Abstract:**

Clarification for the setup of the second N32-c connection by the responding SEPP

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

**S3-220396 NRF deployments**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1335 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220397 SEPP reference**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1336 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220084 Verification of NSSAIs for preventing slice attack**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1263 Cat: F (Rel-16)  
  
 Source: CableLabs*

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

**S3-220109 Verification of NSSAIs for preventing slice attack**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1268 Cat: A (Rel-17)  
  
 Source: CableLabs*

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

**S3-220236 Clarification on origination of the Rel17 SCAS test cases in AMF**

*Type: CR For: Approval  
 33.512 v17.2.0 CR-0022 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-220503**.

**S3-220249 Editorials suggested by Edithelp**

*Type: CR For: Agreement  
 33.857 v17.0.0 CR-0001 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220250 Removing Editor's Note on PNi-NPN security aspects**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1303 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-220251 Removing Editor's Note on PNi-NPN security aspects**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1304 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-220295 Clarification to IAB in EN-DC architecture**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1323 Cat: F (Rel-17)  
  
 Source: Samsung*

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

**S3-220323 Correcting the update to the support of GEA algorithms in Rel-11**

*Type: CR For: Agreement  
 43.020 v11.3.0 CR-0064 Cat: F (Rel-11)  
  
 Source: Qualcomm Incorporated*

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

**S3-220341 Updating SEAL-S security**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0005 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-220342 Updating SEAL-UU security**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0006 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-220343 Profiling ACE in SEAL**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0007 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-220344 Revisiting security of SEAL interfaces**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-220345 Correcting the implementation of approved S3-214431 to SEAL TS 33.434**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0008 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220456**.

**S3-220347 Rel-16 CAPIF usage for SEAL-S**

*Type: CR For: Agreement  
 33.434 v16.2.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220457**.

**S3-220348 Rel-17 CAPIF usage for SEAL-S**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0010 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220458**.

**S3-220349 Rel-16 Correcting SEAL-UU security**

*Type: CR For: Agreement  
 33.434 v16.2.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220459**.

**S3-220350 Rel-17 Correcting SEAL-UU security**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0012 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220460**.

**S3-220388 Reference to symmetric channel delay clause**

*Type: CR For: Agreement  
 33.851 v17.0.0 CR-0001 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220398 Reference to N5CW and key derivation correction**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1337 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220508**.

**S3-220399 Reference to N5CW and key derivation correction**

*Type: CR For: Agreement  
 33.501 v17.4.1 CR-1338 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220509**.

**S3-220401 Editorial corrections to Annex F of IMS**

*Type: CR For: Agreement  
 33.328 v17.0.0 CR-0069 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220411 Update of references for the GBA related UDM service operations**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1343 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220423 Deletion of the usage of NGAP PATH SWITCH REQUEST ACKNOWLEDGE message for AS rekeying during Xn-Handover**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1351 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO INC.*

**Abstract:**

To delete an option to use NGAP PATH SWITCH REQUEST ACKNOWLEDGE message for AS rekeying during Xn-Handover and to use instead the procedure for context modification procedure.

R16 and R17 mirror CRs will be provided to the meeting after the text stabilise

**Decision:** The document was **revised to S3-220500**.

**S3-220385 Formatting and alignment corrections**

*Type: CR For: Agreement  
 33.867 v17.0.0 CR-0002 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220507**.

**S3-220447 Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1295 rev 1 Cat: A (Rel-17)  
  
 Source: LG Electronics Inc.*

(Replaces S3-220227)

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

**S3-220448 Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501(R15)**

*Type: CR For: Approval  
 33.501 v15.14.1 CR-1353 Cat: F (Rel-15)  
  
 Source: LG Electronics Inc.*

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

**S3-220449 Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501(R16)**

*Type: CR For: Approval  
 33.501 v16.9.1 CR-1354 Cat: A (Rel-16)  
  
 Source: LG Electronics Inc.*

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

**S3-220454 Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1344 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220413)

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

**S3-220455 Align GUTI allocation to best practices of unpredictable identifier generation.**

*Type: CR For: Approval  
 33.401 v17.0.0 CR-0702 rev 1 Cat: F (Rel-17)  
  
 Source: Deutsche Telekom AG*

(Replaces S3-220061)

**Abstract:**

Align GUTI allocation to best practices of unpredictable identifier generation.

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

**S3-220456 Correcting the implementation of approved S3-214431 to SEAL TS 33.434**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0008 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220345)

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

**S3-220457 Rel-16 CAPIF usage for SEAL-S**

*Type: CR For: Agreement  
 33.434 v16.2.0 CR-0009 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-220347)

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

**S3-220458 Rel-17 CAPIF usage for SEAL-S**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0010 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220348)

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

**S3-220459 Rel-16 Correcting SEAL-UU security**

*Type: CR For: Agreement  
 33.434 v16.2.0 CR-0011 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-220349)

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

**S3-220460 Rel-17 Correcting SEAL-UU security**

*Type: CR For: Agreement  
 33.434 v17.0.0 CR-0012 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220350)

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

**S3-220462 UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17**

*Type: CR For: Agreement  
 33.401 v17.0.0 CR-0704 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220303)

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

**S3-220465 Clarification when the responder SEPP establish a second N32-C connection**

*Type: CR For: Approval  
 33.501 v16.9.1 CR-1260 rev 1 Cat: F (Rel-16)  
  
 Source: Mavenir*

(Replaces S3-220066)

**Abstract:**

Clarification for the setup of the second N32-c connection by the responding SEPP

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

**S3-220466 Clarification when the responder SEPP establish a second N32-C connection**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1261 rev 1 Cat: A (Rel-17)  
  
 Source: Mavenir*

(Replaces S3-220067)

**Abstract:**

Clarification for the setup of the second N32-c connection by the responding SEPP

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

**S3-220467 Editor note removal from Annex S**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1262 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell,Huawei, HiSilicon*

(Replaces S3-220083)

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

**S3-220468 Verification of NSSAIs for preventing slice attack**

*Type: draftCR For: Agreement  
 33.501 v16.9.1  
 Source: CableLabs, Ericsson*

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

**S3-220472 Co-existence with EPS NSWO**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1327 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces S3-220336)

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

**S3-220473 5G NSWO roaming aspects**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1328 rev 1 Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces S3-220337)

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

**S3-220475 Correction of the format of the URN string in the NF certificate profile**

*Type: CR For: Agreement  
 33.310 v16.8.0 CR-0125 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-220241)

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

**S3-220476 Correction of the format of the URN string in the NF certificate profile**

*Type: CR For: Agreement  
 33.310 v17.1.0 CR-0126 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-220242)

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

**S3-220477 Clarification on the certificate profile for SCP and SEPP**

*Type: draftCR For: Approval  
 33.310 v16.8.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces S3-220243)

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

**S3-220478 Multiple PLMN-IDs in the SEPP interconnect certificate profile**

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

(Replaces S3-220244)

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

**S3-220479 SEPP to include and verify the source PLMN-ID**

*Type: draftCR For: Approval  
 33.501 v17.4.2  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Mavenir*

(Replaces S3-220245)

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

**S3-220480 Resolving Editor's Notes in "SEPP to include and verify the source PLMN-ID"**

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

(Replaces S3-220246)

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

**S3-220481 Clarification and corrections to NSWO SBI Interface methods**

*Type: CR For: Approval  
 33.501 v17.4.2 CR-1273 rev 1 Cat: F (Rel-17)  
  
 Source: Intel, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-220156)

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

**S3-220494 Authorization between MCData message store and MCData Server**

*Type: CR For: Approval  
 33.180 v17.5.0 CR-0189 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung*

(Replaces S3-220291)

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

**S3-220499 Reply LS on MINT functionality for Disaster Roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2201514*

**Decision:** The document was **replied to in S3-220518**.

**S3-220500 Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1351 rev 1 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO INC.*

(Replaces S3-220423)

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

**S3-220501 Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2.**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1355 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO INC.*

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

**S3-220502 Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2.**

*Type: CR For: (not specified)  
 33.501 v17.4.2 CR-1356 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO INC.*

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

**S3-220503 Clarification on origination of the Rel17 SCAS test cases in AMF**

*Type: CR For: Approval  
 33.512 v17.2.0 CR-0022 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-220236)

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

**S3-220507 Formatting and alignment corrections**

*Type: CR For: Agreement  
 33.867 v17.0.0 CR-0002 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220385)

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

**S3-220508 Reference to N5CW and key derivation correction**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1337 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220398)

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

**S3-220509 Reference to N5CW and key derivation correction**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1338 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220399)

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

**S3-220510 Draft CR on NRF deployments**

*Type: draftCR For: (not specified)  
 33.501 v17.4.2  
 Source: Nokia Germany, Ericsson,Mavenir,Huawei,HiSilicon*

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

**S3-220518 Reply LS on Reply LS on MINT functionality for Disaster Roaming**

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

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

**S3-220589 Clarification on separate handling of N32-c and N32-f**

*Type: CR For: Agreement  
 33.501 v15.14.1 CR-1332 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom*

(Replaces S3-220392)

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

**S3-220590 Clarification on separate handling of N32-c and N32-f**

*Type: CR For: Agreement  
 33.501 v16.9.1 CR-1333 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom*

(Replaces S3-220393)

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

**S3-220591 Clarification on separate handling of N32-c and N32-f**

*Type: CR For: Agreement  
 33.501 v17.4.2 CR-1334 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom*

(Replaces S3-220394)

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

**S3-220446 LS on 5G NSWO roaming aspects**

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

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

## 5 Studies areas

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

**S3-220134 5GFBS-Conclusion for solution#17**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Apple*

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

**S3-220135 5GFBS- Draft LS to RAN plenary on the conlcusion of solution#17**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Apple*

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

**S3-220192 addressing the editor's notes in sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Huawei, HiSilicon, CableLabs*

**Decision:** The document was **revised to S3-220490**.

**S3-220305 Addressing the editor’s note in 6.27.2.1.1 of Sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: CableLabs*

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

**S3-220306 Addressing the editor’s note in 6.27.2.1.2 of sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: CableLabs*

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

**S3-220307 Addressing the editor’s note in 6.27.2.1.5 of sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: CableLabs*

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

**S3-220308 Addressing the editor’s note in 6.27.2.1.7 of sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: CableLabs*

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

**S3-220309 Addressing the editor’s note in 6.27.2.2.1of Sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: CableLabs*

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

**S3-220310 Addressing the editor’s note in 6.27.2.2.4 of Sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: CableLabs*

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

**S3-220353 New Solution: Shared key based MIB/SIBs protection with enhanced protection against replay/MitM attacks**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Philips International B.V.*

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

**S3-220110 LS out on authenticity and replay protection of system information**

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

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

**S3-220111 Update to solution #25**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Huawei, HiSilicon*

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

**S3-220112 Evaluation of solution #4**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Huawei, HiSilicon*

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

**S3-220113 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Huawei, HiSilicon*

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

**S3-220406 Detection of MitM attacks with secret paging**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Lenovo, Motorola Mobility*

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

**S3-220437 Key Issue for Secure RRC connection setup procedure**

*Type: pCR For: (not specified)  
 33.809 v0.17.1  
 Source: Nokia Corporation*

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

**S3-220364 Key Issue for Secure RRC connection setup procedure**

*Type: pCR For: (not specified)  
 33.809 v0.17.1  
 Source: Nokia Corporation*

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

**S3-220484 draft TR 33.809**

*Type: draft TR For: Approval  
 33.809 v0.18.0  
 Source: Apple Computer Trading Co. Ltd*

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

**S3-220490 Addressing the editor's notes in sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Huawei, HiSilicon, CableLabs*

(Replaces S3-220192)

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

**S3-220491 Addressing the editor's notes in sol#27**

*Type: pCR For: Approval  
 33.809 v0.17.0  
 Source: Huawei, HiSilicon, CableLabs*

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

### 5.2 Study on Security Impacts of Virtualisation

**S3-220062 New Solution: Confidentiality, and Integrity Protection for Container Images**

*Type: pCR For: Approval  
 33.848 v0.10.0  
 Source: MITRE Corporation*

**Abstract:**

Solution to protect confidentiality and integrity of the container image supply chain

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

**S3-220077 Updates to Terminology for Solution #5**

*Type: pCR For: Approval  
 33.848 v0.10.0  
 Source: Johns Hopkins University APL, US National Security Agency*

**Abstract:**

Correction of terminology

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

**S3-220078 Updates to Solution #5**

*Type: pCR For: Approval  
 33.848 v0.10.0  
 Source: Johns Hopkins University APL, US National Security Agency, CISA ECD, InterDigital*

**Abstract:**

Add signed NF Profile to support attestation verification during NF Registration

**Decision:** The document was **revised to S3-220588**.

**S3-220588 Updates to Solution #5**

*Type: pCR For: Approval  
 33.848 v0.10.0  
 Source: Johns Hopkins University APL, US National Security Agency, CISA ECD, InterDigital*

(Replaces S3-220078)

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

**S3-220513 Draft TR 33.848**

*Type: draft TR For: Agreement  
 33.848 v0.11.0  
 Source: BT plc*

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

### 5.3 Study on authentication enhancements in 5GS

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

**S3-220139 MEC - TR - Conclusion for KI#1 and KI#2.**

*Type: CR For: Approval  
 33.839 v17.0.0 CR-0001 Cat: B (Rel-17)  
  
 Source: Apple*

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

**S3-220140 MEC - TR - Authentication between EEC and ECS based on TLS-PSK**

*Type: CR For: Approval  
 33.839 v17.0.0 CR-0002 Cat: B (Rel-17)  
  
 Source: Apple*

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

**S3-220141 MEC - TR - Modification and Evaluation for solution#28**

*Type: CR For: Approval  
 33.839 v17.0.0 CR-0003 Cat: C (Rel-17)  
  
 Source: Apple*

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

**S3-220142 MEC - TR - Conclusion for key isolation issue**

*Type: CR For: Approval  
 33.839 v17.0.0 CR-0004 Cat: B (Rel-17)  
  
 Source: Apple*

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

**S3-220230 Clean up for TR 33.839**

*Type: CR For: Approval  
 33.839 v17.0.0 CR-0005 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

### 5.5 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS

**S3-220356 Updates Solution #43**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0009 Cat: C (Rel-17)  
  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-220555**.

**S3-220358 Resolve EN in solution #44**

*Type: CR For: Agreement  
 33.847 v17.0.1 CR-0010 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220081 Conclusion for NSSAA support with L3 U2N**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0002 Cat: F (Rel-17)  
  
 Source: InterDigital Finland Oy*

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

**S3-220159 Discussion on Secondary Authentication and NSSAA for Remote UE over L3 U2N relay without using N3IWF**

*Type: discussion For: Endorsement  
 Source: LG Electronics Inc., InterDigital, Xiaomi, Verizon Wireless, Samsung*

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

**S3-220160 Conclusion for Secondary Authentication support with L3 U2N Relay**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0003 Cat: F (Rel-17)  
  
 Source: LG Electronics Inc., InterDigital*

**Decision:** The document was **revised to S3-220450**.

**S3-220329 Additional conclusion of KI #17 – security policy**

*Type: CR For: Agreement  
 33.847 v17.0.1 CR-0004 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, CATT, InterDigital, Ericsson*

**Decision:** The document was **revised to S3-220483**.

**S3-220330 Update of conclusion for KI#5**

*Type: CR For: Agreement  
 33.847 v17.0.1 CR-0005 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-220331 Conclusion for KI#16 – privacy protection of PDU session-related parameters**

*Type: CR For: Agreement  
 33.847 v17.0.1 CR-0006 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-220355 Updates Key Issue #1**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0008 Cat: C (Rel-17)  
  
 Source: Philips International B.V.*

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

**S3-220359 Conclusion for user plane solutions for KI#3, KI#4, KI#9**

*Type: CR For: Agreement  
 33.847 v17.0.1 CR-0011 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-220379 TR 33.847 – Updates to Conclusions for KI 2 and KI 3**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0012 Cat: F (Rel-17)  
  
 Source: MITRE Corporation*

**Abstract:**

This contribution proposes updates to TR 33.847 conclusions for key issue #2: Keys in ProSe discovery scenario and key issue #3: Security of UE-to-Network Relay.

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

**S3-220439 TR 33.847 - Discussion on KI#5 conclusions**

*Type: discussion For: Discussion  
 Source: Philips International B.V.*

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

**S3-220440 TR 33.847 - Update to conclusions of KI#5**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0013 Cat: B (Rel-17)  
  
 Source: Philips International B.V.*

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

**S3-220450 Conclusion for Secondary Authentication support with L3 U2N Relay**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0003 rev 1 Cat: F (Rel-17)  
  
 Source: LG Electronics Inc., InterDigital*

(Replaces S3-220160)

**Discussion:**

it is noted that only Ericsson oppose this and suggest to solve the concern in plenary. The content could be seen as agreed and could be incorporate into the TR.

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

**S3-220483 Additional conclusion of KI #17 – security policy**

*Type: CR For: Agreement  
 33.847 v17.0.1 CR-0004 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, CATT, InterDigital, Ericsson*

(Replaces S3-220329)

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

**S3-220555 Updates Solution #43**

*Type: CR For: Approval  
 33.847 v17.0.1 CR-0009 rev 1 Cat: B (Rel-17)  
  
 Source: Philips International B.V.*

(Replaces S3-220356)

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

### 5.6 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services

### 5.7 Study on security aspects of the 5GMSG Service

**S3-220264 Editorial changes to TR 33.862**

*Type: CR For: Approval  
 33.862 v17.0.0 CR-0001 Cat: F (Rel-17)  
  
 Source: China Mobile*

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

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

### 5.9 Study on the security of AMF re-allocation

**S3-220412 LS on full Registration Request upon AMF re-allocation**

*Type: LS out For: Approval  
 to SA2, RAN3, cc CT1, CT4  
 Source: Ericsson*

**Decision:** The document was **revised to S3-220453**.

**S3-220453 LS on full Registration Request upon AMF re-allocation**

*Type: LS out For: Approval  
 to SA2, RAN3, cc CT1, CT4  
 Source: Ericsson*

(Replaces S3-220412)

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

### 5.10 Study on Security for NR Integrated Access and Backhaul

**S3-220296 Coversheet for TS 33.824**

*Type: TS or TR cover For: Approval  
 33.824 v0.9.0  
 Source: Samsung*

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

### 5.11 Study on enhanced Security Aspects of the 5G Service Based Architecture

**S3-220287 Evaluation and Conclusion for Key Issue#9**

*Type: pCR For: Approval  
 33.875 v1.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-220498**.

**S3-220389 New KI on N32 security in Roaming Hub scenarios**

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

**Decision:** The document was **revised to S3-220511**.

**S3-220390 Resolution EN authorization method negotiation per KI7-Sol9**

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

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

**S3-220391 New sol. for KI7 on authorization mechanism negotiation**

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

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

**S3-220409 Resolution EN on NF Set per KI6-Sol7**

*Type: pCR For: (not specified)  
 33.875 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220438 New KI for Authentication of PLMNs over IPX**

*Type: pCR For: Approval  
 33.875 v1.0.0  
 Source: CableLabs*

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

**S3-220498 Evaluation and Conclusion for Key Issue#9**

*Type: pCR For: Approval  
 33.875 v1.0.0  
 Source: Samsung*

(Replaces S3-220287)

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

**S3-220511 New KI on N32 security in Roaming Hub scenarios**

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

(Replaces S3-220389)

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

**S3-220512 Draft TR 33.875**

*Type: draft TR For: (not specified)  
 33.875 v1.1.0  
 Source: Nokia Germany*

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

### 5.12 Study on enhanced security for network slicing Phase 2

**S3-220115 conclusion for KI#1**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220485**.

**S3-220116 updates to KI#2**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-220486**.

**S3-220199 eNS2: Key Issue #2 update**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Xiaomi Communications*

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

**S3-220200 eNS2: Key Issue #2 update**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Xiaomi Communications*

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

**S3-220226 eNS2\_Solution #1Update**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Xiaomi Communications*

**Decision:** The document was **revised to S3-220492**.

**S3-220485 conclusion for KI#1**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-220115)

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

**S3-220486 updates to KI#2**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Huawei, HiSilicon, Xiaomi*

(Replaces S3-220116)

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

**S3-220487 draft TR 33.874-060 for eNS2**

*Type: draft TR For: (not specified)  
 33.874 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-220492 eNS2\_Solution #1Update**

*Type: pCR For: Approval  
 33.874 v0.5.0  
 Source: Xiaomi Communications*

(Replaces S3-220226)

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

### 5.13 Study on non-seamless WLAN Offload in 5GS using 3GPP credentials

**S3-220021 Reply LS on proposed NSWO architecture**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107859*

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

**S3-220042 Addressing several issue from MCC and EditHelp for TR 33.811**

*Type: CR For: Approval  
 33.881 v17.0.0 CR-0001 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

### 5.14 Study on privacy of identifiers over radio access

**S3-220044 TR 33.870 - Skeleton**

*Type: draft TR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new skeleton for TR 33.870, Study of privacy of identifiers over radio access

**Decision:** The document was **revised to S3-220514**.

**S3-220055 TR 33.870 - Scope**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes Scope for TR 33.870, Study of privacy of identifiers over radio access.

**Decision:** The document was **revised to S3-220515**.

**S3-220058 TR 33.870 - References**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes References for TR 33.870, Study of privacy of identifiers over radio access.

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

**S3-220060 TR 33.870 - Abbreviations**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes Abbreviations for TR 33.870, Study of privacy of identifiers over radio access.

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

**S3-220068 TR 33.870 – Informative Annex Y**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes Informative Annex Y for TR 33.870, Study of privacy of identifiers over radio access.

**Decision:** The document was **revised to S3-220516**.

**S3-220073 New key issue on SUPI length disclosed by SUCI**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: Ericsson LM*

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

**S3-220057 TR 33.870 – New KI #Y – Protection of SUPI in NAI format**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI #Y – Protection of SUPI in NAI format for TR 33.870, Study of privacy of identifiers over radio access.

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

**S3-220108 New KI privacy protection of SUCI**

*Type: other For: Approval  
 Source: China Southern Power Grid Co., Ltd, ZTE Corporation*

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

**S3-220514 TR 33.870 - Skeleton**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

(Replaces S3-220044)

**Abstract:**

This contribution proposes a new skeleton for TR 33.870, Study of privacy of identifiers over radio access. It is revised TDOC S3-220044-r1 approved during the meeting.

