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

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

**Online, Electronic meeting, 17/08/2020 to 28/08/2020**

## Contents:

Contents: 1

1 Agenda and Meeting Objectives 3

2 Meeting Reports 3

3 Reports and Liaisons from other Groups 4

4 Work Areas 7

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

4.2 Security Assurance Specification for 5G (Rel-16) 21

4.3 Mission Critical security (Rel-16) 23

4.4 Enhancements for Security aspects of Common API Framework for 3GPP Northbound APIs (Rel-16) 23

4.5 Security of the enhancement to the 5GC location services (Rel-16) 23

4.6 Security Aspects of the 5G Service Based Architecture (Rel-16) 23

4.7 Authentication and key management for applications based on 3GPP credential in 5G (Rel-16) 28

4.8 Evolution of Cellular IoT security for the 5G System (Rel-16) 36

4.9 Security of the Wireless and Wireline Convergence for the 5G system architecture (Rel-16) 37

4.10 Security aspects of Enhancement of Network Slicing (Rel-16) 37

4.11 Security for NR Integrated Access and Backhaul (Rel-16) 40

4.12 Security aspects of SEAL (Rel-16) 41

4.13 Security Aspects of 3GPP support for Advanced V2X Services (Rel-16) 42

4.14 Integration of GBA into 5GC (Rel-17) 46

4.15 Security Assurance Specification for IMS (Rel-17) 48

4.16 Security Assurance Specification Enhancements for 5G (Rel-17) 51

4.17 Security Assurance Specification for Service Communication Proxy (SECOP) (Rel-17) 54

4.18 Security Assurance Specification for 5G NWDAF (Rel-17) 55

4.19 Security Assurance Specification for Non-3GPP InterWorking Function (N3IWF) (Rel- 17) 55

4.20 Security Assurance Specification for Inter PLMN UP Security (Rel-17) 55

4.21 Other work areas 55

4.22 New work item proposals 60

5 Studies 61

5.1 Study on Security for NR Integrated Access and Backhaul 61

5.2 Study on 5G security enhancement against false base stations 61

5.3 Study on SECAM and SCAS for 3GPP virtualized network products 67

5.4 Study on User Plane Integrity Protection 69

5.5 Study on Security Impacts of Virtualisation 71

5.6 Study on authentication enhancements in 5GS 71

5.7 Study on storage and transport of the security parameters in a 5GC, that are used by the ARPF for Authentication 75

5.8 Study on security aspects of Unmanned Aerial Systems 77

5.9 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC 84

5.10 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS 90

5.11 Study on security for enhanced support of Industrial IoT 98

5.12 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services 101

5.13 Study on enhanced security support for Non-Public Networks 103

5.14 Study on security aspects of the Disaggregated gNB Architecture 108

5.15 Other study areas 110

5.16 New study item proposals 111

6 Any Other Business 114

Annex A: Contribution documents and status 115

A1: List of TDocs 115

A2: Tdoc decision timing 135

Annex B: List of change requests 146

Annex C: Lists of liaisons 156

C1: Incoming liaison statements 156

C2: Outgoing liaison statements 157

Annex D: List of agreed/approved new and revised Work Items 158

Annex E: List of draft Technical Specifications and Reports 159

Annex F: List of participants 160

Annex G: List of future meetings 164

## 1 Agenda and Meeting Objectives

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

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

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

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

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

**S3-201500 Agenda**

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

**Decision:** The document was **revised to S3-202152**.

**S3-201502 Process for SA3#100-e meeting**

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

**Decision:** The document was **revised to S3-201550**.

**S3-201550 Process for SA3#100-e meeting**

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

(Replaces S3-201502)

**Decision:** The document was **revised to S3-202058**.

**S3-202058 Process for SA3#100-e meeting**

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

(Replaces S3-201550)

**Decision:** The document was **revised to S3-202163**.

**S3-202163 Process for SA3#100-e meeting**

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

(Replaces S3-202058)

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

**S3-202152 Agenda**

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

(Replaces S3-201500)

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

## 2 Meeting Reports

**S3-201501 Report from SA3#99-e**

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

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

**S3-201503 Report from last SA**

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

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

## 3 Reports and Liaisons from other Groups

**S3-201504 5G capabilities exposure for factories of the future**

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

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

**S3-201509 Reply PAP/CHAP and other point-to-point protocols usage in 5GS**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004481*

**Decision:** The document was **replied to in S3-202190**.

**S3-201510 Reply LS on PAP/CHAP and other point-to-point protocols usage in 5GS**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-203609*