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

**S3-220515 TR 33.870 - Scope**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

(Replaces S3-220055)

**Abstract:**

This contribution proposes Scope for TR 33.870, Study of privacy of identifiers over radio access. It is revised from S3-220055-r2 approved at the meeting.

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

**S3-220516 TR 33.870 – Informative Annex Y**

*Type: pCR For: Approval  
 33.870 v0.0.1  
 Source: InterDigital, Inc.*

(Replaces S3-220068)

**Abstract:**

This contribution proposes Informative Annex Y for TR 33.870, Study of privacy of identifiers over radio access. It represents S3-220068-r5 revised and approved during the meeting.

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

**S3-220517 Draft TR 33.870**

*Type: draft TR For: Approval  
 33.870 v0.1.0  
 Source: InterDigital, Inc.*

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

### 5.15 Study on Standardising Automated Certificate Management in SBA

**S3-220237 New Key issue on automated certificate management for SBA NF**

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

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

**S3-220339 Scope for Automated Certificate Management in SBA TR**

*Type: pCR For: (not specified)  
 33.876 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220451**.

**S3-220354 Introduction for Automated Certificate Management in SBA TR**

*Type: pCR For: Approval  
 33.876 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-220452**.

**S3-220381 Skeleton for Automated Certificate Management in SBA TR**

*Type: pCR For: Approval  
 33.876 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-220451 Scope for Automated Certificate Management in SBA TR**

*Type: pCR For: (not specified)  
 33.876 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220339)

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

**S3-220452 Introduction for Automated Certificate Management in SBA TR**

*Type: pCR For: Approval  
 33.876 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-220354)

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

**S3-220504 Draft TR 33.876 Study on Automated Certificate Mangement in SBA**

*Type: draft TR For: (not specified)  
 33.876 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

## 6 CVD and research

## 7 Any Other Business

**S3-220525 SA3 meeting calendar**

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

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-220001 | Agenda | SA WG3 Chair | approved |  |  |
| S3-220002 | Report from SA3#105e | MCC | approved |  |  |
| S3-220003 | Process for SA3#106e meeting | SA WG3 Chair | noted |  |  |
| S3-220004 | Report from last SA | SA WG3 Chair | noted |  |  |
| S3-220005 | Meeting notes from SA3 leadership | SA WG3 Chair | withdrawn |  |  |
| S3-220006 | Meeting notes from SA3 leadership | MCC | reserved |  |  |
| S3-220007 | LS on new parameters for SOR | C1-214118 | postponed |  |  |
| S3-220008 | LS on Using CP-SOR as a secured information transfer mechanism between HPLMN and UE | C1-217163 | noted |  |  |
| S3-220009 | LS on the User Controlled PLMN Selector with Access Technology in Control plane solution for steering of roaming in 5GS | C1-217358 | noted |  |  |
| S3-220010 | [FSAG Doc 92\_003] Reply LS on attack preventing NAS procedures to succeed | C1-217378 | noted |  |  |
| S3-220011 | LS on Disaster Roaming Enabled Indication | C1-217427 | noted |  |  |
| S3-220012 | LS-Reply on Home Network triggered re-authentication | C4-215437 | noted |  |  |
| S3-220013 | LS for feedback on CT6’s study item related to network slice-specific authentication and authorization (NSSAA) | C6-210358 | replied to |  |  |
| S3-220014 | Reply LS on RAN2 agreements for MUSIM | R2-2111329 | noted |  |  |
| S3-220015 | LS on RAN2 agreements for paging with service indication | R2-2111330 | noted |  |  |
| S3-220016 | Reply LS on UP security policy update | R2-2111527 | noted |  |  |
| S3-220017 | Reply to LS on support of PWS over SNPN | S1-214049 | noted |  |  |
| S3-220018 | Reply LS on 3GPP SA1 clarifications on problematic UAV | S1-214238 | noted |  |  |
| S3-220019 | Reply LS on UE capabilities indication in UPU | S2-2106703 | noted |  |  |
| S3-220020 | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | noted |  |  |
| S3-220021 | Reply LS on proposed NSWO architecture | S2-2107859 | noted |  |  |
| S3-220022 | LS on Multicast paging with TMGI | S2-2107995 | replied to |  |  |
| S3-220023 | Reply LS on user consent | S2-2109089 | noted |  |  |
| S3-220024 | LS on support of DCS variants in UE Onboarding Architecture | S2-2109258 | replied to |  |  |
| S3-220025 | Reply LS on Using N32 for Interconnect Scenarios | S2-2109334 | noted |  |  |
| S3-220026 | Reply to LS on Resynchronisations | ETSI SAGE | replied to |  |  |
| S3-220027 | Reply LS to CT3 Questions and Feedback on EVEX | S4-211647 | noted |  |  |
| S3-220028 | LS Reply on QoE report handling at QoE pause | S5- 216417 | noted |  |  |
| S3-220029 | Reply LS on EAS and ECS identifiers | S6-212490 | noted |  |  |
| S3-220030 | Non-Support of Ciphering Algorithm GEA1 | GCF | replied to |  |  |
| S3-220031 | New Name for ETSI TC SCP | ETSI TC SCP | noted |  |  |
| S3-220032 | LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation" | ITU-T SG2 | noted |  |  |
| S3-220033 | LS on Energy Efficiency as guiding principle for new solutions | SP-211621 | noted |  |  |
| S3-220034 | Reply LS to GSMA Operator Platform Group on edge computing definition and integration | SP-210003 | noted |  |  |
| S3-220035 | Reply LS on IMEI for Non-Public Networks/Private Networks without using USIM | GSMA | noted |  |  |
| S3-220036 | Reply LS on UE capabilities indication in UPU | C1-220811 | replied to |  |  |
| S3-220037 | Reply on security protection of RRCResumeRequest message | R3-221183 | noted |  |  |
| S3-220038 | LS on opens issues for NB-IoT and eMTC support for NTN | R3-221406 | replied to |  |  |
| S3-220039 | Reply LS on LTE User Plane Integrity Protection | R3-221473 | replied to |  |  |
| S3-220040 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | noted |  |  |
| S3-220041 | LS on User consent Updating | R3-221210 | replied to |  |  |
| S3-220042 | Addressing several issue from MCC and EditHelp for TR 33.811 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-220043 | Reply LS on energy efficiency as guiding principle for new solutions | S5-221501 | noted |  |  |
| S3-220044 | TR 33.870 - Skeleton | InterDigital, Inc. | revised |  | S3-220514 |
| S3-220045 | Reply LS on NTN specific User Consent | R2-2201754 | postponed |  |  |
| S3-220046 | Further reply on QoE report handling at QoE pause | R2-2201862 | noted |  |  |
| S3-220047 | Reply LS on security protection of RRCResumeRequest message | R2-2201864 | noted |  |  |
| S3-220048 | LS on UE providing Location Information for NB-IoT | R2-2201957 | noted |  |  |
| S3-220049 | LS on security concerns for UE providing Location Information for NB-IoT | R2-2201958 | replied to |  |  |
| S3-220050 | LS on RAN3 impacts for non-SDT handling | R2-2201977 | noted |  |  |
| S3-220051 | LS on Security for Small Data Transmission | R2-2201983 | replied to |  |  |
| S3-220052 | LS on UE location during initial access in NTN | R2-2202057 | withdrawn |  |  |
| S3-220053 | LS on UE location during initial access in NTN | R2-2201881 | noted |  |  |
| S3-220054 | LS to 3GPP on Identification of source PLMN-ID in SBA | GSMA | postponed |  |  |
| S3-220055 | TR 33.870 - Scope | InterDigital, Inc. | revised |  | S3-220515 |
| S3-220056 | [33.180] R18 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | withdrawn |  |  |
| S3-220057 | TR 33.870 – New KI #Y – Protection of SUPI in NAI format | InterDigital, Inc. | noted |  |  |
| S3-220058 | TR 33.870 - References | InterDigital, Inc. | noted |  |  |
| S3-220059 | New WID on Authentication enhancements in 5GS | JSRPC Kryptonite | noted |  |  |
| S3-220060 | TR 33.870 - Abbreviations | InterDigital, Inc. | noted |  |  |
| S3-220061 | Align GUTI allocation to best practices of unpredictable identifier generation. | Deutsche Telekom AG | revised |  | S3-220455 |
| S3-220062 | New Solution: Confidentiality, and Integrity Protection for Container Images | MITRE Corporation | noted |  |  |
| S3-220063 | TR 33.847 Updates to conclusions for KI 2 and KI 3 | MITRE Corporation | withdrawn |  |  |
| S3-220064 | OAuth2.0 misalignmnet | Mavenir | withdrawn |  |  |
| S3-220065 | OAuth2.0 misalignmnet | Mavenir | withdrawn |  |  |
| S3-220066 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | revised |  | S3-220465 |
| S3-220067 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | revised |  | S3-220466 |
| S3-220068 | TR 33.870 – Informative Annex Y | InterDigital, Inc. | revised |  | S3-220516 |
| S3-220069 | [33.180] R16 Clarification requested by ETSI Plugtest | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-220070 | [33.180] R17 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-220071 | [33.180] R18 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | not pursued |  |  |
| S3-220072 | Provisioning and refresh of 5G ProSe long-term credentials | KPN N.V. | noted |  |  |
| S3-220073 | New key issue on SUPI length disclosed by SUCI | Ericsson LM | noted |  |  |
| S3-220074 | Discussion paper on provisioning and refresh of 5G ProSe long-term credentials | KPN N.V. | noted |  |  |
| S3-220075 | GUTI allocation discussion paper | Deutsche Telekom AG | noted |  |  |
| S3-220076 | Update to UUAA-MM procedure | InterDigital Finland Oy, Lenovo, Motorola Mobility | approved |  |  |
| S3-220077 | Updates to Terminology for Solution #5 | Johns Hopkins University APL, US National Security Agency | approved |  |  |
| S3-220078 | Updates to Solution #5 | Johns Hopkins University APL, US National Security Agency, CISA ECD, InterDigital | revised |  | S3-220588 |
| S3-220079 | Update to U2N Security procedure over User Plane when using GBA Push | InterDigital Finland Oy | noted |  |  |
| S3-220080 | NSSAA for Remote UE with L3 U2N relay without N3IWF | InterDigital Finland Oy | noted |  |  |
| S3-220081 | Conclusion for NSSAA support with L3 U2N | InterDigital Finland Oy | not pursued |  |  |
| S3-220082 | Integrity check during context transfer scenario 2 | NEC Telecom MODUS Ltd. | not pursued | S3-213991 |  |
| S3-220083 | Editor note removal from Annex S | Nokia, Nokia Shanghai Bell | revised |  | S3-220467 |
| S3-220084 | Verification of NSSAIs for preventing slice attack | CableLabs | not pursued |  | - |
| S3-220085 | Reply LS on Security for Small Data Transmission | ZTE Corporation | noted |  |  |
| S3-220086 | Discussion on security of SDT | ZTE Corporation | noted |  |  |
| S3-220087 | Add a Note about the Kaf refresh | ZTE Corporation | revised |  | S3-220556 |
| S3-220088 | Add function description about AAnF in 4.2.1 | ZTE Corporation | agreed |  |  |
| S3-220089 | Clarification on the NF consumer in 6.6.1 | ZTE Corporation | not pursued |  |  |
| S3-220090 | Clarification on UDM manage AKMA subscription data in 4.2.5 | ZTE Corporation | not pursued |  |  |
| S3-220091 | Resolve the EN in 5MBS | ZTE Corporation | merged |  | S3-220535 |
| S3-220092 | Clean up for 5MBS | ZTE Corporation | merged |  | S3-220536 |
| S3-220093 | Authentication based on AKMA between EEC and ECS in clause 6.2 | ZTE Corporation | merged |  | S3-220553 |
| S3-220094 | Authentication based on AKMA between EEC and EES in clause 6.3 | ZTE Corporation | merged |  | S3-220554 |
| S3-220095 | Add description about error case in annex B | ZTE Corporation | not pursued |  |  |
| S3-220096 | Add a clause about key hierarchy for user plane | ZTE Corporation | revised |  | S3-220557 |
| S3-220097 | Add an EN in clause 6.3.3.2.2 | ZTE Corporation | revised |  | S3-220558 |
| S3-220098 | Add some abbrevations for Prose | ZTE Corporation | approved |  |  |
| S3-220099 | Clarficaiton on PKMF act as AKMA AF in clause 6.3.3.2.2 | ZTE Corporation | revised |  | S3-220559 |
| S3-220100 | Clarification on AUSF instance store in UDM | ZTE Corporation | merged |  | S3-220572 |
| S3-220101 | Clean up the step 10-14 in clause 6.3.3.3.2 | ZTE Corporation | approved |  |  |
| S3-220102 | CR to 33.501 about AUSF instance store in UDM | ZTE Corporation | not pursued |  |  |
| S3-220103 | Update the PC5 key hierarchy over control plane | ZTE Corporation | merged |  | S3-220572 |
| S3-220104 | Update the step 2-5 in clause 6.3.3.3.2 | ZTE Corporation | merged |  | S3-220572 |
| S3-220105 | Discussion on new wid on akma push function | ZTE Corporation | noted |  |  |
| S3-220106 | New WID on AKMA push function | ZTE Corporation | noted |  |  |
| S3-220107 | Delete EN on defining EIA7 in clause 6.6.4.3 | ZTE Corporation | agreed |  |  |
| S3-220108 | New KI privacy protection of SUCI | China Southern Power Grid Co., Ltd, ZTE Corporation | noted |  |  |
| S3-220109 | Verification of NSSAIs for preventing slice attack | CableLabs | not pursued |  |  |
| S3-220110 | LS out on authenticity and replay protection of system information | CableLabs | noted |  |  |
| S3-220111 | Update to solution #25 | Huawei, HiSilicon | noted |  |  |
| S3-220112 | Evaluation of solution #4 | Huawei, HiSilicon | noted |  |  |
| S3-220113 | Conclusion for KI#3 | Huawei, HiSilicon | noted |  |  |
| S3-220114 | CR for AF Authorization for accessing network slice quota-usage information | Huawei, HiSilicon | revised |  | S3-220530 |
| S3-220115 | conclusion for KI#1 | Huawei, HiSilicon | revised |  | S3-220485 |
| S3-220116 | updates to KI#2 | Huawei, HiSilicon | revised |  | S3-220486 |
| S3-220117 | Serving network name in NSSAA | Huawei, HiSilicon | not pursued |  |  |
| S3-220118 | Rel-18 study for network slicing security | Huawei, HiSilicon | noted |  |  |
| S3-220119 | security between UAS-NF and USS | Huawei, HiSilicon | merged |  | S3-220575 |
| S3-220120 | remove EN in 5.2.1.5 UUAA revocation | Huawei, HiSilicon | noted |  |  |
| S3-220121 | proposal to add scope of TR33.936 Security Assurance Methodology (SECAM) for 3GPP virtualized network products | China Mobile | approved |  |  |
| S3-220122 | proposal to add skeleton of TR33.936 Security Assurance Methodology (SECAM) for 3GPP virtualized network products | China Mobile | approved |  |  |
| S3-220123 | proposal to add scope of TR33.927 Security Assurance Specification (SCAS) threats and critical assets in 3GPP virtualized network product classes | China Mobile | approved |  |  |
| S3-220124 | proposal to add skeleton of TR33.927 Security Assurance Specification (SCAS) threats and critical assets in 3GPP virtualized network product classes | China Mobile | approved |  |  |
| S3-220125 | proposal to add scope of TS33.527 Security Assurance Specification (SCAS) for 3GPP virtualized network products | China Mobile | approved |  |  |
| S3-220126 | proposal to add skeleton of TS33.527 Security Assurance Specification (SCAS) for 3GPP virtualized network products | China Mobile | approved |  |  |
| S3-220127 | Proposal about considerations to introduce security capability center function | China Mobile | noted |  |  |
| S3-220128 | Discussion on blockchain based approach for cross-domain certificate management in 3GPP system | China Mobile | noted |  |  |
| S3-220129 | New SID on blockchain based approach for cross-domain certification management in 3GPP system | China Mobile | noted |  |  |
| S3-220130 | New SID on security aspects of enablers for Network Automation for 5G - phase 3 | China Mobile, ZTE, Ericsson, Apple, China Unicom, CAICT, China Telecom, Cablelabs, Nokia, Nokia Shanghai Bell, CATT | revised |  | S3-220563 |
| S3-220131 | Address the EN on the UE-to-Network Relay security procedure over control plane | OPPO | noted |  |  |
| S3-220132 | Discussion on Personal IoT Networks Security Aspects | vivo | noted |  |  |
| S3-220133 | New SID on Personal IoT Networks Security Aspects | vivo, Apple, ZTE, Xiaomi, CATT, OPPO, China Unicom, China Telecom, CableLabs, InterDigital | noted |  |  |
| S3-220134 | 5GFBS-Conclusion for solution#17 | Apple | noted |  |  |
| S3-220135 | 5GFBS- Draft LS to RAN plenary on the conlcusion of solution#17 | Apple | noted |  |  |
| S3-220136 | 5GFBS- new WID on 5GFBS | Apple, US National Security Agency, AT&T, Deutsche Telekom, Ericsson, Huawei, Hisilicon, CableLabs, Intel, InterDigital, Johns Hopkins University APL, NIST, Xiaomi, OPPO | noted |  |  |
| S3-220137 | MEC - TS - Negotiation procedure for the authentication and authorization | Apple | merged |  | S3-220553 |
| S3-220138 | MEC - TS - Authentication between EEC and ECS based on TLS-PSK | Apple | noted |  |  |
| S3-220139 | MEC - TR - Conclusion for KI#1 and KI#2. | Apple | not pursued |  |  |
| S3-220140 | MEC - TR - Authentication between EEC and ECS based on TLS-PSK | Apple | not pursued |  |  |
| S3-220141 | MEC - TR - Modification and Evaluation for solution#28 | Apple | not pursued |  |  |
| S3-220142 | MEC - TR - Conclusion for key isolation issue | Apple | not pursued |  |  |
| S3-220143 | NTN - Reply LS on NTN specific user consent (R2-2201754) | Apple | noted |  |  |
| S3-220144 | NTN - Reply LS on NTN specific user consent (R2-2201958) | Apple | merged |  | S3-220544 |
| S3-220145 | CR - 33501 - Clarification on Fast re-authentication | Apple | not pursued |  |  |
| S3-220146 | Discussion on selection between options on Edge | OPPO | noted |  |  |
| S3-220147 | Remove the EN on privacy of PRUK ID | ZTE Corporation | noted |  |  |
| S3-220148 | New solution: Authentication algorithm selection between EEC and ECS, EEC and EES | OPPO | merged |  | S3-220553 |
| S3-220149 | Discussion paper on SCAS for 3GPP defined Management Function | Nokia Germany | noted |  |  |
| S3-220150 | Revise generic network product to support management function | Nokia Germany | not pursued |  | - |
| S3-220151 | Discussion on Security Issues with SDT | Intel | noted |  |  |
| S3-220152 | Reply LS on Security of Small data transmission | Intel | revised |  | S3-220463 |
| S3-220153 | add annex for aspects specific to MnF network product class | Nokia Germany | not pursued |  | - |
| S3-220154 | MEC-TS-Enhanced Authentication between EEC and ECS based on TLS-PSK addressing the key diversity issue | Apple Computer Trading Co. Ltd | noted |  |  |
| S3-220155 | Clarifcation and corrections to UE Onboarding in SNPNs | Intel | merged |  | S3-220471 |
| S3-220156 | Clarification and corrections to NSWO SBI Interface methods | Intel | revised |  | S3-220481 |
| S3-220157 | Corrections to EDGE reference and editorials | Intel | approved |  |  |
| S3-220158 | Removal of EN related to identifiers for EES and ECS authentication and authorization. | Intel | revised |  | S3-220482 |
| S3-220159 | Discussion on Secondary Authentication and NSSAA for Remote UE over L3 U2N relay without using N3IWF | LG Electronics Inc., InterDigital, Xiaomi, Verizon Wireless, Samsung | noted |  |  |
| S3-220160 | Conclusion for Secondary Authentication support with L3 U2N Relay | LG Electronics Inc., InterDigital | revised |  | S3-220450 |
| S3-220161 | Procedure for secondary authentication without N3IWF | LG Electronics Inc., InterDigital | revised |  | S3-220527 |
| S3-220162 | Resolution of authorization issue | Huawei, HiSilicon | revised |  | S3-220535 |
| S3-220163 | update to User-plane procedure for MBS security | Huawei, HiSilicon | not pursued |  |  |
| S3-220164 | Corrections and clarifications in the security mechanisms for MBS | Huawei, HiSilicon | revised |  | S3-220536 |
| S3-220165 | Reply LS on Multicast paging with TMGI | Huawei, HiSilicon | revised |  | S3-220537 |
| S3-220166 | New SID on security enhancements for 5G multicast-broadcast services Phase 2 | Huawei, HiSilicon | noted |  |  |
| S3-220167 | Discussion on security enhancements for 5GC LoCation Services Phase 3 | Huawei, HiSilicon | noted |  |  |
| S3-220168 | New SID on Enhancement of User Consent for 3GPP Services | Huawei, HiSilicon | noted |  |  |
| S3-220169 | New WID for SCAS work to introduce R-17 features on existing functions | Huawei, HiSilicon | agreed |  |  |
| S3-220170 | New SID on Home network triggerred authenticaiton | Huawei, HiSilicon | revised |  | S3-220538 |
| S3-220171 | Delete Editor's Note in NSWO | Huawei, HiSilicon | merged |  | S3-220481 |
| S3-220172 | MnF SCAS Skeleton | Huawei, HiSilicon | approved |  |  |
| S3-220173 | MnF SCAS Scope | Huawei, HiSilicon | revised |  | S3-220534 |
| S3-220174 | Report UP IP Security Result | Huawei, HiSilicon | not pursued |  |  |
| S3-220175 | User consent requirements and procedures for eNA | Huawei, HiSilicon | not pursued |  |  |
| S3-220176 | Refer to User consent Requirements for MEC | Huawei, HiSilicon | revised |  | S3-220488 |
| S3-220177 | Delete Editor's Note in UC3S | Huawei, HiSilicon | revised |  | S3-220489 |
| S3-220178 | Clean up for TR 33.867 | Huawei, HiSilicon | agreed |  |  |
| S3-220179 | Clarification the security policy used during restricted discovery | Huawei, HiSilicon | merged |  | S3-220546 |
| S3-220180 | Security procedures for L2 UE-to-Network relay | Huawei, HiSilicon | revised |  | S3-220539 |
| S3-220181 | Resolve EN about USS Identifier | Huawei, HiSilicon | merged |  | S3-220575 |
| S3-220182 | Resolving the ENs on authentication procedure in control plane security procedure | Huawei, HiSilicon | merged |  | S3-220572 |
| S3-220183 | Resolving the EN on the usage of 5GPRUK ID | Huawei, HiSilicon | noted |  |  |
| S3-220184 | Secondary authentication for MBS sessions | Huawei, HiSilicon | not pursued |  |  |
| S3-220185 | Clarification on procedures for PC5 establishment in UE-to-Network relay scenario | Huawei, HiSilicon | approved |  |  |
| S3-220186 | Living document for MnF SCAS: draftCR to TR 33.926 | Huawei, HiSilicon | revised |  | S3-220570 |
| S3-220187 | User Consent Requirements and Procedures for MEC | Huawei, HiSilicon | not pursued |  |  |
| S3-220188 | Clarification on MSK and anonymous SUPI usage | Huawei, HiSilicon | not pursued |  |  |
| S3-220189 | Reply LS | Huawei, HiSilicon | withdrawn |  |  |
| S3-220190 | Reply LS on user consent for NTN | Huawei, HiSilicon | noted |  |  |
| S3-220191 | Refer to User Consent Requirements for eNA | Huawei, HiSilicon | revised |  | S3-220540 |
| S3-220192 | addressing the editor's notes in sol#27 | Huawei, HiSilicon, CableLabs | revised |  | S3-220490 |
| S3-220193 | Resolution of editor’s note related to NSSAAF and AUSF selection | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-220194 | Resolution of editor notes related SUPI usage and forwarding | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-220195 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-220196 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-220197 | REPLY LS on support of DCS variants in UE Onboarding Architecture | Nokia, Nokia Shanghai Bell | revised |  | S3-220493 |
| S3-220198 | Procedure for secondary re-authentication and revocation of Remote UE over L3 U2N Relay without N3IWF | LG Electronics Inc., InterDigital | noted |  |  |
| S3-220199 | eNS2: Key Issue #2 update | Xiaomi Communications | withdrawn |  |  |
| S3-220200 | eNS2: Key Issue #2 update | Xiaomi Communications | merged |  | S3-220486 |
| S3-220201 | Reply LS on CT6’s study item related to NSSAA | THALES | merged |  | S3-220470 |
| S3-220202 | EAP ID Request in NSSAA procedure | Ericsson | noted |  |  |
| S3-220203 | Authentication and authorization between EEC and ECS | THALES | noted |  |  |
| S3-220204 | EAP ID Request in NSSAA Procedure (Rel-16) | Ericsson | not pursued |  |  |
| S3-220205 | Authentication and authoriation between EEC and EES | THALES | merged |  | S3-220554 |
| S3-220206 | New SID on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 2 | CATT, China Unicom, Interdigital | revised |  | S3-220586 |
| S3-220207 | EAP ID Request in NSSAA Procedure (Rel-17) | Ericsson | not pursued |  |  |
| S3-220208 | pCR to TS33.503 Clause 3 Definitions of terms and abbreviations | CATT | approved |  |  |
| S3-220209 | pCR to TS33.503 Clause 4.2 Add new reference point between PKMF and UDM | CATT | revised |  | S3-220564 |
| S3-220210 | pCR to TS33.503 Clause 6.3 Support SUCI in security procedure over User Plane | CATT | revised |  | S3-220565 |
| S3-220211 | pCR to TS33.503 Clause 6.3 Update security procedure over Control Plane | CATT | merged |  | S3-220572 |
| S3-220212 | LS on EAP ID Request in NSSAA Procedure | Ericsson | noted |  |  |
| S3-220213 | pCR to TS33.503 Consistent term usage | CATT | approved |  |  |
| S3-220214 | New WID on Security Aspects of Minimization of Service Interruption (MINT) | LG Electronics Inc. | agreed |  |  |
| S3-220215 | UDM interaction for anonymous SUCI | Ericsson | not pursued |  |  |
| S3-220216 | Discussion integrity protection for UE capability indication in UPU | Ericsson | noted |  |  |
| S3-220217 | Draft reply LS on UE capability indication in UPU | Ericsson | revised |  | S3-220469 |
| S3-220218 | Anonymous SUCI for initial access | Ericsson | not pursued |  |  |
| S3-220219 | Removing Editor’s note on SUPI for initial access for onboarding | Ericsson | not pursued |  |  |
| S3-220220 | Removing Editor’s note on SUPI sent to AAA | Ericsson | revised |  | S3-220461 |
| S3-220221 | Removing Editor’s note on AAA interface | Ericsson | merged |  | S3-220497 |
| S3-220222 | Rel-17 SUPI Privacy for SNPN | Ericsson | not pursued |  |  |
| S3-220223 | Rel-16 SUPI Privacy for SNPN | Ericsson | not pursued |  |  |
| S3-220224 | Rel-17 security aspects on MINT feature | LG Electronics Inc. | agreed |  |  |
| S3-220225 | Clarification on AS security aspect in 5MBS | LG Electronics Inc. | revised |  | S3-220519 |
| S3-220226 | eNS2\_Solution #1Update | Xiaomi Communications | revised |  | S3-220492 |
| S3-220227 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501 | LG Electronics Inc. | revised |  | S3-220447 |
| S3-220228 | R18 SID on Security Enhancement of support for Edge Computing — phase 2 | Huawei, HiSilicon | revised |  | S3-220584 |
| S3-220229 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung | not pursued |  |  |
| S3-220230 | Clean up for TR 33.839 | Huawei, HiSilicon | agreed |  |  |
| S3-220231 | EC: Authentication and Authorization between EEC and ECS | Huawei, HiSilicon | merged |  | S3-220553 |
| S3-220232 | EC: Authentication and Authorization between EEC and EES | Huawei, HiSilicon | merged |  | S3-220554 |
| S3-220233 | Clarification on IV usage on N32-f protection-R15 | Huawei, HiSilicon | not pursued |  |  |
| S3-220234 | Clarification on IV usage on N32-f protection-R16 | Huawei, HiSilicon | not pursued |  |  |
| S3-220235 | Clarification on IV usage on N32-f protection-R17 | Huawei, HiSilicon | not pursued |  |  |
| S3-220236 | Clarification on origination of the Rel17 SCAS test cases in AMF | Huawei, Hisilicon | revised |  | S3-220503 |
| S3-220237 | New Key issue on automated certificate management for SBA NF | Huawei, Hisilicon | noted |  |  |
| S3-220238 | Discussion on UE capabilities indication in UPU | Huawei, HiSilicon | noted |  |  |
| S3-220239 | DP-loss of control of preferred SNPN list in eNPN | Huawei, HiSilicon | noted |  |  |
| S3-220240 | SN name verification in eNPN | Huawei, HiSilicon | not pursued |  |  |
| S3-220241 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | revised |  | S3-220475 |
| S3-220242 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | revised |  | S3-220476 |
| S3-220243 | Clarification on the certificate profile for SCP and SEPP | Ericsson, Nokia, Nokia Shanghai Bell | revised |  | S3-220477 |
| S3-220244 | Multiple PLMN-IDs in the SEPP interconnect certificate profile | Ericsson | revised |  | S3-220478 |
| S3-220245 | SEPP to include and verify the source PLMN-ID | Ericsson | revised |  | S3-220479 |
| S3-220246 | Resolving Editor's Notes in "SEPP to include and verify the source PLMN-ID" | Ericsson | revised |  | S3-220480 |
| S3-220247 | Further alignment with TS 29.573 to clarify that N32-c is short-lived | Ericsson | merged |  | S3-220590 |
| S3-220248 | Further alignment with TS 29.573 to clarify that N32-c is short-lived | Ericsson | merged |  | S3-220591 |
| S3-220249 | Editorials suggested by Edithelp | Ericsson | agreed |  |  |
| S3-220250 | Removing Editor's Note on PNi-NPN security aspects | Ericsson | agreed |  |  |
| S3-220251 | Removing Editor's Note on PNi-NPN security aspects | Ericsson | agreed |  |  |
| S3-220252 | New SID on security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson, CableLabs, InterDigital, Intel, Xiaomi, Nokia, Nokia Shanghai Bell, ZTE | noted |  |  |
| S3-220253 | Removing Editor’s note on using only null-scheme SUCI | Ericsson | not pursued |  |  |
| S3-220254 | Removing Editor’s notes on AUSF selection and alignment with TS 23.501 | Ericsson | merged |  | S3-220495 |
| S3-220255 | Removing Editor’s note on Credentials Holder using AUSF and UDM for primary authentication | Ericsson | agreed |  |  |
| S3-220256 | Removing Editor’s note on additional requirements for primary authentication for onboarding. | Ericsson | not pursued |  |  |
| S3-220257 | Editorial for the Figure on key hierarchy for Credentials Holder using AAA | Ericsson | agreed |  |  |
| S3-220258 | Rel-15 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501 | Ericsson | agreed |  |  |
| S3-220259 | Rel-16 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501 | Ericsson | agreed |  |  |
| S3-220260 | Rel-17 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501 | Ericsson | agreed |  |  |
| S3-220261 | Discussion on the SBA service operations to support NSWO authentication | Ericsson, Thales | noted |  |  |
| S3-220262 | New SID on enhancement of AKMA | China Mobile | revised |  | S3-220531 |
| S3-220263 | New WID on SCAS for AAnF | China Mobile | revised |  | S3-220532 |
| S3-220264 | Editorial changes to TR 33.862 | China Mobile | agreed |  |  |
| S3-220265 | Removal of EN in 5GMSG security | China Mobile | not pursued |  |  |
| S3-220266 | Update of NSWO authentication procedure and SBA service operations | Ericsson, Thales | not pursued |  |  |
| S3-220267 | Resolve Editor Note related to co-existence of EPS NSWO | Ericsson | merged |  | S3-220472 |
| S3-220268 | Roaming for 5G NSWO | Ericsson | merged |  | S3-220473 |
| S3-220269 | Reply LS on opens issues for NB-IoT and eMTC support for NTN | Xiaomi Technology | revised |  | S3-220543 |
| S3-220270 | Reply LS on User Consent Updating | Xiaomi Technology | revised |  | S3-220474 |
| S3-220271 | Reply LS on NTN specific User Consent | Xiaomi Technology | noted |  |  |
| S3-220272 | Proposal for NTN Specific User Consent | Xiaomi Technology | noted |  |  |
| S3-220273 | Reply LS on security concerns for UE providing Location Information for NB-IoT | Xiaomi Technology | revised |  | S3-220544 |
| S3-220274 | 33.503: Corrections for Network Domain Security | Xiaomi Technology | revised |  | S3-220545 |
| S3-220275 | 33.503: Issues for Clarifiacation in Open Discovery | Xiaomi Technology | noted |  |  |
| S3-220276 | 33.503: Proposed Changes in Model A Discovery | Xiaomi Technology | revised |  | S3-220546 |
| S3-220277 | 33.503: Proposed Changes in Model B Discovery | Xiaomi Technology | revised |  | S3-220547 |
| S3-220278 | 33.503: PC5 Security Policy Privisioned by PKMF | Xiaomi Technology | revised |  | S3-220548 |
| S3-220279 | 33.503: PC5 Security Policy Handling during CP-based Security Procedure | Xiaomi Technology | approved |  |  |
| S3-220280 | 33.503: PC5 Security Policy for L2 U2N Relay | Xiaomi Technology | revised |  | S3-220549 |
| S3-220281 | New SID on Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi Technology | noted |  |  |
| S3-220282 | New SID on Security Aspects of Satellite Access | Xiaomi Technology | noted |  |  |
| S3-220283 | Usage of AN ID for NSWO authentication | Ericsson | agreed |  |  |
| S3-220284 | Alternative solution for NSWO authentication | Ericsson | not pursued |  |  |
| S3-220285 | Clarification on AKMA Application key retrieval | Samsung, ZTE | not pursued |  |  |
| S3-220286 | New AAnF application key get service without SUPI | Samsung, Verizon | revised |  | S3-220569 |
| S3-220287 | Evaluation and Conclusion for Key Issue#9 | Samsung | revised |  | S3-220498 |
| S3-220288 | Resolving EN in ProSe CP based solution | Samsung, Interdigital, LG Electronics | revised |  | S3-220572 |
| S3-220289 | Authentication and authorization between EEC and ECS/EES | Samsung | merged |  | S3-220553 |
| S3-220290 | Resolving EN on authorization in MSGin5G | Samsung | revised |  | S3-220593 |
| S3-220291 | Authorization between MCData message store and MCData Server | Samsung | revised |  | S3-220494 |
| S3-220292 | PDCP COUNT check for MRB | Samsung | not pursued |  |  |
| S3-220293 | MBS capability exchange and delivery method | Samsung | not pursued |  |  |
| S3-220294 | Security indication in MBS security context | Samsung | revised |  | S3-220592 |
| S3-220295 | Clarification to IAB in EN-DC architecture | Samsung | agreed |  |  |
| S3-220296 | Coversheet for TS 33.824 | Samsung | approved |  |  |
| S3-220297 | New SID on 5G User plane security enhancements | Samsung | noted |  |  |
| S3-220298 | Updates to NF profile for inter-slice access control | Samsung | not pursued |  |  |
| S3-220299 | Discussion on Authorization of MSGin5G Client | Samsung | noted |  |  |
| S3-220300 | R18 SID on Standardising Automated Certificate Management in SBA | Nokia, Nokia Shanghai Bell | revised |  | S3-220520 |
| S3-220301 | Clarification on indication to UE when KAF is expired | LG Electronics France | revised |  | S3-220522 |
| S3-220302 | Draft Reply LS on LTE User Plane Integrity Protection | Ericsson | revised |  | S3-220464 |
| S3-220303 | UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17 | Ericsson | revised |  | S3-220462 |
| S3-220304 | Clean up for TS 33.535 | LG Electronics France | agreed |  |  |
| S3-220305 | Addressing the editor’s note in 6.27.2.1.1 of Sol#27 | CableLabs | noted |  |  |
| S3-220306 | Addressing the editor’s note in 6.27.2.1.2 of sol#27 | CableLabs | approved |  |  |
| S3-220307 | Addressing the editor’s note in 6.27.2.1.5 of sol#27 | CableLabs | approved |  |  |
| S3-220308 | Addressing the editor’s note in 6.27.2.1.7 of sol#27 | CableLabs | noted |  |  |
| S3-220309 | Addressing the editor’s note in 6.27.2.2.1of Sol#27 | CableLabs | noted |  |  |
| S3-220310 | Addressing the editor’s note in 6.27.2.2.4 of Sol#27 | CableLabs | noted |  |  |
| S3-220311 | Protection of UAS NF to USS interface | Qualcomm Incorporated | revised |  | S3-220575 |
| S3-220312 | Additional of further 5G pairing cases | Qualcomm Incorporated | revised |  | S3-220576 |
| S3-220313 | Adding details of UUAA procedure in 4G | Qualcomm Incorporated | revised |  | S3-220577 |
| S3-220314 | Details of pairing in EPS | Qualcomm Incorporated | revised |  | S3-220578 |
| S3-220315 | Specifying EEC to ECS/EES security | Qualcomm Incorporated | noted |  |  |
| S3-220316 | Using MACS as a freshness parameter in the calculation of AK\* | Qualcomm Incorporated, Thales | agreed |  |  |
| S3-220317 | Discussion on Ua security protocol identifier for PSK TLS 1.3 | Qualcomm Incorporated | noted |  |  |
| S3-220318 | Adding a Note about the new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | not pursued |  |  |
| S3-220319 | Adding a new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | not pursued |  |  |
| S3-220320 | Adding text on preferring AKMA keys to GBA Digest | Qualcomm Incorporated | revised |  | S3-220574 |
| S3-220321 | Discussion on SCAS for gNB | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | noted |  |  |
| S3-220322 | New WID on Updates to gNB SCAS including split gNBs | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | revised |  | S3-220573 |
| S3-220323 | Correcting the update to the support of GEA algorithms in Rel-11 | Qualcomm Incorporated | agreed |  |  |
| S3-220324 | CR on PRUK ID format | Qualcomm Incorporated | approved |  |  |
| S3-220325 | Discussion on potential security mechanisms for protecting ProSe Disocovery message | Qualcomm Incorporated | noted |  |  |
| S3-220326 | CR to ProSe TS – Update on the discovery protection mechanisms in Direct Discovery | Qualcomm Incorporated | revised |  | S3-220583 |
| S3-220327 | CR to ProSe TS – Updates on MIC calculation for Direct Discovery | Qualcomm Incorporated | approved |  |  |
| S3-220328 | CR to ProSe TS – Privacy protection of RSC and PRUK ID over U2N relay | Qualcomm Incorporated | revised |  | S3-220582 |
| S3-220329 | Additional conclusion of KI #17 – security policy | Qualcomm Incorporated, CATT, InterDigital, Ericsson | revised |  | S3-220483 |
| S3-220330 | Update of conclusion for KI#5 | Qualcomm Incorporated | agreed |  |  |
| S3-220331 | Conclusion for KI#16 – privacy protection of PDU session-related parameters | Qualcomm Incorporated | not pursued |  |  |
| S3-220332 | pCR to the draft CR: EN resolution | Qualcomm Incorporated | merged |  | S3-220535 |
| S3-220333 | Reply LS on Multicast paging with TMGI | Qualcomm Incorporated | merged |  | S3-220537 |
| S3-220334 | Correct NAS uplink COUNT for KgNB/KeNB derivation | Qualcomm Incorporated | agreed |  |  |
| S3-220335 | Clarifcation and corrections to UE Onboarding in SNPNs | Qualcomm Incorporated, Nokia, Nokia Shanghai Bell | revised |  | S3-220471 |
| S3-220336 | Co-existence with EPS NSWO | Qualcomm Incorporated | revised |  | S3-220472 |
| S3-220337 | 5G NSWO roaming aspects | Qualcomm Incorporated | revised |  | S3-220473 |
| S3-220338 | Reply LS on CT6’s study item related to network slice-specific authentication and authorization (NSSAA) | Qualcomm Incorporated | revised |  | S3-220470 |
| S3-220339 | Scope for Automated Certificate Management in SBA TR | Nokia, Nokia Shanghai Bell | revised |  | S3-220451 |
| S3-220340 | TR 33.847 – Updates to Conclusions for KI 2 and KI 3 | MITRE Corporation | withdrawn |  |  |
| S3-220341 | Updating SEAL-S security | Ericsson | agreed |  |  |
| S3-220342 | Updating SEAL-UU security | Ericsson | agreed |  |  |
| S3-220343 | Profiling ACE in SEAL | Ericsson | agreed |  |  |
| S3-220344 | Revisiting security of SEAL interfaces | Ericsson | noted |  |  |
| S3-220345 | Correcting the implementation of approved S3-214431 to SEAL TS 33.434 | Ericsson | revised |  | S3-220456 |
| S3-220346 | Discussion on having AKMA and GBA in EC from interoperability and future-proof point of view | Ericsson | noted |  |  |
| S3-220347 | Rel-16 CAPIF usage for SEAL-S | Ericsson | revised |  | S3-220457 |
| S3-220348 | Rel-17 CAPIF usage for SEAL-S | Ericsson | revised |  | S3-220458 |
| S3-220349 | Rel-16 Correcting SEAL-UU security | Ericsson | revised |  | S3-220459 |
| S3-220350 | Rel-17 Correcting SEAL-UU security | Ericsson | revised |  | S3-220460 |
| S3-220351 | Authentication and authorization between EEC and ECS | Ericsson | revised |  | S3-220553 |
| S3-220352 | Authentication and authorization between EEC and EES | Ericsson | revised |  | S3-220554 |
| S3-220353 | New Solution: Shared key based MIB/SIBs protection with enhanced protection against replay/MitM attacks | Philips International B.V. | noted |  |  |
| S3-220354 | Introduction for Automated Certificate Management in SBA TR | Nokia, Nokia Shanghai Bell | revised |  | S3-220452 |
| S3-220355 | Updates Key Issue #1 | Philips International B.V. | not pursued |  |  |
| S3-220356 | Updates Solution #43 | Philips International B.V. | revised |  | S3-220555 |
| S3-220357 | Managing and provisioning of discovery keys | Philips International B.V. | noted |  |  |
| S3-220358 | Resolve EN in solution #44 | Ericsson | not pursued |  |  |
| S3-220359 | Conclusion for user plane solutions for KI#3, KI#4, KI#9 | Ericsson | not pursued |  |  |
| S3-220360 | Clarification Source Authenticity | Philips International B.V. | revised |  | S3-220585 |
| S3-220361 | Protection of longer discovery messages (simple) | Philips International B.V. | noted |  |  |
| S3-220362 | Protection of longer discovery messages (more efficient) | Philips International B.V. | noted |  |  |
| S3-220363 | Study on Security aspects for 5WWC Phase 2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-220364 | Key Issue for Secure RRC connection setup procedure | Nokia Corporation | withdrawn |  |  |
| S3-220365 | Resolving EN in user plane solution for UE-to-network relay | Ericsson | revised |  | S3-220550 |
| S3-220366 | Discussion on the SBA services to support Prose authentication | Ericsson | noted |  |  |
| S3-220367 | SBA service operations for Prose CP based solution for L3 U2N security | Ericsson | merged |  | S3-220572 |
| S3-220368 | SBA service operations for Prose L3 U2N security CP solution | Ericsson | revised |  | S3-220551 |
| S3-220369 | Definitation of functional entity PKMF | Ericsson | revised |  | S3-220552 |
| S3-220370 | PC5 security policies in User plane solution for ProSe UE-to-network relay | Ericsson | approved |  |  |
| S3-220371 | Prose Anchor Function to handle PRUK and PRUK ID | Ericsson | noted |  |  |
| S3-220372 | Authentication flow over PC5 for Prose CP based solution for L3 U2N security | Ericsson | merged |  | S3-220572 |
| S3-220373 | Update for Security Procedure of Communication with 5G ProSe Layer-2 UE-to-Network Relay | Ericsson | merged |  | S3-220539 |
| S3-220374 | Correction of the reference for 5G ProSe Layer-3 UE-to-Network Relay Disocvery | Ericsson | noted |  |  |
| S3-220375 | Removal of PRUK ID in CP based solution | Ericsson | noted |  |  |
| S3-220376 | ProSe: New service operations in the user plane solution for ProSe UE-to-network relay | Ericsson | approved |  |  |
| S3-220377 | Discussion on LS on Security for Small Data Transmission | Nokia Corporation | noted |  |  |
| S3-220378 | Reply LS on User consent Updating | Ericsson LM | noted |  |  |
| S3-220379 | TR 33.847 – Updates to Conclusions for KI 2 and KI 3 | MITRE Corporation | not pursued |  |  |
| S3-220380 | Reply LS on Security for Small Data Transmission | Nokia Corporation | noted |  |  |
| S3-220381 | Skeleton for Automated Certificate Management in SBA TR | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-220382 | Discussion on applying URSP rules for Authentic Applications | Lenovo, Motorola Mobility | noted |  |  |
| S3-220383 | User consent revocation | Nokia, Nokia Shanghai Bell | merged |  | S3-220489 |
| S3-220384 | User consent enforcement point | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-220385 | Formatting and alignment corrections | Nokia, Nokia Shanghai Bell | revised |  | S3-220507 |
| S3-220386 | Reference to SCP-specific requirements | Nokia, Nokia Shanghai Bell | revised |  | S3-220506 |
| S3-220387 | Reference to other 3GPP specs | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-220388 | Reference to symmetric channel delay clause | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-220389 | New KI on N32 security in Roaming Hub scenarios | Nokia, Nokia Shanghai Bell | revised |  | S3-220511 |
| S3-220390 | Resolution EN authorization method negotiation per KI7-Sol9 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-220391 | New sol. for KI7 on authorization mechanism negotiation | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-220392 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | revised |  | S3-220589 |
| S3-220393 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | revised |  | S3-220590 |
| S3-220394 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | revised |  | S3-220591 |
| S3-220395 | draftCR NRF deployment was S3-214534 | Nokia, Nokia Shanghai Bell, Ericsson | approved |  |  |
| S3-220396 | NRF deployments | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-220397 | SEPP reference | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-220398 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | revised |  | S3-220508 |
| S3-220399 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | revised |  | S3-220509 |
| S3-220400 | Using existing authentication services for NSWO | Nokia, Nokia Shanghai Bell | merged |  | S3-220481 |
| S3-220401 | Editorial corrections to Annex F of IMS | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-220402 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-220403 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-220404 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-220405 | New Study on applying URSP rules for Authentic Applications (FS\_UAutA) | Lenovo, Motorola Mobility | noted |  |  |
| S3-220406 | Detection of MitM attacks with secret paging | Lenovo, Motorola Mobility | noted |  |  |
| S3-220407 | Adding Reference to RFC 7235 in TS 33.203 | Ericsson | agreed |  |  |
| S3-220408 | LS on eCryptPr – Final Status | Ericsson | noted |  |  |
| S3-220409 | Resolution EN on NF Set per KI6-Sol7 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-220410 | New SID on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NR Air Interface and NG-RAN | Ericsson | noted |  |  |
| S3-220411 | Update of references for the GBA related UDM service operations | Ericsson | agreed |  |  |
| S3-220412 | LS on full Registration Request upon AMF re-allocation | Ericsson | revised |  | S3-220453 |
| S3-220413 | Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation | Ericsson | revised |  | S3-220454 |
| S3-220414 | Discussion about the NEF-AF trust model for solution #1 in TR 33.874 | Ericsson | revised |  | S3-220542 |
| S3-220415 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) (future proof alternative) | NTT DOCOMO INC. | revised |  | S3-220529 |
| S3-220416 | CR to 33.501 to protect CPSOR-CMCI information only (alternative to S3-220415) | NTT DOCOMO INC. | not pursued |  |  |
| S3-220417 | Resolution of editor’s note related to NSSAAF and AUSF selection | Nokia, Nokia Shanghai Bell | revised |  | S3-220495 |
| S3-220418 | Resolution of editor notes related SUPI usage and forwarding | Nokia, Nokia Shanghai Bell | merged |  | S3-220461 |
| S3-220419 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | revised |  | S3-220496 |
| S3-220420 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell | revised |  | S3-220497 |
| S3-220421 | Reply LS on Reply LS on security protection of RRCResumeRequest message | Nokia Corporation | noted |  |  |
| S3-220422 | AIML Security and Privacy SID | Chengdu OPPO Mobile Com. corp. | noted |  |  |
| S3-220423 | Deletion of the usage of NGAP PATH SWITCH REQUEST ACKNOWLEDGE message for AS rekeying during Xn-Handover | NTT DOCOMO INC. | revised |  | S3-220500 |
| S3-220424 | Discussion on RAN 3’s Reply LS on LTE User Plane Integrity Protection | VODAFONE | noted |  |  |
| S3-220425 | Discussion on LS on security concerns for UE providing Location Information for NB-IoT | Nokia Corporation | noted |  |  |
| S3-220426 | Study on Zero Trust Security | Lenovo, Motorola Mobility, Interdigital, Verizon, Cablelabs, Mavenir, Johns Hopkins University APL, LG Electronics, Telefonica | noted |  |  |
| S3-220427 | Discussion to Study on Zero Trust Security | Lenovo, Motorola Mobility | noted |  |  |
| S3-220428 | Reply LS on Reply LS on NTN specific User Consent | Nokia Corporation | noted |  |  |
| S3-220429 | Update to Clause 5.2.1.1 General | Lenovo, Motorola Mobility | revised |  | S3-220523 |
| S3-220430 | Resolving EN for UUAA re-authentication | Lenovo, Motorola Mobility | noted |  |  |
| S3-220431 | draft-Reply LS on new parameters for SOR | NTT DOCOMO INC. | noted |  |  |
| S3-220432 | Resolving EN for UUAA Revocation | Lenovo, Motorola Mobility | noted |  |  |
| S3-220433 | Resolving EN for UAS data security | Lenovo, Motorola Mobility | noted |  |  |
| S3-220434 | UUAA and Pairing Alignment update to 33.256 | Lenovo, Motorola Mobility | noted |  |  |
| S3-220435 | Update to Clause 1.9 for Onboarding Initial Access | Lenovo, Motorola Mobility | not pursued |  |  |
| S3-220436 | pCR to TS33.503 Add new clause for network function service description | CATT | revised |  | S3-220566 |
| S3-220437 | Key Issue for Secure RRC connection setup procedure | Nokia Corporation | noted |  |  |
| S3-220438 | New KI for Authentication of PLMNs over IPX | CableLabs | noted |  |  |
| S3-220439 | TR 33.847 - Discussion on KI#5 conclusions | Philips International B.V. | noted |  |  |
| S3-220440 | TR 33.847 - Update to conclusions of KI#5 | Philips International B.V. | not pursued |  |  |
| S3-220441 | Integrity protection for UE-to-NW relays | Philips International B.V. | noted |  |  |
| S3-220442 | Long term identifier updates for UE-to-NW relays | Philips International B.V. | noted |  |  |
| S3-220443 | Further Operator Platform Group questions following SDO Workshop | GSMA (forwarded by SA6) | noted |  |  |
| S3-220444 | LS on 3GPP TS 29.244 | BBF | postponed |  |  |
| S3-220445 | LS on primary authentication without using DCS | Ericsson | noted |  |  |
| S3-220446 | LS on 5G NSWO roaming aspects | Huawei | approved |  |  |
| S3-220447 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501 | LG Electronics Inc. | agreed | S3-220227 |  |
| S3-220448 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501(R15) | LG Electronics Inc. | agreed |  |  |
| S3-220449 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501(R16) | LG Electronics Inc. | agreed |  |  |
| S3-220450 | Conclusion for Secondary Authentication support with L3 U2N Relay | LG Electronics Inc., InterDigital | agreed | S3-220160 |  |
| S3-220451 | Scope for Automated Certificate Management in SBA TR | Nokia, Nokia Shanghai Bell | approved | S3-220339 |  |
| S3-220452 | Introduction for Automated Certificate Management in SBA TR | Nokia, Nokia Shanghai Bell | approved | S3-220354 |  |
| S3-220453 | LS on full Registration Request upon AMF re-allocation | Ericsson | approved | S3-220412 |  |
| S3-220454 | Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation | Ericsson | agreed | S3-220413 |  |
| S3-220455 | Align GUTI allocation to best practices of unpredictable identifier generation. | Deutsche Telekom AG | agreed | S3-220061 |  |
| S3-220456 | Correcting the implementation of approved S3-214431 to SEAL TS 33.434 | Ericsson | agreed | S3-220345 |  |
| S3-220457 | Rel-16 CAPIF usage for SEAL-S | Ericsson | agreed | S3-220347 |  |
| S3-220458 | Rel-17 CAPIF usage for SEAL-S | Ericsson | agreed | S3-220348 |  |
| S3-220459 | Rel-16 Correcting SEAL-UU security | Ericsson | agreed | S3-220349 |  |
| S3-220460 | Rel-17 Correcting SEAL-UU security | Ericsson | agreed | S3-220350 |  |
| S3-220461 | Removing Editor’s note on SUPI sent to AAA | Ericsson | agreed | S3-220220 |  |
| S3-220462 | UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17 | Ericsson | agreed | S3-220303 |  |
| S3-220463 | Reply LS on Security of Small data transmission | Intel | approved | S3-220152 |  |
| S3-220464 | Reply LS on LTE User Plane Integrity Protection | Ericsson | approved | S3-220302 |  |
| S3-220465 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | agreed | S3-220066 |  |
| S3-220466 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | agreed | S3-220067 |  |
| S3-220467 | Editor note removal from Annex S | Nokia, Nokia Shanghai Bell,Huawei, HiSilicon | agreed | S3-220083 |  |
| S3-220468 | Verification of NSSAIs for preventing slice attack | CableLabs, Ericsson | approved | - |  |
| S3-220469 | Reply LS on UE capability indication in UPU | Qualcomm Incorporated | approved | S3-220217 |  |
| S3-220470 | Reply LS on CT6’s study item related to network slice-specific authentication and authorization (NSSAA) | Qualcomm Incorporated | approved | S3-220338 |  |
| S3-220471 | Clarifcation and corrections to UE Onboarding in SNPNs | Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Intel | agreed | S3-220335 |  |
| S3-220472 | Co-existence with EPS NSWO | Qualcomm Incorporated, Ericsson | agreed | S3-220336 |  |
| S3-220473 | 5G NSWO roaming aspects | Qualcomm Incorporated, Ericsson | agreed | S3-220337 |  |
| S3-220474 | Reply LS on User Consent Updating | Xiaomi Technology | approved | S3-220270 |  |
| S3-220475 | Correction of the format of the URN string in the NF certificate profile | Ericsson | agreed | S3-220241 |  |
| S3-220476 | Correction of the format of the URN string in the NF certificate profile | Ericsson | agreed | S3-220242 |  |
| S3-220477 | Clarification on the certificate profile for SCP and SEPP | Ericsson, Nokia, Nokia Shanghai Bell | agreed | S3-220243 |  |
| S3-220478 | Multiple PLMN-IDs in the SEPP interconnect certificate profile | Ericsson, Nokia, Nokia Shanghai Bell | agreed | S3-220244 |  |
| S3-220479 | SEPP to include and verify the source PLMN-ID | Ericsson, Nokia, Nokia Shanghai Bell, Mavenir | agreed | S3-220245 |  |
| S3-220480 | Resolving Editor's Notes in "SEPP to include and verify the source PLMN-ID" | Ericsson, Nokia, Nokia Shanghai Bell, Mavenir | approved | S3-220246 |  |
| S3-220481 | Clarification and corrections to NSWO SBI Interface methods | Intel, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | agreed | S3-220156 |  |
| S3-220482 | Removal of EN related to identifiers for EES and ECS authentication and authorization. | Intel | approved | S3-220158 |  |
| S3-220483 | Additional conclusion of KI #17 – security policy | Qualcomm Incorporated, CATT, InterDigital, Ericsson | agreed | S3-220329 |  |
| S3-220484 | draft TR 33.809 | Apple Computer Trading Co. Ltd | approved |  |  |
| S3-220485 | conclusion for KI#1 | Huawei, HiSilicon | approved | S3-220115 |  |
| S3-220486 | updates to KI#2 | Huawei, HiSilicon, Xiaomi | approved | S3-220116 |  |
| S3-220487 | draft TR 33.874-060 for eNS2 | Huawei, HiSilicon | approved |  |  |
| S3-220488 | Refer to User consent Requirements for MEC | Huawei, HiSilicon, Ericsson | approved | S3-220176 |  |
| S3-220489 | Delete Editor's Note in UC3S | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-220177 |  |
| S3-220490 | Addressing the editor's notes in sol#27 | Huawei, HiSilicon, CableLabs | approved | S3-220192 |  |
| S3-220491 | Addressing the editor's notes in sol#27 | Huawei, HiSilicon, CableLabs | withdrawn | - |  |
| S3-220492 | eNS2\_Solution #1Update | Xiaomi Communications | approved | S3-220226 |  |
| S3-220493 | REPLY LS on support of DCS variants in UE Onboarding Architecture | Nokia, Nokia Shanghai Bell | approved | S3-220197 |  |
| S3-220494 | Authorization between MCData message store and MCData Server | Samsung | agreed | S3-220291 |  |
| S3-220495 | Resolution of editor’s note related to NSSAAF and AUSF selection | Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-220417 |  |
| S3-220496 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | agreed | S3-220419 |  |
| S3-220497 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-220420 |  |
| S3-220498 | Evaluation and Conclusion for Key Issue#9 | Samsung | approved | S3-220287 |  |
| S3-220499 | Reply LS on MINT functionality for Disaster Roaming | S2-2201514 | replied to |  |  |
| S3-220500 | Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2 | NTT DOCOMO INC. | agreed | S3-220423 |  |
| S3-220501 | Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2. | NTT DOCOMO INC. | agreed |  |  |
| S3-220502 | Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2. | NTT DOCOMO INC. | agreed |  |  |
| S3-220503 | Clarification on origination of the Rel17 SCAS test cases in AMF | Huawei, Hisilicon | agreed | S3-220236 |  |
| S3-220504 | Draft TR 33.876 Study on Automated Certificate Mangement in SBA | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-220505 | LS on new reference point name for the interface between PKMF and UDM in 5G ProSe | Ericsson LM | approved |  |  |
| S3-220506 | Reference to SCP-specific requirements | Nokia, Nokia Shanghai Bell | agreed | S3-220386 |  |
| S3-220507 | Formatting and alignment corrections | Nokia, Nokia Shanghai Bell | agreed | S3-220385 |  |
| S3-220508 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | agreed | S3-220398 |  |
| S3-220509 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | agreed | S3-220399 |  |
| S3-220510 | Draft CR on NRF deployments | Nokia Germany, Ericsson,Mavenir,Huawei,HiSilicon | approved |  |  |
| S3-220511 | New KI on N32 security in Roaming Hub scenarios | Nokia, Nokia Shanghai Bell | approved | S3-220389 |  |
| S3-220512 | Draft TR 33.875 | Nokia Germany | approved |  |  |
| S3-220513 | Draft TR 33.848 | BT plc | approved |  |  |
| S3-220514 | TR 33.870 - Skeleton | InterDigital, Inc. | approved | S3-220044 |  |
| S3-220515 | TR 33.870 - Scope | InterDigital, Inc. | approved | S3-220055 |  |
| S3-220516 | TR 33.870 – Informative Annex Y | InterDigital, Inc. | approved | S3-220068 |  |
| S3-220517 | Draft TR 33.870 | InterDigital, Inc. | approved |  |  |
| S3-220518 | Reply LS on Reply LS on MINT functionality for Disaster Roaming | LG Electronics Inc. | approved |  |  |
| S3-220519 | Clarification on AS security aspect in 5MBS | LG Electronics Inc. | agreed | S3-220225 |  |
| S3-220520 | R18 SID on Standardising Automated Certificate Management in SBA | Nokia, Nokia Shanghai Bell | agreed | S3-220300 |  |
| S3-220521 | Rel-17 Work Item Exception for 5G\_ProSe Security Aspects | CATT | agreed |  |  |
| S3-220522 | Clarification on indication to UE when KAF is expired | LG Electronics France | agreed | S3-220301 |  |
| S3-220523 | Update to Clause 5.2.1.1 General | Lenovo, Motorola Mobility | approved | S3-220429 |  |
| S3-220524 | Revise generic network product to support management function | Nokia, Nokia Shanghai Bell | approved | - |  |
| S3-220525 | SA3 meeting calendar | MCC | noted |  |  |
| S3-220526 | add annex for aspects specific to MnF network product class | Nokia, Nokia Shanghai Bell | approved | - |  |
| S3-220527 | Procedure for secondary authentication without N3IWF | LG Electronics Inc., InterDigital | approved | S3-220161 |  |
| S3-220528 | Draft TS 33.526 | Huawei Technologies Sweden AB | approved |  |  |
| S3-220529 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) | NTT DOCOMO INC. | agreed | S3-220415 |  |
| S3-220530 | CR for AF Authorization for accessing network slice quota-usage information | Huawei, HiSilicon | agreed | S3-220114 |  |
| S3-220531 | New SID on enhancement of AKMA | China Mobile | agreed | S3-220262 |  |
| S3-220532 | New WID on SCAS for AAnF | China Mobile | agreed | S3-220263 |  |
| S3-220533 | Presentation of Specification to TSG: TS 33.558, Version 0.4.0 for approval | Huawei, HiSilicon | approved |  |  |
| S3-220534 | MnF SCAS Scope | Huawei, HiSilicon | approved | S3-220173 |  |
| S3-220535 | Resolution of authorization issue | Huawei, HiSilicon | agreed | S3-220162 |  |
| S3-220536 | Corrections and clarifications in the security mechanisms for MBS | Huawei, HiSilicon | agreed | S3-220164 |  |
| S3-220537 | Reply LS on Multicast paging with TMGI | Huawei, HiSilicon | approved | S3-220165 |  |
| S3-220538 | New SID on Home network triggerred authenticaiton | Huawei, HiSilicon | agreed | S3-220170 |  |
| S3-220539 | Security procedures for L2 UE-to-Network relay | Huawei, HiSilicon, Ericsson | approved | S3-220180 |  |
| S3-220540 | Refer to User Consent Requirements for eNA | Huawei, HiSilicon | agreed | S3-220191 |  |
| S3-220541 | LS Reply on Resynchronisations | Ericsson Japan K.K. | approved |  |  |
| S3-220542 | Discussion about the NEF-AF trust model for solution #1 in TR 33.874 | Ericsson | endorsed | S3-220414 |  |
| S3-220543 | Reply LS on opens issues for NB-IoT and eMTC support for NTN | Xiaomi Technology | approved | S3-220269 |  |
| S3-220544 | Reply LS on security concerns for UE providing Location Information for NB-IoT | Xiaomi Technology | approved | S3-220273 |  |
| S3-220545 | 33.503: Corrections for Network Domain Security | Xiaomi Technology | approved | S3-220274 |  |
| S3-220546 | 33.503: Proposed Changes in Model A Discovery | Xiaomi Technology | approved | S3-220276 |  |
| S3-220547 | 33.503: Proposed Changes in Model B Discovery | Xiaomi Technology | approved | S3-220277 |  |
| S3-220548 | 33.503: PC5 Security Policy Privisioned by PKMF | Xiaomi Technology | approved | S3-220278 |  |
| S3-220549 | 33.503: PC5 Security Policy for L2 U2N Relay | Xiaomi Technology | approved | S3-220280 |  |
| S3-220550 | Resolving EN in user plane solution for UE-to-network relay | Ericsson | approved | S3-220365 |  |
| S3-220551 | SBA service operations for Prose L3 U2N security CP solution | Ericsson | agreed | S3-220368 |  |
| S3-220552 | Definitation of functional entity PKMF | Ericsson | approved | S3-220369 |  |
| S3-220553 | Authentication and authorization between EEC and ECS | Ericsson, Huawei, HiSilicon, Deutsche Telekom, Thales, China Mobile, Samsung, Intel | approved | S3-220351 |  |
| S3-220554 | Authentication and authorization between EEC and EES | Ericsson, Huawei, HiSilicon, Thales, Intel, Samsung | approved | S3-220352 |  |
| S3-220555 | Updates Solution #43 | Philips International B.V. | agreed | S3-220356 |  |
| S3-220556 | Add a Note about the Kaf refresh | ZTE Corporation | agreed | S3-220087 |  |
| S3-220557 | Add a clause about key hierarchy for user plane | ZTE Corporation | approved | S3-220096 |  |
| S3-220558 | Add an EN in clause 6.3.3.2.2 | ZTE Corporation | approved | S3-220097 |  |
| S3-220559 | Clarficaiton on PKMF act as AKMA AF in clause 6.3.3.2.2 | ZTE Corporation | approved | S3-220099 |  |
| S3-220560 | TR 33.936 | China Mobile Com. Corporation | approved |  |  |
| S3-220561 | TR 33.927 | China Mobile Com. Corporation | approved |  |  |
| S3-220562 | TS 33.527 | China Mobile Com. Corporation | approved |  |  |
| S3-220563 | New SID on security aspects of enablers for Network Automation for 5G - phase 3 | China Mobile, ZTE, Ericsson, Apple, China Unicom, CAICT, China Telecom, Cablelabs, Nokia, Nokia Shanghai Bell, CATT | agreed | S3-220130 |  |
| S3-220564 | pCR to TS33.503 Clause 4.2 Add new reference point between PKMF and UDM | CATT | approved | S3-220209 |  |
| S3-220565 | pCR to TS33.503 Clause 6.3 Support SUCI in security procedure over User Plane | CATT | approved | S3-220210 |  |
| S3-220566 | pCR to TS33.503 Add new clause for network function service description | CATT | approved | S3-220436 |  |
| S3-220567 | Draft TS 33.503 v0.3.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) | CATT | approved |  |  |
| S3-220568 | Draft TS 33.558 | Huawei, HiSilicon | approved |  |  |
| S3-220569 | New AAnF application key get service without SUPI | Samsung, Verizon | agreed | S3-220286 |  |
| S3-220570 | Living document for MnF SCAS: draftCR to TR 33.926 | Huawei, HiSilicon | approved | S3-220186 |  |
| S3-220571 | LS on Further Operator Platform Group questions following SDO Workshop | Samsung | approved |  |  |
| S3-220572 | Resolving EN in ProSe CP based solution | Samsung, Interdigital, LG Electronics | approved | S3-220288 |  |
| S3-220573 | New WID on Updates to gNB SCAS including split gNBs | Qualcomm Incorporated, Deutsche Telekom AG, AT&T, Altiostar | agreed | S3-220322 |  |
| S3-220574 | Adding text on preferring AKMA keys to GBA Digest | Qualcomm Incorporated | agreed | S3-220320 |  |
| S3-220575 | Protection of UAS NF to USS interface | Qualcomm Incorporated, Huawei, HiSilicon | approved | S3-220311 |  |
| S3-220576 | Additional of further 5G pairing cases | Qualcomm Incorporated | approved | S3-220312 |  |
| S3-220577 | Adding details of UUAA procedure in 4G | Qualcomm Incorporated | approved | S3-220313 |  |
| S3-220578 | Details of pairing in EPS | Qualcomm Incorporated | approved | S3-220314 |  |
| S3-220579 | Reply LS on Non-Support of Ciphering Algorithm GEA1 | Qualcomm incorporated | approved |  |  |
| S3-220580 | TS 33.256 v1.1.0 | Qualcomm CDMA Technologies | approved |  |  |
| S3-220581 | Cover sheet for TS 33.256 | Qualcomm Incorporated | approved |  |  |
| S3-220582 | CR to ProSe TS – Privacy protection of RSC and PRUK ID over U2N relay | Qualcomm Incorporated | approved | S3-220328 |  |
| S3-220583 | CR to ProSe TS – Update on the discovery protection mechanisms in Direct Discovery | Qualcomm Incorporated | approved | S3-220326 |  |
| S3-220584 | R18 SID on Security Enhancement of support for Edge Computing — phase 2 | Huawei, HiSilicon | agreed | S3-220228 |  |
| S3-220585 | Clarification Source Authenticity | Philips International B.V. | approved | S3-220360 |  |
| S3-220586 | New SID on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 2 | CATT, China Unicom, Interdigital | agreed | S3-220206 | - |
| S3-220587 | Process and agenda for SA3#106e | WG Chair | noted | - | - |
| S3-220588 | Updates to Solution #5 | Johns Hopkins University APL, US National Security Agency, CISA ECD, InterDigital | approved | S3-220078 | - |
| S3-220589 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom | agreed | S3-220392 |  |
| S3-220590 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom | agreed | S3-220393 |  |
| S3-220591 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom | agreed | S3-220394 |  |
| S3-220592 | Security indication in MBS security context | Samsung | agreed | S3-220294 |  |
| S3-220593 | Resolving EN on authorization in MSGin5G | Samsung | agreed | S3-220290 |  |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-220001 | 01/03/2022 08:57:45 | approved |
| S3-220002 | 01/03/2022 08:57:49 | approved |
| S3-220003 | 01/03/2022 08:58:12 | noted |
| S3-220004 | 01/03/2022 08:57:51 | noted |
| S3-220007 | 28/02/2022 13:05:13 | available |
| S3-220007 | 28/02/2022 13:07:46 | postponed |
| S3-220008 | 28/02/2022 13:10:03 | noted |
| S3-220009 | 28/02/2022 13:10:22 | noted |
| S3-220010 | 28/02/2022 13:10:25 | noted |
| S3-220011 | 28/02/2022 13:10:29 | noted |
| S3-220012 | 28/02/2022 13:10:34 | noted |
| S3-220013 | 28/02/2022 13:28:52 | noted |
| S3-220014 | 28/02/2022 13:10:35 | noted |
| S3-220015 | 28/02/2022 13:10:40 | noted |
| S3-220016 | 28/02/2022 13:10:41 | noted |
| S3-220017 | 28/02/2022 14:10:42 | noted |
| S3-220018 | 01/03/2022 10:54:10 | noted |
| S3-220019 | 28/02/2022 13:23:38 | noted |
| S3-220020 | 28/02/2022 13:23:42 | noted |
| S3-220021 | 01/03/2022 14:23:58 | noted |
| S3-220022 | 28/02/2022 13:20:42 | noted |
| S3-220023 | 01/03/2022 13:43:33 | noted |
| S3-220024 | 01/03/2022 10:41:23 | available |
| S3-220025 | 28/02/2022 13:10:45 | noted |
| S3-220026 | 28/02/2022 13:50:36 | available |
| S3-220027 | 28/02/2022 13:13:17 | noted |
| S3-220028 | 28/02/2022 13:13:18 | noted |
| S3-220029 | 01/03/2022 10:19:38 | noted |
| S3-220030 | 28/02/2022 13:13:55 | available |
| S3-220031 | 28/02/2022 13:15:01 | noted |
| S3-220032 | 28/02/2022 13:15:07 | noted |
| S3-220033 | 28/02/2022 13:15:08 | noted |
| S3-220034 | 28/02/2022 13:15:12 | noted |
| S3-220035 | 01/03/2022 10:44:28 | noted |
| S3-220036 | 28/02/2022 13:23:43 | noted |
| S3-220037 | 28/02/2022 13:08:03 | noted |
| S3-220038 | 28/02/2022 13:16:20 | approved |
| S3-220039 | 28/02/2022 13:17:27 | available |
| S3-220040 | 28/02/2022 13:09:30 | noted |
| S3-220041 | 01/03/2022 13:43:45 | available |
| S3-220042 | 01/03/2022 14:24:00 | agreed |
| S3-220043 | 28/02/2022 13:28:02 | noted |
| S3-220045 | 28/02/2022 13:19:01 | postponed |
| S3-220046 | 28/02/2022 13:20:00 | noted |
| S3-220047 | 28/02/2022 13:08:09 | noted |
| S3-220048 | 28/02/2022 13:20:03 | noted |
| S3-220049 | 28/02/2022 13:20:06 | noted |
| S3-220050 | 28/02/2022 13:09:23 | noted |
| S3-220051 | 28/02/2022 13:08:40 | noted |
| S3-220053 | 28/02/2022 13:20:36 | noted |
| S3-220054 | 28/02/2022 13:23:30 | postponed |
| S3-220057 | 01/03/2022 16:28:42 | noted |
| S3-220058 | 01/03/2022 14:24:29 | noted |
| S3-220059 | 01/03/2022 13:53:54 | noted |
| S3-220060 | 01/03/2022 14:24:33 | noted |
| S3-220062 | 01/03/2022 15:58:43 | noted |
| S3-220069 | 01/03/2022 15:12:00 | agreed |
| S3-220070 | 01/03/2022 15:12:02 | agreed |
| S3-220071 | 01/03/2022 15:12:08 | available |
| S3-220072 | 01/03/2022 12:33:32 | noted |
| S3-220073 | 01/03/2022 16:28:32 | noted |
| S3-220074 | 01/03/2022 12:33:39 | noted |
| S3-220075 | 01/03/2022 14:28:18 | noted |
| S3-220076 | 01/03/2022 10:57:01 | approved |
| S3-220077 | 01/03/2022 15:58:49 | approved |
| S3-220078 | 01/03/2022 16:05:12 | revised |
| S3-220079 | 01/03/2022 12:33:43 | noted |
| S3-220080 | 01/03/2022 12:34:30 | noted |
| S3-220081 | 01/03/2022 16:08:05 | available |
| S3-220082 | 01/03/2022 14:53:39 | available |
| S3-220084 | 18/02/2022 14:05:42 | available |
| S3-220084 | 01/03/2022 14:07:24 | revised |
| S3-220085 | 28/02/2022 13:08:43 | noted |
| S3-220086 | 28/02/2022 13:08:45 | noted |
| S3-220088 | 28/02/2022 14:01:52 | agreed |
| S3-220089 | 28/02/2022 14:01:56 | available |
| S3-220090 | 28/02/2022 14:02:17 | available |
| S3-220091 | 28/02/2022 14:06:22 | available |
| S3-220092 | 28/02/2022 14:06:58 | available |
| S3-220093 | 01/03/2022 10:47:18 | available |
| S3-220094 | 01/03/2022 10:50:57 | available |
| S3-220095 | 01/03/2022 10:53:04 | available |
| S3-220098 | 01/03/2022 10:58:15 | approved |
| S3-220100 | 01/03/2022 12:34:47 | available |
| S3-220101 | 01/03/2022 12:34:52 | approved |
| S3-220102 | 01/03/2022 13:40:42 | available |
| S3-220103 | 01/03/2022 12:35:01 | available |
| S3-220104 | 01/03/2022 12:35:13 | approved |
| S3-220105 | 01/03/2022 13:54:05 | noted |
| S3-220106 | 01/03/2022 13:54:07 | noted |
| S3-220107 | 01/03/2022 14:07:39 | agreed |
| S3-220108 | 01/03/2022 16:28:57 | noted |
| S3-220109 | 01/03/2022 14:54:47 | available |
| S3-220110 | 01/03/2022 15:57:17 | noted |
| S3-220111 | 01/03/2022 15:57:24 | noted |
| S3-220112 | 01/03/2022 15:57:25 | noted |
| S3-220113 | 01/03/2022 15:57:29 | noted |
| S3-220117 | 01/03/2022 14:54:56 | available |
| S3-220118 | 01/03/2022 13:54:14 | noted |
| S3-220119 | 01/03/2022 10:55:07 | available |
| S3-220120 | 01/03/2022 10:54:21 | noted |
| S3-220121 | 28/02/2022 14:00:59 | approved |
| S3-220122 | 28/02/2022 14:01:02 | approved |
| S3-220123 | 28/02/2022 14:01:09 | approved |
| S3-220124 | 28/02/2022 14:01:10 | approved |
| S3-220125 | 28/02/2022 14:01:16 | approved |
| S3-220126 | 28/02/2022 14:01:17 | approved |
| S3-220127 | 01/03/2022 13:56:58 | noted |
| S3-220128 | 01/03/2022 13:57:03 | noted |
| S3-220129 | 01/03/2022 13:57:07 | noted |
| S3-220131 | 01/03/2022 12:35:19 | noted |
| S3-220132 | 01/03/2022 13:57:44 | noted |
| S3-220133 | 01/03/2022 13:58:01 | noted |
| S3-220134 | 01/03/2022 15:51:17 | noted |
| S3-220135 | 01/03/2022 15:51:20 | noted |
| S3-220136 | 01/03/2022 13:58:56 | noted |
| S3-220137 | 01/03/2022 10:47:44 | available |
| S3-220138 | 01/03/2022 10:47:59 | noted |
| S3-220139 | 01/03/2022 14:17:10 | available |
| S3-220140 | 01/03/2022 14:17:16 | available |
| S3-220141 | 01/03/2022 14:17:29 | available |
| S3-220142 | 01/03/2022 14:17:32 | available |
| S3-220143 | 28/02/2022 13:19:05 | noted |
| S3-220144 | 28/02/2022 13:20:22 | noted |
| S3-220145 | 01/03/2022 14:55:13 | available |
| S3-220146 | 01/03/2022 10:48:08 | noted |
| S3-220147 | 01/03/2022 12:34:03 | noted |
| S3-220148 | 01/03/2022 10:48:22 | available |
| S3-220149 | 28/02/2022 13:59:32 | noted |
| S3-220150 | 01/03/2022 13:32:26 | revised |
| S3-220151 | 28/02/2022 13:08:55 | noted |
| S3-220153 | 28/02/2022 14:00:11 | revised |
| S3-220154 | 01/03/2022 10:51:45 | noted |
| S3-220155 | 01/03/2022 10:43:05 | available |
| S3-220157 | 01/03/2022 10:51:54 | approved |
| S3-220159 | 01/03/2022 16:08:15 | noted |
| S3-220163 | 28/02/2022 14:07:52 | available |
| S3-220166 | 01/03/2022 13:59:06 | noted |
| S3-220167 | 01/03/2022 13:59:50 | noted |
| S3-220168 | 01/03/2022 13:59:53 | noted |
| S3-220169 | 01/03/2022 14:00:14 | agreed |
| S3-220171 | 01/03/2022 14:08:03 | available |
| S3-220172 | 28/02/2022 14:00:26 | approved |
| S3-220174 | 01/03/2022 14:55:53 | available |
| S3-220175 | 01/03/2022 13:48:53 | available |
| S3-220178 | 01/03/2022 14:56:21 | agreed |
| S3-220179 | 01/03/2022 12:32:50 | available |
| S3-220181 | 01/03/2022 10:55:16 | available |
| S3-220182 | 01/03/2022 12:59:50 | available |
| S3-220183 | 01/03/2022 13:36:06 | noted |
| S3-220184 | 28/02/2022 14:08:03 | available |
| S3-220185 | 01/03/2022 13:37:49 | approved |
| S3-220187 | 01/03/2022 13:49:04 | available |
| S3-220188 | 01/03/2022 10:09:21 | available |
| S3-220190 | 28/02/2022 13:19:11 | noted |
| S3-220198 | 01/03/2022 13:36:13 | noted |
| S3-220200 | 01/03/2022 16:27:10 | available |
| S3-220201 | 28/02/2022 13:29:24 | available |
| S3-220202 | 01/03/2022 14:56:35 | noted |
| S3-220203 | 01/03/2022 10:48:55 | noted |
| S3-220204 | 01/03/2022 14:56:42 | available |
| S3-220205 | 01/03/2022 10:51:11 | available |
| S3-220206 | 01/03/2022 15:09:07 | revised |
| S3-220207 | 01/03/2022 14:56:52 | available |
| S3-220208 | 01/03/2022 10:58:28 | approved |
| S3-220211 | 01/03/2022 10:59:33 | available |
| S3-220212 | 01/03/2022 14:57:02 | noted |
| S3-220213 | 01/03/2022 10:59:44 | approved |
| S3-220214 | 01/03/2022 14:57:17 | agreed |
| S3-220215 | 01/03/2022 10:11:41 | available |
| S3-220216 | 28/02/2022 13:23:48 | noted |
| S3-220218 | 01/03/2022 10:43:33 | available |
| S3-220219 | 01/03/2022 10:43:42 | available |
| S3-220221 | 01/03/2022 10:13:40 | available |
| S3-220222 | 01/03/2022 14:08:29 | available |
| S3-220223 | 01/03/2022 14:08:32 | available |
| S3-220224 | 01/03/2022 14:57:26 | agreed |
| S3-220228 | 01/03/2022 10:45:45 | available |
| S3-220229 | 01/03/2022 14:08:45 | available |
| S3-220230 | 01/03/2022 14:17:37 | agreed |
| S3-220231 | 01/03/2022 10:49:08 | available |
| S3-220232 | 01/03/2022 10:51:18 | available |
| S3-220233 | 01/03/2022 14:08:51 | available |
| S3-220234 | 01/03/2022 14:08:52 | available |
| S3-220235 | 01/03/2022 14:08:54 | available |
| S3-220237 | 01/03/2022 14:25:26 | noted |
| S3-220238 | 28/02/2022 13:24:15 | noted |
| S3-220239 | 01/03/2022 10:13:54 | noted |
| S3-220240 | 01/03/2022 10:14:20 | available |
| S3-220247 | 03/03/2022 07:57:05 | available |
| S3-220248 | 03/03/2022 07:57:24 | available |
| S3-220249 | 01/03/2022 15:44:54 | agreed |
| S3-220250 | 01/03/2022 15:44:57 | agreed |
| S3-220251 | 01/03/2022 15:45:00 | agreed |
| S3-220252 | 01/03/2022 14:01:58 | noted |
| S3-220253 | 01/03/2022 10:10:53 | available |
| S3-220254 | 01/03/2022 10:15:33 | available |
| S3-220255 | 01/03/2022 10:15:45 | agreed |
| S3-220256 | 01/03/2022 10:15:56 | available |
| S3-220257 | 01/03/2022 10:16:12 | agreed |
| S3-220258 | 01/03/2022 15:44:05 | agreed |
| S3-220259 | 01/03/2022 15:44:07 | agreed |
| S3-220260 | 01/03/2022 15:44:08 | agreed |
| S3-220261 | 01/03/2022 15:22:24 | noted |
| S3-220264 | 01/03/2022 16:24:41 | agreed |
| S3-220265 | 01/03/2022 13:51:24 | available |
| S3-220266 | 01/03/2022 15:22:28 | available |
| S3-220267 | 01/03/2022 15:42:41 | available |
| S3-220268 | 01/03/2022 15:42:57 | available |
| S3-220271 | 28/02/2022 13:19:55 | noted |
| S3-220272 | 28/02/2022 13:19:49 | noted |
| S3-220275 | 01/03/2022 11:00:03 | noted |
| S3-220279 | 01/03/2022 11:00:45 | approved |
| S3-220281 | 01/03/2022 14:02:20 | noted |
| S3-220282 | 01/03/2022 14:02:38 | noted |
| S3-220283 | 01/03/2022 15:43:03 | agreed |
| S3-220284 | 01/03/2022 15:43:07 | available |
| S3-220285 | 28/02/2022 14:02:22 | available |
| S3-220289 | 01/03/2022 10:49:19 | available |
| S3-220290 | 01/03/2022 13:52:40 | available |
| S3-220290 | 03/03/2022 07:55:13 | email approval |
| S3-220292 | 28/02/2022 14:08:18 | available |
| S3-220293 | 28/02/2022 14:08:31 | available |
| S3-220294 | 28/02/2022 14:09:00 | available |
| S3-220294 | 03/03/2022 07:54:57 | email approval |
| S3-220295 | 01/03/2022 15:45:13 | agreed |
| S3-220296 | 01/03/2022 14:20:50 | approved |
| S3-220297 | 01/03/2022 14:02:41 | noted |
| S3-220298 | 01/03/2022 15:43:26 | available |
| S3-220299 | 01/03/2022 13:52:59 | noted |
| S3-220304 | 28/02/2022 14:05:06 | agreed |
| S3-220305 | 01/03/2022 15:56:14 | noted |
| S3-220306 | 01/03/2022 15:56:20 | approved |
| S3-220307 | 01/03/2022 15:56:26 | approved |
| S3-220308 | 01/03/2022 15:56:26 | noted |
| S3-220309 | 01/03/2022 15:56:34 | noted |
| S3-220310 | 01/03/2022 15:56:35 | noted |
| S3-220315 | 01/03/2022 10:49:27 | noted |
| S3-220316 | 01/03/2022 15:44:25 | agreed |
| S3-220317 | 28/02/2022 14:05:21 | noted |
| S3-220318 | 28/02/2022 14:05:25 | available |
| S3-220319 | 28/02/2022 14:05:30 | available |
| S3-220321 | 01/03/2022 14:03:03 | noted |
| S3-220323 | 01/03/2022 15:45:21 | agreed |
| S3-220324 | 01/03/2022 11:01:19 | approved |
| S3-220325 | 01/03/2022 11:01:23 | noted |
| S3-220326 | 01/03/2022 10:45:58 | available |
| S3-220327 | 01/03/2022 11:01:57 | approved |
| S3-220328 | 01/03/2022 10:46:09 | available |
| S3-220330 | 01/03/2022 16:22:50 | agreed |
| S3-220331 | 01/03/2022 16:23:24 | available |
| S3-220332 | 28/02/2022 14:10:06 | available |
| S3-220333 | 28/02/2022 13:22:21 | available |
| S3-220334 | 01/03/2022 15:11:26 | agreed |
| S3-220341 | 01/03/2022 15:45:49 | agreed |
| S3-220342 | 01/03/2022 15:45:52 | agreed |
| S3-220343 | 01/03/2022 15:45:58 | agreed |
| S3-220344 | 01/03/2022 15:46:04 | noted |
| S3-220346 | 01/03/2022 10:49:32 | noted |
| S3-220353 | 01/03/2022 15:56:43 | noted |
| S3-220355 | 01/03/2022 16:23:32 | available |
| S3-220357 | 01/03/2022 11:02:17 | noted |
| S3-220358 | 01/03/2022 16:07:48 | available |
| S3-220359 | 01/03/2022 16:23:43 | available |
| S3-220360 | 01/03/2022 10:45:13 | available |
| S3-220361 | 01/03/2022 12:33:16 | noted |
| S3-220362 | 01/03/2022 12:33:23 | noted |
| S3-220363 | 01/03/2022 14:03:17 | noted |
| S3-220366 | 01/03/2022 13:36:33 | noted |
| S3-220367 | 01/03/2022 13:36:54 | available |
| S3-220370 | 01/03/2022 12:34:21 | approved |
| S3-220371 | 01/03/2022 13:37:11 | noted |
| S3-220372 | 01/03/2022 13:37:14 | available |
| S3-220373 | 01/03/2022 12:59:08 | available |
| S3-220374 | 01/03/2022 13:39:15 | noted |
| S3-220375 | 01/03/2022 13:37:25 | noted |
| S3-220376 | 01/03/2022 12:59:17 | approved |
| S3-220377 | 28/02/2022 13:08:48 | noted |
| S3-220378 | 01/03/2022 13:44:29 | noted |
| S3-220379 | 01/03/2022 16:23:50 | available |
| S3-220380 | 28/02/2022 13:08:51 | noted |
| S3-220381 | 01/03/2022 14:25:35 | approved |
| S3-220382 | 01/03/2022 14:03:30 | noted |
| S3-220383 | 01/03/2022 13:48:37 | available |
| S3-220384 | 01/03/2022 13:49:26 | available |
| S3-220387 | 28/02/2022 14:01:40 | agreed |
| S3-220388 | 01/03/2022 15:46:26 | agreed |
| S3-220390 | 01/03/2022 14:21:39 | noted |
| S3-220391 | 01/03/2022 16:26:32 | noted |
| S3-220392 | 03/03/2022 07:56:06 | available |
| S3-220393 | 03/03/2022 07:55:54 | available |
| S3-220394 | 03/03/2022 07:55:32 | available |
| S3-220395 | 01/03/2022 15:35:39 | approved |
| S3-220396 | 01/03/2022 15:36:04 | available |
| S3-220397 | 01/03/2022 15:36:14 | agreed |
| S3-220400 | 01/03/2022 15:36:58 | available |
| S3-220401 | 01/03/2022 15:37:06 | agreed |
| S3-220402 | 01/03/2022 15:37:17 | available |
| S3-220403 | 01/03/2022 15:37:21 | available |
| S3-220404 | 01/03/2022 15:37:24 | available |
| S3-220405 | 01/03/2022 14:03:31 | noted |
| S3-220406 | 01/03/2022 15:58:11 | noted |
| S3-220407 | 28/02/2022 14:05:39 | agreed |
| S3-220408 | 28/02/2022 14:05:42 | noted |
| S3-220409 | 01/03/2022 14:21:42 | approved |
| S3-220410 | 01/03/2022 14:03:40 | noted |
| S3-220411 | 01/03/2022 15:37:35 | agreed |
| S3-220416 | 28/02/2022 13:09:51 | available |
| S3-220418 | 01/03/2022 10:17:42 | available |
| S3-220421 | 28/02/2022 13:08:12 | noted |
| S3-220422 | 01/03/2022 14:03:49 | noted |
| S3-220424 | 28/02/2022 13:18:52 | noted |
| S3-220425 | 28/02/2022 13:20:25 | noted |
| S3-220426 | 01/03/2022 14:03:58 | noted |
| S3-220427 | 01/03/2022 14:04:27 | noted |
| S3-220428 | 28/02/2022 13:19:52 | noted |
| S3-220430 | 01/03/2022 10:56:29 | noted |
| S3-220431 | 28/02/2022 13:07:53 | noted |
| S3-220432 | 01/03/2022 10:54:31 | noted |
| S3-220433 | 01/03/2022 10:56:20 | noted |
| S3-220434 | 01/03/2022 10:56:40 | noted |
| S3-220435 | 01/03/2022 10:18:49 | available |
| S3-220437 | 01/03/2022 15:58:13 | noted |
| S3-220438 | 01/03/2022 16:26:38 | noted |
| S3-220439 | 01/03/2022 16:24:01 | noted |
| S3-220440 | 01/03/2022 16:24:09 | available |
| S3-220441 | 01/03/2022 13:39:57 | noted |
| S3-220442 | 01/03/2022 13:39:58 | noted |
| S3-220443 | 28/02/2022 13:55:05 | available |
| S3-220443 | 28/02/2022 13:56:56 | postponed |
| S3-220443 | 01/03/2022 13:27:57 | noted |
| S3-220444 | 28/02/2022 13:57:22 | postponed |
| S3-220445 | 01/03/2022 10:19:29 | noted |
| S3-220446 | 01/03/2022 15:50:50 | approved |
| S3-220447 | 01/03/2022 14:57:40 | agreed |
| S3-220448 | 01/03/2022 14:58:02 | agreed |
| S3-220449 | 01/03/2022 14:58:04 | agreed |
| S3-220450 | 01/03/2022 16:08:24 | agreed |
| S3-220451 | 01/03/2022 14:25:29 | approved |
| S3-220452 | 01/03/2022 14:25:31 | approved |
| S3-220453 | 01/03/2022 16:25:37 | approved |
| S3-220454 | 01/03/2022 15:11:41 | agreed |
| S3-220455 | 01/03/2022 15:47:39 | agreed |
| S3-220456 | 01/03/2022 15:47:52 | agreed |
| S3-220457 | 01/03/2022 15:47:56 | agreed |
| S3-220458 | 01/03/2022 15:48:03 | agreed |
| S3-220459 | 01/03/2022 15:48:04 | agreed |
| S3-220460 | 01/03/2022 15:48:10 | agreed |
| S3-220461 | 01/03/2022 10:12:34 | agreed |
| S3-220462 | 01/03/2022 15:48:26 | agreed |
| S3-220463 | 28/02/2022 13:09:02 | approved |
| S3-220464 | 28/02/2022 13:17:39 | approved |
| S3-220465 | 01/03/2022 14:06:57 | agreed |
| S3-220466 | 01/03/2022 14:06:59 | agreed |
| S3-220467 | 01/03/2022 14:07:18 | agreed |
| S3-220468 | 01/03/2022 14:54:16 | approved |
| S3-220469 | 28/02/2022 13:24:26 | approved |
| S3-220470 | 28/02/2022 13:32:43 | approved |
| S3-220471 | 01/03/2022 10:16:32 | agreed |
| S3-220472 | 01/03/2022 15:42:19 | agreed |
| S3-220473 | 01/03/2022 15:42:23 | agreed |
| S3-220474 | 01/03/2022 13:44:06 | approved |
| S3-220475 | 01/03/2022 14:58:40 | agreed |
| S3-220476 | 01/03/2022 14:58:46 | agreed |
| S3-220477 | 01/03/2022 14:58:48 | agreed |
| S3-220478 | 01/03/2022 14:58:57 | agreed |
| S3-220479 | 01/03/2022 14:58:58 | agreed |
| S3-220480 | 01/03/2022 14:09:48 | approved |
| S3-220481 | 01/03/2022 14:55:29 | agreed |
| S3-220482 | 01/03/2022 10:52:04 | approved |
| S3-220483 | 01/03/2022 16:22:38 | agreed |
| S3-220484 | 01/03/2022 15:58:24 | reserved |
| S3-220484 | 04/03/2022 10:12:26 | approved |
| S3-220485 | 01/03/2022 14:23:21 | approved |
| S3-220486 | 01/03/2022 14:23:23 | approved |
| S3-220487 | 01/03/2022 16:27:44 | approved |
| S3-220488 | 01/03/2022 10:52:09 | approved |
| S3-220489 | 01/03/2022 13:48:15 | agreed |
| S3-220490 | 01/03/2022 15:56:08 | approved |
| S3-220492 | 01/03/2022 16:27:31 | approved |
| S3-220493 | 01/03/2022 10:40:16 | approved |
| S3-220494 | 01/03/2022 15:48:50 | agreed |
| S3-220495 | 01/03/2022 10:15:13 | agreed |
| S3-220496 | 01/03/2022 10:17:56 | agreed |
| S3-220497 | 01/03/2022 10:18:38 | agreed |
| S3-220498 | 01/03/2022 14:21:32 | approved |
| S3-220499 | 28/02/2022 13:48:15 | available |
| S3-220500 | 01/03/2022 15:37:54 | agreed |
| S3-220501 | 01/03/2022 14:04:51 | agreed |
| S3-220502 | 01/03/2022 15:39:33 | agreed |
| S3-220503 | 01/03/2022 14:09:02 | agreed |
| S3-220504 | 01/03/2022 14:25:44 | approved |
| S3-220505 | 28/02/2022 13:59:15 | approved |
| S3-220506 | 28/02/2022 14:01:35 | agreed |
| S3-220507 | 01/03/2022 15:41:23 | agreed |
| S3-220508 | 01/03/2022 15:36:26 | agreed |
| S3-220509 | 01/03/2022 15:36:29 | agreed |
| S3-220510 | 01/03/2022 15:36:32 | approved |
| S3-220511 | 01/03/2022 14:21:33 | approved |
| S3-220512 | 01/03/2022 14:22:33 | approved |
| S3-220513 | 01/03/2022 16:07:25 | approved |
| S3-220514 | 01/03/2022 14:24:20 | approved |
| S3-220515 | 01/03/2022 14:24:23 | approved |
| S3-220516 | 01/03/2022 14:24:37 | approved |
| S3-220517 | 01/03/2022 14:25:19 | reserved |
| S3-220517 | 03/03/2022 09:57:47 | approved |
| S3-220518 | 28/02/2022 13:48:46 | approved |
| S3-220519 | 28/02/2022 14:08:12 | agreed |
| S3-220520 | 01/03/2022 14:02:55 | agreed |
| S3-220521 | 01/03/2022 13:40:08 | reserved |
| S3-220521 | 03/03/2022 09:57:51 | approved |
| S3-220521 | 03/03/2022 09:57:54 | agreed |
| S3-220522 | 28/02/2022 14:05:03 | agreed |
| S3-220523 | 01/03/2022 10:57:15 | approved |
| S3-220524 | 28/02/2022 13:59:39 | approved |
| S3-220525 | 01/03/2022 14:25:49 | noted |
| S3-220526 | 28/02/2022 14:00:01 | approved |
| S3-220527 | 01/03/2022 12:35:27 | approved |
| S3-220528 | 02/03/2022 12:10:53 | approved |
| S3-220529 | 28/02/2022 13:09:43 | agreed |
| S3-220530 | 01/03/2022 13:53:24 | agreed |
| S3-220531 | 01/03/2022 14:02:08 | agreed |
| S3-220532 | 01/03/2022 14:02:15 | agreed |
| S3-220533 | 03/03/2022 09:54:07 | approved |
| S3-220534 | 28/02/2022 14:00:36 | approved |
| S3-220535 | 28/02/2022 14:07:36 | agreed |
| S3-220536 | 01/03/2022 10:03:40 | agreed |
| S3-220537 | 28/02/2022 13:20:50 | approved |
| S3-220538 | 01/03/2022 14:00:17 | agreed |
| S3-220539 | 01/03/2022 12:35:34 | approved |
| S3-220540 | 01/03/2022 13:51:16 | agreed |
| S3-220541 | 28/02/2022 13:52:22 | approved |
| S3-220542 | 01/03/2022 13:53:40 | available |
| S3-220543 | 28/02/2022 13:16:30 | approved |
| S3-220544 | 28/02/2022 13:53:23 | approved |
| S3-220545 | 01/03/2022 10:59:54 | approved |
| S3-220546 | 01/03/2022 11:00:16 | approved |
| S3-220547 | 01/03/2022 11:00:27 | approved |
| S3-220548 | 01/03/2022 11:00:34 | approved |
| S3-220549 | 01/03/2022 11:00:55 | approved |
| S3-220550 | 01/03/2022 13:41:28 | approved |
| S3-220551 | 01/03/2022 13:41:44 | agreed |
| S3-220552 | 01/03/2022 13:42:06 | approved |
| S3-220553 | 01/03/2022 10:24:43 | approved |
| S3-220554 | 01/03/2022 10:39:18 | approved |
| S3-220555 | 01/03/2022 16:24:30 | agreed |
| S3-220556 | 28/02/2022 14:01:47 | agreed |
| S3-220557 | 01/03/2022 13:42:30 | approved |
| S3-220558 | 01/03/2022 13:42:32 | approved |
| S3-220559 | 01/03/2022 13:42:38 | approved |
| S3-220560 | 04/03/2022 07:10:43 | approved |
| S3-220561 | 04/03/2022 07:10:44 | approved |
| S3-220562 | 04/03/2022 07:10:45 | approved |
| S3-220563 | 01/03/2022 13:57:14 | agreed |
| S3-220564 | 01/03/2022 10:58:38 | approved |
| S3-220565 | 01/03/2022 10:58:42 | approved |
| S3-220566 | 01/03/2022 13:42:58 | approved |
| S3-220567 | 01/03/2022 13:43:03 | reserved |
| S3-220567 | 04/03/2022 10:12:31 | approved |
| S3-220568 | 03/03/2022 09:54:01 | approved |
| S3-220569 | 28/02/2022 14:02:37 | agreed |
| S3-220570 | 28/02/2022 14:00:45 | approved |
| S3-220571 | 28/02/2022 13:57:33 | withdrawn |
| S3-220571 | 01/03/2022 13:29:42 | reserved |
| S3-220571 | 04/03/2022 07:11:00 | approved |
| S3-220572 | 01/03/2022 10:59:09 | approved |
| S3-220573 | 01/03/2022 14:03:06 | agreed |
| S3-220574 | 01/03/2022 10:53:42 | agreed |
| S3-220575 | 01/03/2022 10:54:52 | approved |
| S3-220576 | 01/03/2022 10:55:59 | approved |
| S3-220577 | 01/03/2022 10:55:30 | approved |
| S3-220578 | 01/03/2022 10:55:34 | approved |
| S3-220579 | 28/02/2022 13:14:05 | approved |
| S3-220580 | 04/03/2022 08:49:32 | approved |
| S3-220581 | 04/03/2022 08:49:32 | approved |
| S3-220582 | 01/03/2022 11:02:07 | approved |
| S3-220583 | 01/03/2022 11:01:36 | reserved |
| S3-220583 | 03/03/2022 09:58:41 | approved |
| S3-220584 | 01/03/2022 14:01:46 | agreed |
| S3-220585 | 01/03/2022 11:02:33 | approved |
| S3-220586 | 01/03/2022 16:34:52 | agreed |
| S3-220587 | 01/03/2022 15:09:48 | noted |
| S3-220588 | 01/03/2022 16:05:14 | approved |
| S3-220589 | 03/03/2022 09:57:01 | agreed |
| S3-220590 | 03/03/2022 09:57:02 | agreed |
| S3-220591 | 03/03/2022 09:57:03 | agreed |
| S3-220592 | 03/03/2022 07:57:57 | available |
| S3-220592 | 03/03/2022 09:55:12 | agreed |
| S3-220593 | 03/03/2022 09:56:30 | agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-220316 | Using MACS as a freshness parameter in the calculation of AK\* | Qualcomm Incorporated, Thales | 33.102 | 0282 | - | Rel-17 | F | AUTH\_ENH | agreed |
| S3-220056 | [33.180] R18 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0185 | - | Rel-18 | F | eMCSec | withdrawn |
| S3-220069 | [33.180] R16 Clarification requested by ETSI Plugtest | Motorola Solutions Danmark A/S | 33.180 | 0186 | - | Rel-16 | F | MCXSec | agreed |
| S3-220070 | [33.180] R17 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0187 | - | Rel-17 | A | MCXSec | agreed |
| S3-220071 | [33.180] R18 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0188 | - | Rel-18 | A | MCXSec | not pursued |
| S3-220291 | Authorization between MCData message store and MCData Server | Samsung | 33.180 | 0189 | - | Rel-17 | B | MCXSec2 | revised |
| S3-220494 | Authorization between MCData message store and MCData Server | Samsung | 33.180 | 0189 | 1 | Rel-17 | B | MCXSec2 | agreed |
| S3-220407 | Adding Reference to RFC 7235 in TS 33.203 | Ericsson | 33.203 | 0263 | - | Rel-17 | F | eCryptPr | agreed |
| S3-220319 | Adding a new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | 33.220 | 0215 | - | Rel-17 | F | eCryptPr | not pursued |
| S3-220318 | Adding a Note about the new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | 33.222 | 0057 | - | Rel-17 | F | eCryptPr | not pursued |
| S3-220241 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | 33.310 | 0125 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-220475 | Correction of the format of the URN string in the NF certificate profile | Ericsson | 33.310 | 0125 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-220242 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | 33.310 | 0126 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-220476 | Correction of the format of the URN string in the NF certificate profile | Ericsson | 33.310 | 0126 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-220401 | Editorial corrections to Annex F of IMS | Nokia, Nokia Shanghai Bell | 33.328 | 0069 | - | Rel-17 | D | TEI17 | agreed |
| S3-220061 | Align GUTI allocation to best practices of unpredictable identifier generation. | Deutsche Telekom AG | 33.401 | 0702 | - | Rel-17 | F | TEI17 | revised |
| S3-220455 | Align GUTI allocation to best practices of unpredictable identifier generation. | Deutsche Telekom AG | 33.401 | 0702 | 1 | Rel-17 | F | TEI17 | agreed |
| S3-220174 | Report UP IP Security Result | Huawei, HiSilicon | 33.401 | 0703 | - | Rel-17 | F | UPIP\_SEC\_LTE | not pursued |
| S3-220303 | UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17 | Ericsson | 33.401 | 0704 | - | Rel-17 | F | UPIP\_SEC\_LTE | revised |
| S3-220462 | UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17 | Ericsson | 33.401 | 0704 | 1 | Rel-17 | F | UPIP\_SEC\_LTE | agreed |
| S3-220341 | Updating SEAL-S security | Ericsson | 33.434 | 0005 | - | Rel-17 | B | eSEAL | agreed |
| S3-220342 | Updating SEAL-UU security | Ericsson | 33.434 | 0006 | - | Rel-17 | B | eSEAL | agreed |
| S3-220343 | Profiling ACE in SEAL | Ericsson | 33.434 | 0007 | - | Rel-17 | B | eSEAL | agreed |
| S3-220345 | Correcting the implementation of approved S3-214431 to SEAL TS 33.434 | Ericsson | 33.434 | 0008 | - | Rel-17 | F | eSEAL | revised |
| S3-220456 | Correcting the implementation of approved S3-214431 to SEAL TS 33.434 | Ericsson | 33.434 | 0008 | 1 | Rel-17 | F | eSEAL | agreed |
| S3-220347 | Rel-16 CAPIF usage for SEAL-S | Ericsson | 33.434 | 0009 | - | Rel-16 | F | SEAL | revised |
| S3-220457 | Rel-16 CAPIF usage for SEAL-S | Ericsson | 33.434 | 0009 | 1 | Rel-16 | F | SEAL | agreed |
| S3-220348 | Rel-17 CAPIF usage for SEAL-S | Ericsson | 33.434 | 0010 | - | Rel-17 | A | SEAL | revised |
| S3-220458 | Rel-17 CAPIF usage for SEAL-S | Ericsson | 33.434 | 0010 | 1 | Rel-17 | A | SEAL | agreed |
| S3-220349 | Rel-16 Correcting SEAL-UU security | Ericsson | 33.434 | 0011 | - | Rel-16 | F | SEAL | revised |
| S3-220459 | Rel-16 Correcting SEAL-UU security | Ericsson | 33.434 | 0011 | 1 | Rel-16 | F | SEAL | agreed |
| S3-220350 | Rel-17 Correcting SEAL-UU security | Ericsson | 33.434 | 0012 | - | Rel-17 | A | SEAL | revised |
| S3-220460 | Rel-17 Correcting SEAL-UU security | Ericsson | 33.434 | 0012 | 1 | Rel-17 | A | SEAL | agreed |
| S3-220082 | Integrity check during context transfer scenario 2 | NEC Telecom MODUS Ltd. | 33.501 | 1211 | 1 | Rel-17 | F | TEI17 | not pursued |
| S3-220064 | OAuth2.0 misalignmnet | Mavenir | 33.501 | 1258 | - | Rel-16 | F | 5G\_eSBA | withdrawn |
| S3-220065 | OAuth2.0 misalignmnet | Mavenir | 33.501 | 1259 | - | Rel-17 | A | 5G\_eSBA | withdrawn |
| S3-220066 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | 33.501 | 1260 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-220465 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | 33.501 | 1260 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-220067 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | 33.501 | 1261 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-220466 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | 33.501 | 1261 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-220083 | Editor note removal from Annex S | Nokia, Nokia Shanghai Bell | 33.501 | 1262 | - | Rel-17 | F | NSWO\_5G | revised |
| S3-220467 | Editor note removal from Annex S | Nokia, Nokia Shanghai Bell,Huawei, HiSilicon | 33.501 | 1262 | 1 | Rel-17 | F | NSWO\_5G | agreed |
| S3-220084 | Verification of NSSAIs for preventing slice attack | CableLabs | 33.501 | 1263 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-220091 | Resolve the EN in 5MBS | ZTE Corporation | 33.501 | 1264 | - | Rel-17 | F | 5MBS | merged |
| S3-220092 | Clean up for 5MBS | ZTE Corporation | 33.501 | 1265 | - | Rel-17 | F | 5MBS | merged |
| S3-220102 | CR to 33.501 about AUSF instance store in UDM | ZTE Corporation | 33.501 | 1266 | - | Rel-17 | F | 5G\_ProSe | not pursued |
| S3-220107 | Delete EN on defining EIA7 in clause 6.6.4.3 | ZTE Corporation | 33.501 | 1267 | - | Rel-17 | F | TEI17 | agreed |
| S3-220109 | Verification of NSSAIs for preventing slice attack | CableLabs | 33.501 | 1268 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-220114 | CR for AF Authorization for accessing network slice quota-usage information | Huawei, HiSilicon | 33.501 | 1269 | - | Rel-17 | B | eNS2\_SEC | revised |
| S3-220530 | CR for AF Authorization for accessing network slice quota-usage information | Huawei, HiSilicon | 33.501 | 1269 | 1 | Rel-17 | B | eNS2\_SEC | agreed |
| S3-220117 | Serving network name in NSSAA | Huawei, HiSilicon | 33.501 | 1270 | - | Rel-16 | F | eNS | not pursued |
| S3-220145 | CR - 33501 - Clarification on Fast re-authentication | Apple | 33.501 | 1271 | - | Rel-17 | F | TEI17 | not pursued |
| S3-220155 | Clarifcation and corrections to UE Onboarding in SNPNs | Intel | 33.501 | 1272 | - | Rel-17 | F | eNPN | merged |
| S3-220156 | Clarification and corrections to NSWO SBI Interface methods | Intel | 33.501 | 1273 | - | Rel-17 | F | NSWO\_5G | revised |
| S3-220481 | Clarification and corrections to NSWO SBI Interface methods | Intel, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 1273 | 1 | Rel-17 | F | NSWO\_5G | agreed |
| S3-220162 | Resolution of authorization issue | Huawei, HiSilicon | 33.501 | 1274 | - | Rel-17 | F | 5MBS | revised |
| S3-220535 | Resolution of authorization issue | Huawei, HiSilicon | 33.501 | 1274 | 1 | Rel-17 | F | 5MBS | agreed |
| S3-220163 | update to User-plane procedure for MBS security | Huawei, HiSilicon | 33.501 | 1275 | - | Rel-17 | F | 5MBS | not pursued |
| S3-220164 | Corrections and clarifications in the security mechanisms for MBS | Huawei, HiSilicon | 33.501 | 1276 | - | Rel-17 | F | 5MBS | revised |
| S3-220536 | Corrections and clarifications in the security mechanisms for MBS | Huawei, HiSilicon | 33.501 | 1276 | 1 | Rel-17 | F | 5MBS | agreed |
| S3-220171 | Delete Editor's Note in NSWO | Huawei, HiSilicon | 33.501 | 1277 | - | Rel-17 | F | TEI17 | merged |
| S3-220175 | User consent requirements and procedures for eNA | Huawei, HiSilicon | 33.501 | 1278 | - | Rel-17 | B | UC3S\_SEC | not pursued |
| S3-220177 | Delete Editor's Note in UC3S | Huawei, HiSilicon | 33.501 | 1279 | - | Rel-17 | F | UC3S\_SEC | revised |
| S3-220489 | Delete Editor's Note in UC3S | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1279 | 1 | Rel-17 | F | UC3S\_SEC | agreed |
| S3-220184 | Secondary authentication for MBS sessions | Huawei, HiSilicon | 33.501 | 1280 | - | Rel-17 | F | 5MBS | not pursued |
| S3-220187 | User Consent Requirements and Procedures for MEC | Huawei, HiSilicon | 33.501 | 1281 | - | Rel-17 | B | UC3S\_SEC | not pursued |
| S3-220188 | Clarification on MSK and anonymous SUPI usage | Huawei, HiSilicon | 33.501 | 1282 | - | Rel-17 | F | eNPN | not pursued |
| S3-220191 | Refer to User Consent Requirements for eNA | Huawei, HiSilicon | 33.501 | 1283 | - | Rel-17 | F | eNA\_Ph2 | revised |
| S3-220540 | Refer to User Consent Requirements for eNA | Huawei, HiSilicon | 33.501 | 1283 | 1 | Rel-17 | F | eNA\_Ph2 | agreed |
| S3-220204 | EAP ID Request in NSSAA Procedure (Rel-16) | Ericsson | 33.501 | 1284 | - | Rel-16 | F | TEI16 | not pursued |
| S3-220207 | EAP ID Request in NSSAA Procedure (Rel-17) | Ericsson | 33.501 | 1285 | - | Rel-17 | A | TEI16 | not pursued |
| S3-220215 | UDM interaction for anonymous SUCI | Ericsson | 33.501 | 1286 | - | Rel-17 | F | eNPN | not pursued |
| S3-220218 | Anonymous SUCI for initial access | Ericsson | 33.501 | 1287 | - | Rel-17 | F | eNPN | not pursued |
| S3-220219 | Removing Editor’s note on SUPI for initial access for onboarding | Ericsson | 33.501 | 1288 | - | Rel-17 | F | eNPN | not pursued |
| S3-220220 | Removing Editor’s note on SUPI sent to AAA | Ericsson | 33.501 | 1289 | - | Rel-17 | F | eNPN | revised |
| S3-220461 | Removing Editor’s note on SUPI sent to AAA | Ericsson | 33.501 | 1289 | 1 | Rel-17 | F | eNPN | agreed |
| S3-220221 | Removing Editor’s note on AAA interface | Ericsson | 33.501 | 1290 | - | Rel-17 | F | eNPN | merged |
| S3-220222 | Rel-17 SUPI Privacy for SNPN | Ericsson | 33.501 | 1291 | - | Rel-17 | A | Vertical\_LAN\_SEC | not pursued |
| S3-220223 | Rel-16 SUPI Privacy for SNPN | Ericsson | 33.501 | 1292 | - | Rel-16 | F | Vertical\_LAN\_SEC | not pursued |
| S3-220224 | Rel-17 security aspects on MINT feature | LG Electronics Inc. | 33.501 | 1293 | - | Rel-17 | B | DUMMY | agreed |
| S3-220225 | Clarification on AS security aspect in 5MBS | LG Electronics Inc. | 33.501 | 1294 | - | Rel-17 | D | 5MBS | revised |
| S3-220519 | Clarification on AS security aspect in 5MBS | LG Electronics Inc. | 33.501 | 1294 | 1 | Rel-17 | F | 5MBS | agreed |
| S3-220227 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501 | LG Electronics Inc. | 33.501 | 1295 | - | Rel-17 | A | TEI15 | revised |
| S3-220447 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501 | LG Electronics Inc. | 33.501 | 1295 | 1 | Rel-17 | A | TEI15 | agreed |
| S3-220229 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung | 33.501 | 1296 | - | Rel-17 | F | TEI17 | not pursued |
| S3-220233 | Clarification on IV usage on N32-f protection-R15 | Huawei, HiSilicon | 33.501 | 1297 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-220234 | Clarification on IV usage on N32-f protection-R16 | Huawei, HiSilicon | 33.501 | 1298 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-220235 | Clarification on IV usage on N32-f protection-R17 | Huawei, HiSilicon | 33.501 | 1299 | - | Rel-17 | A | 5GS\_Ph1-SEC | not pursued |
| S3-220240 | SN name verification in eNPN | Huawei, HiSilicon | 33.501 | 1300 | - | Rel-17 | B | eNPN | not pursued |
| S3-220247 | Further alignment with TS 29.573 to clarify that N32-c is short-lived | Ericsson | 33.501 | 1301 | - | Rel-16 | F | 5G\_eSBA | merged |
| S3-220248 | Further alignment with TS 29.573 to clarify that N32-c is short-lived | Ericsson | 33.501 | 1302 | - | Rel-17 | A | 5G\_eSBA | merged |
| S3-220250 | Removing Editor's Note on PNi-NPN security aspects | Ericsson | 33.501 | 1303 | - | Rel-16 | F | Vertical\_LAN\_SEC | agreed |
| S3-220251 | Removing Editor's Note on PNi-NPN security aspects | Ericsson | 33.501 | 1304 | - | Rel-17 | A | Vertical\_LAN\_SEC | agreed |
| S3-220253 | Removing Editor’s note on using only null-scheme SUCI | Ericsson | 33.501 | 1305 | - | Rel-17 | F | eNPN | not pursued |
| S3-220254 | Removing Editor’s notes on AUSF selection and alignment with TS 23.501 | Ericsson | 33.501 | 1306 | - | Rel-17 | F | eNPN | merged |
| S3-220255 | Removing Editor’s note on Credentials Holder using AUSF and UDM for primary authentication | Ericsson | 33.501 | 1307 | - | Rel-17 | F | eNPN | agreed |
| S3-220256 | Removing Editor’s note on additional requirements for primary authentication for onboarding. | Ericsson | 33.501 | 1308 | - | Rel-17 | F | eNPN | not pursued |
| S3-220257 | Editorial for the Figure on key hierarchy for Credentials Holder using AAA | Ericsson | 33.501 | 1309 | - | Rel-17 | F | eNPN | agreed |
| S3-220258 | Rel-15 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501 | Ericsson | 33.501 | 1310 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-220259 | Rel-16 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501 | Ericsson | 33.501 | 1311 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-220260 | Rel-17 - Updating reference to RFC 9048 (EAP-AKA’) in TS 33.501 | Ericsson | 33.501 | 1312 | - | Rel-17 | A | 5GS\_Ph1-SEC | agreed |
| S3-220265 | Removal of EN in 5GMSG security | China Mobile | 33.501 | 1313 | - | Rel-17 | F | 5GMSG | not pursued |
| S3-220266 | Update of NSWO authentication procedure and SBA service operations | Ericsson, Thales | 33.501 | 1314 | - | Rel-17 | F | NSWO\_5G | not pursued |
| S3-220267 | Resolve Editor Note related to co-existence of EPS NSWO | Ericsson | 33.501 | 1315 | - | Rel-17 | F | NSWO\_5G | merged |
| S3-220268 | Roaming for 5G NSWO | Ericsson | 33.501 | 1316 | - | Rel-17 | F | NSWO\_5G | merged |
| S3-220283 | Usage of AN ID for NSWO authentication | Ericsson | 33.501 | 1317 | - | Rel-17 | F | NSWO\_5G | agreed |
| S3-220284 | Alternative solution for NSWO authentication | Ericsson | 33.501 | 1318 | - | Rel-17 | F | NSWO\_5G | not pursued |
| S3-220290 | Resolving EN on authorization in MSGin5G | Samsung | 33.501 | 1319 | - | Rel-17 | B | 5GMSG | revised |
| S3-220593 | Resolving EN on authorization in MSGin5G | Samsung | 33.501 | 1319 | 1 | Rel-17 | F | 5GMSG | agreed |
| S3-220292 | PDCP COUNT check for MRB | Samsung | 33.501 | 1320 | - | Rel-17 | B | 5MBS | not pursued |
| S3-220293 | MBS capability exchange and delivery method | Samsung | 33.501 | 1321 | - | Rel-17 | B | 5MBS | not pursued |
| S3-220294 | Security indication in MBS security context | Samsung | 33.501 | 1322 | - | Rel-17 | B | 5MBS | revised |
| S3-220592 | Security indication in MBS security context | Samsung | 33.501 | 1322 | 1 | Rel-17 | B | 5MBS | agreed |
| S3-220295 | Clarification to IAB in EN-DC architecture | Samsung | 33.501 | 1323 | - | Rel-17 | F | NR\_IAB | agreed |
| S3-220298 | Updates to NF profile for inter-slice access control | Samsung | 33.501 | 1324 | - | Rel-17 | B | TEI17 | not pursued |
| S3-220334 | Correct NAS uplink COUNT for KgNB/KeNB derivation | Qualcomm Incorporated | 33.501 | 1325 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-220335 | Clarifcation and corrections to UE Onboarding in SNPNs | Qualcomm Incorporated, Nokia, Nokia Shanghai Bell | 33.501 | 1326 | - | Rel-17 | F | eNPN | revised |
| S3-220471 | Clarifcation and corrections to UE Onboarding in SNPNs | Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Intel | 33.501 | 1326 | 1 | Rel-17 | F | eNPN | agreed |
| S3-220336 | Co-existence with EPS NSWO | Qualcomm Incorporated | 33.501 | 1327 | - | Rel-17 | F | NSWO\_5G | revised |
| S3-220472 | Co-existence with EPS NSWO | Qualcomm Incorporated, Ericsson | 33.501 | 1327 | 1 | Rel-17 | F | NSWO\_5G | agreed |
| S3-220337 | 5G NSWO roaming aspects | Qualcomm Incorporated | 33.501 | 1328 | - | Rel-17 | F | NSWO\_5G | revised |
| S3-220473 | 5G NSWO roaming aspects | Qualcomm Incorporated, Ericsson | 33.501 | 1328 | 1 | Rel-17 | B | NSWO\_5G | agreed |
| S3-220368 | SBA service operations for Prose L3 U2N security CP solution | Ericsson | 33.501 | 1329 | - | Rel-17 | B | 5G\_ProSe | revised |
| S3-220551 | SBA service operations for Prose L3 U2N security CP solution | Ericsson | 33.501 | 1329 | 1 | Rel-17 | B | 5G\_ProSe | agreed |
| S3-220383 | User consent revocation | Nokia, Nokia Shanghai Bell | 33.501 | 1330 | - | Rel-17 | F | UC3S\_SEC | merged |
| S3-220384 | User consent enforcement point | Nokia, Nokia Shanghai Bell | 33.501 | 1331 | - | Rel-17 | F | UC3S\_SEC | not pursued |
| S3-220392 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | 33.501 | 1332 | - | Rel-15 | F | TEI15 | revised |
| S3-220589 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom | 33.501 | 1332 | 1 | Rel-15 | F | TEI15 | agreed |
| S3-220393 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | 33.501 | 1333 | - | Rel-16 | A | TEI15 | revised |
| S3-220590 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom | 33.501 | 1333 | 1 | Rel-16 | A | TEI15 | agreed |
| S3-220394 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | 33.501 | 1334 | - | Rel-17 | A | TEI15 | revised |
| S3-220591 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom | 33.501 | 1334 | 1 | Rel-17 | A | TEI15 | agreed |
| S3-220396 | NRF deployments | Nokia, Nokia Shanghai Bell | 33.501 | 1335 | - | Rel-17 | F | TEI17 | not pursued |
| S3-220397 | SEPP reference | Nokia, Nokia Shanghai Bell | 33.501 | 1336 | - | Rel-17 | F | TEI17 | agreed |
| S3-220398 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | 33.501 | 1337 | - | Rel-16 | F | TEI16 | revised |
| S3-220508 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | 33.501 | 1337 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-220399 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | 33.501 | 1338 | - | Rel-17 | A | TEI16 | revised |
| S3-220509 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | 33.501 | 1338 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-220400 | Using existing authentication services for NSWO | Nokia, Nokia Shanghai Bell | 33.501 | 1339 | - | Rel-17 | F | NSWO\_5G | merged |
| S3-220402 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | 33.501 | 1340 | - | Rel-15 | F | TEI15 | not pursued |
| S3-220403 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | 33.501 | 1341 | - | Rel-16 | A | TEI15 | not pursued |
| S3-220404 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | 33.501 | 1342 | - | Rel-17 | A | TEI15 | not pursued |
| S3-220411 | Update of references for the GBA related UDM service operations | Ericsson | 33.501 | 1343 | - | Rel-17 | F | GBA\_5G | agreed |
| S3-220413 | Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation | Ericsson | 33.501 | 1344 | - | Rel-17 | F | TEI17 | revised |
| S3-220454 | Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation | Ericsson | 33.501 | 1344 | 1 | Rel-17 | F | TEI17 | agreed |
| S3-220415 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) (future proof alternative) | NTT DOCOMO INC. | 33.501 | 1345 | - | Rel-17 | C | eCPSOR\_CON | revised |
| S3-220529 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) | NTT DOCOMO INC. | 33.501 | 1345 | 1 | Rel-17 | C | TEI17 | agreed |
| S3-220416 | CR to 33.501 to protect CPSOR-CMCI information only (alternative to S3-220415) | NTT DOCOMO INC. | 33.501 | 1346 | - | Rel-17 | C | eCPSOR\_CON | not pursued |
| S3-220417 | Resolution of editor’s note related to NSSAAF and AUSF selection | Nokia, Nokia Shanghai Bell | 33.501 | 1347 | - | Rel-17 | F | eNPN | revised |
| S3-220495 | Resolution of editor’s note related to NSSAAF and AUSF selection | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1347 | 1 | Rel-17 | F | eNPN | agreed |
| S3-220418 | Resolution of editor notes related SUPI usage and forwarding | Nokia, Nokia Shanghai Bell | 33.501 | 1348 | - | Rel-17 | F | eNPN | merged |
| S3-220419 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | 33.501 | 1349 | - | Rel-17 | F | eNPN | revised |
| S3-220496 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | 33.501 | 1349 | 1 | Rel-17 | F | eNPN | agreed |
| S3-220420 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell | 33.501 | 1350 | - | Rel-17 | F | eNPN | revised |
| S3-220497 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1350 | 1 | Rel-17 | F | eNPN | agreed |
| S3-220423 | Deletion of the usage of NGAP PATH SWITCH REQUEST ACKNOWLEDGE message for AS rekeying during Xn-Handover | NTT DOCOMO INC. | 33.501 | 1351 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-220500 | Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2 | NTT DOCOMO INC. | 33.501 | 1351 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-220435 | Update to Clause 1.9 for Onboarding Initial Access | Lenovo, Motorola Mobility | 33.501 | 1352 | - | Rel-17 | B | eNPN | not pursued |
| S3-220448 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501(R15) | LG Electronics Inc. | 33.501 | 1353 | - | Rel-15 | F | TEI15 | agreed |
| S3-220449 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501(R16) | LG Electronics Inc. | 33.501 | 1354 | - | Rel-16 | A | TEI15 | agreed |
| S3-220501 | Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2. | NTT DOCOMO INC. | 33.501 | 1355 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-220502 | Remove ambiguous phrase for rekeying error scenario in clause 6.9.2.3.2. | NTT DOCOMO INC. | 33.501 | 1356 | - | Rel-17 | A | 5GS\_Ph1-SEC | agreed |
| S3-220236 | Clarification on origination of the Rel17 SCAS test cases in AMF | Huawei, Hisilicon | 33.512 | 0022 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-220503 | Clarification on origination of the Rel17 SCAS test cases in AMF | Huawei, Hisilicon | 33.512 | 0022 | 1 | Rel-17 | F | eSCAS\_5G | agreed |
| S3-220386 | Reference to SCP-specific requirements | Nokia, Nokia Shanghai Bell | 33.522 | 0001 | - | Rel-17 | F | SCAS\_5G\_SECOP | revised |
| S3-220506 | Reference to SCP-specific requirements | Nokia, Nokia Shanghai Bell | 33.522 | 0001 | 1 | Rel-17 | F | SCAS\_5G\_SECOP | agreed |
| S3-220387 | Reference to other 3GPP specs | Nokia, Nokia Shanghai Bell | 33.522 | 0002 | - | Rel-17 | F | SCAS\_5G\_SECOP | agreed |
| S3-220087 | Add a Note about the Kaf refresh | ZTE Corporation | 33.535 | 0115 | - | Rel-17 | F | AKMA | revised |
| S3-220556 | Add a Note about the Kaf refresh | ZTE Corporation | 33.535 | 0115 | 1 | Rel-17 | F | AKMA | agreed |
| S3-220088 | Add function description about AAnF in 4.2.1 | ZTE Corporation | 33.535 | 0116 | - | Rel-17 | F | AKMA | agreed |
| S3-220089 | Clarification on the NF consumer in 6.6.1 | ZTE Corporation | 33.535 | 0117 | - | Rel-17 | F | AKMA | not pursued |
| S3-220090 | Clarification on UDM manage AKMA subscription data in 4.2.5 | ZTE Corporation | 33.535 | 0118 | - | Rel-17 | F | AKMA | not pursued |
| S3-220095 | Add description about error case in annex B | ZTE Corporation | 33.535 | 0119 | - | Rel-17 | F | AKMA\_TLS | not pursued |
| S3-220285 | Clarification on AKMA Application key retrieval | Samsung, ZTE | 33.535 | 0120 | - | Rel-17 | B | AKMA | not pursued |
| S3-220286 | New AAnF application key get service without SUPI | Samsung, Verizon | 33.535 | 0121 | - | Rel-17 | B | AKMA | revised |
| S3-220569 | New AAnF application key get service without SUPI | Samsung, Verizon | 33.535 | 0121 | 1 | Rel-17 | B | AKMA | agreed |
| S3-220301 | Clarification on indication to UE when KAF is expired | LG Electronics France | 33.535 | 0122 | - | Rel-17 | B | AKMA | revised |
| S3-220522 | Clarification on indication to UE when KAF is expired | LG Electronics France | 33.535 | 0122 | 1 | Rel-17 | B | AKMA | agreed |
| S3-220304 | Clean up for TS 33.535 | LG Electronics France | 33.535 | 0123 | - | Rel-17 | D | AKMA | agreed |
| S3-220320 | Adding text on preferring AKMA keys to GBA Digest | Qualcomm Incorporated | 33.535 | 0124 | - | Rel-17 | F | AKMA\_TLS | revised |
| S3-220574 | Adding text on preferring AKMA keys to GBA Digest | Qualcomm Incorporated | 33.535 | 0124 | 1 | Rel-17 | F | AKMA\_TLS | agreed |
| S3-220139 | MEC - TR - Conclusion for KI#1 and KI#2. | Apple | 33.839 | 0001 | - | Rel-17 | B | FS\_eEDGE\_Sec | not pursued |
| S3-220140 | MEC - TR - Authentication between EEC and ECS based on TLS-PSK | Apple | 33.839 | 0002 | - | Rel-17 | B | FS\_eEDGE\_Sec | not pursued |
| S3-220141 | MEC - TR - Modification and Evaluation for solution#28 | Apple | 33.839 | 0003 | - | Rel-17 | C | FS\_eEDGE\_Sec | not pursued |
| S3-220142 | MEC - TR - Conclusion for key isolation issue | Apple | 33.839 | 0004 | - | Rel-17 | B | FS\_eEDGE\_Sec | not pursued |
| S3-220230 | Clean up for TR 33.839 | Huawei, HiSilicon | 33.839 | 0005 | - | Rel-17 | F | FS\_eEDGE\_Sec | agreed |
| S3-220063 | TR 33.847 Updates to conclusions for KI 2 and KI 3 | MITRE Corporation | 33.847 | 0001 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | withdrawn |
| S3-220081 | Conclusion for NSSAA support with L3 U2N | InterDigital Finland Oy | 33.847 | 0002 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220160 | Conclusion for Secondary Authentication support with L3 U2N Relay | LG Electronics Inc., InterDigital | 33.847 | 0003 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | revised |
| S3-220450 | Conclusion for Secondary Authentication support with L3 U2N Relay | LG Electronics Inc., InterDigital | 33.847 | 0003 | 1 | Rel-17 | F | FS\_5G\_ProSe\_Sec | agreed |
| S3-220329 | Additional conclusion of KI #17 – security policy | Qualcomm Incorporated, CATT, InterDigital, Ericsson | 33.847 | 0004 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | revised |
| S3-220483 | Additional conclusion of KI #17 – security policy | Qualcomm Incorporated, CATT, InterDigital, Ericsson | 33.847 | 0004 | 1 | Rel-17 | F | FS\_5G\_ProSe\_Sec | agreed |
| S3-220330 | Update of conclusion for KI#5 | Qualcomm Incorporated | 33.847 | 0005 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | agreed |
| S3-220331 | Conclusion for KI#16 – privacy protection of PDU session-related parameters | Qualcomm Incorporated | 33.847 | 0006 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220340 | TR 33.847 – Updates to Conclusions for KI 2 and KI 3 | MITRE Corporation | 33.847 | 0007 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | withdrawn |
| S3-220355 | Updates Key Issue #1 | Philips International B.V. | 33.847 | 0008 | - | Rel-17 | C | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220356 | Updates Solution #43 | Philips International B.V. | 33.847 | 0009 | - | Rel-17 | C | FS\_5G\_ProSe\_Sec | revised |
| S3-220555 | Updates Solution #43 | Philips International B.V. | 33.847 | 0009 | 1 | Rel-17 | B | FS\_5G\_ProSe\_Sec | agreed |
| S3-220358 | Resolve EN in solution #44 | Ericsson | 33.847 | 0010 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220359 | Conclusion for user plane solutions for KI#3, KI#4, KI#9 | Ericsson | 33.847 | 0011 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220379 | TR 33.847 – Updates to Conclusions for KI 2 and KI 3 | MITRE Corporation | 33.847 | 0012 | - | Rel-17 | F | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220440 | TR 33.847 - Update to conclusions of KI#5 | Philips International B.V. | 33.847 | 0013 | - | Rel-17 | B | FS\_5G\_ProSe\_Sec | not pursued |
| S3-220388 | Reference to symmetric channel delay clause | Nokia, Nokia Shanghai Bell | 33.851 | 0001 | - | Rel-17 | D | FS\_IIoT\_SEC | agreed |
| S3-220249 | Editorials suggested by Edithelp | Ericsson | 33.857 | 0001 | - | Rel-17 | F | FS\_eNPN\_SEC | agreed |
| S3-220264 | Editorial changes to TR 33.862 | China Mobile | 33.862 | 0001 | - | Rel-17 | F | FS\_SEC\_5GMSG | agreed |
| S3-220178 | Clean up for TR 33.867 | Huawei, HiSilicon | 33.867 | 0001 | - | Rel-17 | F | FS\_UC3S | agreed |
| S3-220385 | Formatting and alignment corrections | Nokia, Nokia Shanghai Bell | 33.867 | 0002 | - | Rel-17 | F | FS\_UC3S | revised |
| S3-220507 | Formatting and alignment corrections | Nokia, Nokia Shanghai Bell | 33.867 | 0002 | 1 | Rel-17 | F | FS\_UC3S | agreed |
| S3-220042 | Addressing several issue from MCC and EditHelp for TR 33.811 | Nokia, Nokia Shanghai Bell | 33.881 | 0001 | - | Rel-17 | F | FS\_NSWO\_5G | agreed |
| S3-220150 | Revise generic network product to support management function | Nokia Germany | 33.926 | 0051 | - | Rel-18 | B | SCAS\_5G\_MF | not pursued |
| S3-220153 | add annex for aspects specific to MnF network product class | Nokia Germany | 33.926 | 0052 | - | Rel-18 | B | SCAS\_5G\_MF | not pursued |
| S3-220323 | Correcting the update to the support of GEA algorithms in Rel-11 | Qualcomm Incorporated | 43.020 | 0064 | - | Rel-11 | F | TEI11 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-220007 |  | LS on new parameters for SOR | C1-214118 | postponed | ???? |
| S3-220008 |  | LS on Using CP-SOR as a secured information transfer mechanism between HPLMN and UE | C1-217163 | noted | (none) |
| S3-220009 |  | LS on the User Controlled PLMN Selector with Access Technology in Control plane solution for steering of roaming in 5GS | C1-217358 | noted | (none) |
| S3-220010 |  | [FSAG Doc 92\_003] Reply LS on attack preventing NAS procedures to succeed | C1-217378 | noted | (none) |
| S3-220011 |  | LS on Disaster Roaming Enabled Indication | C1-217427 | noted | (none) |
| S3-220012 |  | LS-Reply on Home Network triggered re-authentication | C4-215437 | noted | (none) |
| S3-220013 |  | LS for feedback on CT6’s study item related to network slice-specific authentication and authorization (NSSAA) | C6-210358 | replied to | S3-220470 |
| S3-220014 |  | Reply LS on RAN2 agreements for MUSIM | R2-2111329 | noted | (none) |
| S3-220015 |  | LS on RAN2 agreements for paging with service indication | R2-2111330 | noted | (none) |
| S3-220016 |  | Reply LS on UP security policy update | R2-2111527 | noted | (none) |
| S3-220017 |  | Reply to LS on support of PWS over SNPN | S1-214049 | noted | (none) |
| S3-220018 |  | Reply LS on 3GPP SA1 clarifications on problematic UAV | S1-214238 | noted | (none) |
| S3-220019 |  | Reply LS on UE capabilities indication in UPU | S2-2106703 | noted | (none) |
| S3-220020 |  | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | noted | (none) |
| S3-220021 |  | Reply LS on proposed NSWO architecture | S2-2107859 | noted | (none) |
| S3-220022 |  | LS on Multicast paging with TMGI | S2-2107995 | replied to | S3-220537 |
| S3-220023 |  | Reply LS on user consent | S2-2109089 | noted | (none) |
| S3-220024 |  | LS on support of DCS variants in UE Onboarding Architecture | S2-2109258 | replied to | S3-220493 |
| S3-220025 |  | Reply LS on Using N32 for Interconnect Scenarios | S2-2109334 | noted | (none) |
| S3-220026 |  | Reply to LS on Resynchronisations | ETSI SAGE | replied to | S3-220541 |
| S3-220027 |  | Reply LS to CT3 Questions and Feedback on EVEX | S4-211647 | noted | (none) |
| S3-220028 |  | LS Reply on QoE report handling at QoE pause | S5- 216417 | noted | (none) |
| S3-220029 |  | Reply LS on EAS and ECS identifiers | S6-212490 | noted | (none) |
| S3-220030 |  | Non-Support of Ciphering Algorithm GEA1 | GCF | replied to | S3-220579 |
| S3-220031 |  | New Name for ETSI TC SCP | ETSI TC SCP | noted | (none) |
| S3-220032 |  | LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation" | ITU-T SG2 | noted | (none) |
| S3-220033 |  | LS on Energy Efficiency as guiding principle for new solutions | SP-211621 | noted | (none) |
| S3-220034 |  | Reply LS to GSMA Operator Platform Group on edge computing definition and integration | SP-210003 | noted | (none) |
| S3-220035 |  | Reply LS on IMEI for Non-Public Networks/Private Networks without using USIM | GSMA | noted | (none) |
| S3-220036 |  | Reply LS on UE capabilities indication in UPU | C1-220811 | replied to | (none) |
| S3-220037 |  | Reply on security protection of RRCResumeRequest message | R3-221183 | noted | (none) |
| S3-220038 |  | LS on opens issues for NB-IoT and eMTC support for NTN | R3-221406 | replied to | S3-220543 |
| S3-220039 |  | Reply LS on LTE User Plane Integrity Protection | R3-221473 | replied to | S3-220464 |
| S3-220041 |  | LS on User consent Updating | R3-221210 | replied to | S3-220474 |
| S3-220043 |  | Reply LS on energy efficiency as guiding principle for new solutions | S5-221501 | noted | (none) |
| S3-220045 |  | Reply LS on NTN specific User Consent | R2-2201754 | postponed | S3-220271 |
| S3-220046 |  | Further reply on QoE report handling at QoE pause | R2-2201862 | noted | (none) |
| S3-220047 |  | Reply LS on security protection of RRCResumeRequest message | R2-2201864 | noted | (none) |
| S3-220048 |  | LS on UE providing Location Information for NB-IoT | R2-2201957 | noted | (none) |
| S3-220049 |  | LS on security concerns for UE providing Location Information for NB-IoT | R2-2201958 | replied to | S3-220544 |
| S3-220050 |  | LS on RAN3 impacts for non-SDT handling | R2-2201977 | noted | (none) |
| S3-220051 |  | LS on Security for Small Data Transmission | R2-2201983 | replied to | S3-220463 |
| S3-220052 |  | LS on UE location during initial access in NTN | R2-2202057 | withdrawn | (none) |
| S3-220053 |  | LS on UE location during initial access in NTN | R2-2201881 | noted | (none) |
| S3-220054 |  | LS to 3GPP on Identification of source PLMN-ID in SBA | GSMA | postponed | (none) |
| S3-220443 |  | Further Operator Platform Group questions following SDO Workshop | GSMA (forwarded by SA6) | noted | ???? |
| S3-220444 |  | LS on 3GPP TS 29.244 | BBF | postponed | (none) |
| S3-220499 |  | Reply LS on MINT functionality for Disaster Roaming | S2-2201514 | replied to | S3-220518 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-220446 | LS on 5G NSWO roaming aspects | CT3, CT4,SA2 | CT |  |
| S3-220453 | LS on full Registration Request upon AMF re-allocation | SA2, RAN3 | CT1, CT4 | S2-2107860/S3-213869 |
| S3-220463 | Reply LS on Security of Small data transmission | RAN2 | RAN3 | S3-220051 |
| S3-220464 | Reply LS on LTE User Plane Integrity Protection | RAN3, SA2 | CT4,CT1, RAN2 | S3-220039 |
| S3-220469 | Reply LS on UE capability indication in UPU | CT1 | SA2 | S3-220036 |
| S3-220470 | Reply LS on CT6’s study item related to network slice-specific authentication and authorization (NSSAA) | CT6 | - | S3-220013 |
| S3-220474 | Reply LS on User Consent Updating | RAN3 | CT4, SA5, SA2 | S3-220041 |
| S3-220493 | REPLY LS on support of DCS variants in UE Onboarding Architecture | SA2 | - | S3-220024 |
| S3-220505 | LS on new reference point name for the interface between PKMF and UDM in 5G ProSe | SA2 | - |  |
| S3-220518 | Reply LS on Reply LS on MINT functionality for Disaster Roaming | SA2 | SA5, CT1, CT4, CT6, RAN2, SA, CT, RAN | S3-220499 |
| S3-220537 | Reply LS on Multicast paging with TMGI | SA2 | RAN2 |  |
| S3-220541 | LS Reply on Resynchronisations | ETSI SAGE | - | S3-220026 |
| S3-220543 | Reply LS on opens issues for NB-IoT and eMTC support for NTN | RAN3 | SA2, RAN2 | S3-220038 |
| S3-220544 | Reply LS on security concerns for UE providing Location Information for NB-IoT | RAN2 | SA3-LI, RAN3, SA2, CT1 | S3-220049 |
| S3-220571 | LS on Further Operator Platform Group questions following SDO Workshop | SA | SA2, SA6, SA5 |  |
| S3-220579 | Reply LS on Non-Support of Ciphering Algorithm GEA1 | GCF | - | S3-220030 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-220531 | New SID on enhancement of AKMA | China Mobile | SID new |
| S3-220538 | New SID on Home network triggerred authenticaiton | Huawei, HiSilicon | SID new |
| S3-220563 | New SID on security aspects of enablers for Network Automation for 5G - phase 3 | China Mobile, ZTE, Ericsson, Apple, China Unicom, CAICT, China Telecom, Cablelabs, Nokia, Nokia Shanghai Bell, CATT | SID new |
| S3-220584 | R18 SID on Security Enhancement of support for Edge Computing — phase 2 | Huawei, HiSilicon | SID new |
| S3-220586 | New SID on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 2 | CATT, China Unicom, Interdigital | SID new |
| S3-220520 | R18 SID on Standardising Automated Certificate Management in SBA | Nokia, Nokia Shanghai Bell | SID revised |
| S3-220169 | New WID for SCAS work to introduce R-17 features on existing functions | Huawei, HiSilicon | WID new |
| S3-220214 | New WID on Security Aspects of Minimization of Service Interruption (MINT) | LG Electronics Inc. | WID new |
| S3-220532 | New WID on SCAS for AAnF | China Mobile | WID new |
| S3-220573 | New WID on Updates to gNB SCAS including split gNBs | Qualcomm Incorporated, Deutsche Telekom AG, AT&T, Altiostar | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-220044 | 33.870 | 0.0.1 | TR 33.870 - Skeleton |
| S3-220172 | 33.526 | 0.0.0 | MnF SCAS Skeleton |
| S3-220484 | 33.809 | 0.18.0 | draft TR 33.809 |
| S3-220487 | 33.874 | 0.6.0 | draft TR 33.874-060 for eNS2 |
| S3-220504 | 33.876 | 0.1.0 | Draft TR 33.876 Study on Automated Certificate Mangement in SBA |
| S3-220512 | 33.875 | 1.1.0 | Draft TR 33.875 |
| S3-220513 | 33.848 | 0.11.0 | Draft TR 33.848 |
| S3-220517 | 33.870 | 0.1.0 | Draft TR 33.870 |
| S3-220528 | 33.526 | 0.1.0 | Draft TS 33.526 |
| S3-220560 | 33.936 | 0.1.0 | TR 33.936 |
| S3-220561 | 33.927 | 0.1.0 | TR 33.927 |
| S3-220562 | 33.527 | 0.1.0 | TS 33.527 |
| S3-220567 | 33.503 | 0.3.0 | Draft TS 33.503 v0.3.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) |
| S3-220568 | 33.558 | 0.4.0 | Draft TS 33.558 |
| S3-220580 | 33.256 | 1.1.0 | TS 33.256 v1.1.0 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Dr. | Aldén | Magnus | Telia Company AB | Telia Company AB |
| Mr. | Ali | Irfan | Cisco Systems Belgium | Cisco Systems Belgium |
| Mr. | Alsterlid | Stefan | Sectra Communications AB | Sectra Communications AB |
| Mr. | Ashton | Tim | National Technical Assistance | National Technical Assistance |
| Dr. | Baboescu | Florin | BROADCOM CORPORATION | BROADCOM CORPORATION |
| Dr. | BAGAYOKO | Abdoulaye | Ericsson France S.A.S | Ericsson France S.A.S |
| Mr. | Bai | JingPeng | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Dr. | Ben Henda | Noamen | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bhatt | Rakshesh P. | Nokia Corporation | Nokia Corporation |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Denmark |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Ms. | Carducci | Candace | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon Denmark |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Mobile Softwar | Beijing Xiaomi Electronics |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK | Samsung Electronics Polska |
| Mr. | Chou | Joey | Intel Corporation (UK) Ltd | Intel Korea, Ltd. |
| Mr. | Choyi | Vinod Kumar | Verizon UK Ltd | Verizon Switzerland AG |
| Mr. | Chuberre | Nicolas | THALES | THALES |
| 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 |
| Mrs. | Costa | Luciana | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Davydov | Stepan | JSRPC Kryptonite | JSRPC Kryptonite |
| Mr. | Dees | Walter | Philips International B.V. | Philips International B.V. |
| Dr. | Deng | Juan | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Mr. | Doerr | Johannes | BMWi | BMWi |
| Mr. | Druta | Dan | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Mr. | Drynkin | Anton | JSRPC Kryptonite | JSRPC Kryptonite |
| Mr. | Edwards | Robert | MATRIXX Software | MATRIXX Software |
| Dr. | Escott | Adrian | Qualcomm CDMA Technologies | Qualcomm CDMA Technologies |
| Mr. | Evans | Tim P. | VODAFONE Group Plc | VODAFONE Group Plc |
| Mr. | Everett | Jared | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Falk | Rainer | Siemens AG | Siemens AG |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital Finland Oy |
| Miss | Flygare | Helena | Ericsson LM | Ericsson LM |
| Mr. | Gabay | David | MITRE Corporation | MITRE Corporation |
| Ing. | Gallo | Luigi | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mrs. | Gan | Lu | OPPO | OPPO |
| Dr. | Gao | Feng | China Unicom | China Unicom |
| Mr. | Gao | Weihan | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. | Philips International B.V. |
| Mr. | Goldberg | Martin | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Grewal | Rajpreet Singh | NTIA | NTIA |
| Miss | Griboedova | Ekaterina | JSRPC Kryptonite | JSRPC Kryptonite |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | HUAWEI Technologies Japan K.K. |
| Mr. | Guo | Yi | Intel Corporation (UK) Ltd | Intel Belgium SA/NV |
| Mr. | Gupta | Varini | Samsung R&D Institute India | Samsung R&D Institute India |
| Mr. | Gustafsson | Sune | Ericsson LM | Ericsson LM |
| Dr. | Han | Jaemin | Intel Technology India Pvt Ltd | Intel Russia A/O |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson LM |
| Mr. | Hasselquist | David | Sectra Communications AB | Sectra Communications AB |
| Mr. | Hjelm | Bjorn | Verizon UK Ltd | Verizon Sweden |
| Mr. | Hoffpauir | Dusty | Charter Communications, Inc | Charter Communications, Inc |
| Mr. | Hu | Li | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Device Co., Ltd |
| Miss | Huang | Xiaoting | China Mobile Com. Corporation | China Mobile E-Commerce Co. |
| 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 |
| Miss | Kedalagudde | Meghashree D | Intel Deutschland GmbH | Intel Corporation SAS |
| Dr. | Keesmaat | Iko | TNO | KPN N.V. |
| Mr. | Kenyon | Bradley | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Dr. | Khan | Mohsin | Ericsson LM | Ericsson LM |
| Mr. | khare | saurabh | Nokia Germany | Nokia Solutions & Networks (I) |
| Dr. | Kheirkhah | Morteza | InterDigital, Europe, Ltd. | InterDigital, Europe, Ltd. |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics France |
| Mr. | Kim | Dongjoo | LG Electronics Inc. | LG Electronics Inc. |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Incorporated |
| Mr. | Kim | Warren | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel |
| Ms. | Koser | Elizabeth | U.S. National Security Agency | U.S. National Security Agency |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Lenovo (Beijing) Ltd |
| Mr. | Laitinen | Mika | Airbus | Airbus |
| Mr. | Lazara | Dominic | Motorola Solutions UK Ltd. | Motorola Solutions Germany |
| 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 Co., Ltd |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | Huawei Technologies R&D UK |
| Mr. | Li | Fei | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | HiSilicon Technologies Co. Ltd |
| Mr. | Li | Jingyang | China Telecommunications | CCSA |
| Dr. | Li | Lun | HuaWei Technologies Co., Ltd | Huawei Telecommunication India |
| Mr. | Li | Michael | Ericsson LM | Ericsson LM |
| Ms. | Li | Xuexin | China Telecommunications | China Telecommunications |
| Dr. | Liang | Haoran | Xiaomi Communications | Xiaomi Communications |
| Dr. | Liao | Ellen C. | Intel | Intel Sweden AB |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Lipsky | Jeff | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Liu | Chang | China Mobile Research Inst. | China Mobile Group Device Co. |
| Dr. | Liu | Fuwen | China Mobile Com. Corporation | China Mobile M2M Company Ltd. |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech | Beijing Xiaomi Software Tech |
| Mr. | Liu | Yuze | ZTE Corporation | ZTE Corporation |
| Mr. | Loushine | Mike | AT&T | AT&T |
| Mr. | Lu | Jinghao | CBN | CBN |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi Technology |
| Mr. | Luetzenkirchen | Thomas | Intel Deutschland GmbH | Intel Deutschland GmbH |
| Mr. | M Dhanasekaran | Ranganathan | Nokia Corporation | Nokia Hungary |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Miss | Martinez Tarradell | Marta | Intel | Intel Corporation Italia SpA |
| Mr. | Methenni | Achref | InterDigital, Inc. | InterDigital, Inc. |
| Dr. | MTITA | Collins | Ericsson France S.A.S | Ericsson France S.A.S |
| Dr. | Muhanna | Ahmad | Mavenir | Mavenir |
| Mr. | Nair | Suresh | Nokia Germany | Nokia |
| Mr. | Niang | Mamadou M. | Verizon UK Ltd | Verizon Spain |
| Mrs. | Nisbeth | Daphanie | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Norton | Mark | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | O'Driscoll | James | NCSC | NCSC |
| Dr. | Palat | Sudeep | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd |
| Ms. | Parambath Sasi | NIvedya | Samsung R&D Institute India | Samsung Electronics GmbH |
| Dr. | Pashalidis | Andreas | BMWi | BMWi |
| Mr. | Patry | Frank | Omnispace | Omnispace |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Deutsche Telekom AG |
| Mr. | Peinado | German | Nokia Germany | Nokia Germany |
| Mr. | PENG | Jin | ZTE Corporation | ZTE Corporation |
| Miss | Ping | Jing | Nokia Germany | Nokia Germany |
| Mr. | Qi | Minpeng | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Electronics Co., Ltd |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | Samsung Electronics Romania |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECH. GmbH |
| Mr. | Rutkowski | Tony | CIS | CIS |
| Mr. | Schumacher | Greg | T-Mobile USA | T-Mobile USA Inc. |
| Dr. | Shailendra | Samar | Intel Technology India Pvt Ltd | Intel Technology India Pvt Ltd |
| Mr. | Shan | Changhong | Intel Corporation (UK) Ltd | Intel China Ltd. |
| Miss | shang | zhengyi | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Ms. | Shen | Jun | China Telecommunications | China Telecommunications |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Softwar | Beijing Xiaomi Mobile Softwar |
| Dr. | Shen | Zukang | Huawei Technologies France | HuaWei Technologies Co., Ltd |
| Dr. | Son | Jungje | Samsung R&D Institute UK | Samsung Electronics Nordic AB |
| Mrs. | song | hua | China Mobile Com. Corporation | China Mobile (Hangzhou) Inf. |
| Mr. | Srinivasan | Suresh | Intel | Intel K.K. |
| Dr. | Staufer | Markus | Nokia Germany | Nokia Belgium |
| Mr. | Stojanovski | Saso | Intel Deutschland GmbH | Intel Finland Oy |
| Mr. | Syrett | Mark | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Mr. | Torrecilla | Joaquin | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Toufik | Issam | ETSI | ETSI |
| Mr. | Trygar | Tobey | Peraton Labs | Peraton Labs |
| Dr. | Tsiatsis | Vlasios | Ericsson LM | Ericsson Japan K.K. |
| Mrs. | Vahidi | Helena | Ericsson LM | Ericsson LM |
| Dr. | Vanderveen | Michaela | MITRE Corporation | MITRE Corporation |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Mrs. | WANG | KE | China Mobile International Ltd | China Mobile International Ltd |
| Dr. | Wang | Zhibi | InterDigital Communications | InterDigital, Inc. |
| Mr. | Whorlow | Colin | NCSC | HOME OFFICE |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson LM |
| Mr. | Wong | Marcus | OPPO | Chengdu OPPO Mobile Com. corp. |
| Dr. | Wong | Stan | PCCW Global B.V. | PCCW Global B.V. |
| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | Motorola Solutions Danmark A/S |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Softwar | Beijing Xiaomi Mobile Software |
| Miss | Wu | Yizhuang | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Ms. | Xing | Zhen | ZTE Corporation | ZTE Corporation |
| Miss | Xiong | Lihui | Guangdong OPPO Mobile Telecom. | Guangdong OPPO Mobile Telecom. |
| Dr. | Xu | Zhikun | Spreadtrum Communications | Spreadtrum Communications |
| Miss | Yang | Haorui | Beijing OPPO Com. corp., ltd | Beijing OPPO Com. corp., ltd |
| Dr. | Yao | Ge | China Unicom | China Unicom |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | Intel Technology Poland SP Zoo |
| Mr. | You | Shilin | ZTE Corporation | ZTE Corporation |
| Mr. | Zeng | Qingjun | CBN | CBN |
| Ms. | Zhang | Yuan | ZEKU | ZEKU |
| Mr. | Zhao | Xuwen | HiSilicon Technologies Co. Ltd | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Zhou | Wei | CATT | CATT |
| Ms. | Zhuang | xiaojun | China Mobile Com. Corporation | CMDI |
| 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#107e-Bis | 27-06-2022 | 01-07-2022 | Online |  |  |
| SA3#108 | 22-08-2022 | 26-08-2022 | Gothenburg | Sweden |  |