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

**S3-201514 Reply LS on S1/NG DAPS handover**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: CP-201312*

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

**S3-201515 LS on human-readable network name (HRNN)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: CP-201361*

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

**S3-201516 LS to ITU-T Study Group 17**

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

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

**S3-201517 Announcement of ISG ETI**

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

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

**S3-201523 LS on system support for WUS**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2005985*

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

**S3-201535 LS on user consent requirements for analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004560*

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

**S3-201540 256 bit algorithm candidates**

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

**Decision:** The document was **replied to in S3-202191**.

**S3-201541 Observations on ZUC-256**

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

**Decision:** The document was **replied to in S3-202192**.

**S3-201542 Observations and questions on 256-bit security goals**

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

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

**S3-201544 Use of 256-bit block Rijndael in Milenage-256**

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

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

**S3-201545 Liaison statement from ETSI ISG SAI on Securing Artificial Intelligence**

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

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

**S3-201546 Reply LS to TC CYBER QSC request for collaboration on migration planning of HSMs to support Quantum Safe Cryptography**

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

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

**S3-201556 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 June 2020.

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

**S3-201738 Reply LS on User consent requirements for analytics**

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

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

**S3-201955 Reply LS on 256 bit algorithm candidates**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: Qualcomm Incorporated*

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

**S3-201984 [DRAFT]  Reply-LS on 256-bit algorithm candidates**

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

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

**S3-201985 Reply-LS on user consent requirements for analytics**

*Type: LS out For: Approval  
 to SA WG2  
 Source: Nokia Germany*

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

**S3-202052 LS from RIFS to SA on 4G authentication improvement**

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

**Decision:** The document was **replied to in S3-202173**.

**S3-202053 LS on initiation of new work item Q.Pro-Trust “Signalling procedures and protocols for enabling interconnection between trustable network entities in support of existing and emerging networks”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG11*

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

**S3-202054 LS on initiation of new work item TR-USSD “Low resource requirement, quantum resistant, encryption of USSD messages for use in Financial services”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG11*

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

**S3-202173 Reply LS to GSMA RIFS on 4G authentication improvement**

*Type: LS out For: Approval  
 to GSMA FASG RIFS, cc 3GPP CT4  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202190 Reply to Reply PAP/CHAP and other point-to-point protocols usage in 5GS**

*Type: LS out For: Approval  
 to SA2, CT1, CT3, cc CT4  
 Source: NTT DOCOMO INC.*

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

**S3-202191 Reply LS on 256 bit algorithm candidates**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: NTT DOCOMO INC.*

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

**S3-202192 Reply LS on Observations on ZUC-256**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: NTT DOCOMO INC.*

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

## 4 Work Areas

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

**S3-201506 Reply LS on specification of NAS COUNT for 5G**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-203971*

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

**S3-201511 LS on 5G SoR integrity protection mechanism**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-203367*

**Decision:** The document was **replied to in S3-202251**.

**S3-201513 LS Reply on Multiple Kausf upon registering via multiple Serving Networks**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-203568*

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

**S3-201518 Specification of NAS COUNT for 5G**

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

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

**S3-201558 Resolution of editor's note in clause 6.3.2.1**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0857 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201559 Resolution of editor's note in clause 6.3.2.1 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0858 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201560 Discussion on treatment of editor's notes in 33.501**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: NTT DOCOMO*

**Abstract:**

This document summarizes the handling of the open editor's notes in 33.501. this has been provided for convenience. Please discuss textual changes in the email threads of the corresponding CRs.

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

**S3-201561 resolution of editor's notes in clause 6.8.1.2.0**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0859 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201562 resolution of editor's notes in clause 6.8.1.2.0 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0860 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201563 resolution of editor's note in clause 6.8.1.2.2**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0861 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201564 resolution of editor's note in clause 6.8.1.2.2 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0862 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201565 resolution of editor's note in clause 6.8.1.2.4**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0863 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO, ZTE*

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

**S3-201566 resolution of editor's note in clause 6.8.1.2.4 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0864 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO, ZTE*

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

**S3-201567 resolution of editor's note in clause 6.9.1**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0865 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201568 resolution of editor's note in clause 6.9.1 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0866 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201569 resolution of editor's note in clause 6.9.4.1**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0867 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201570 resolution of editor's note in clause 6.9.4.1 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0868 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201571 resolution of editor's note in clause 6.9.4.2**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0869 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201572 resolution of editor's note in clause 6.9.4.2 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0870 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201573 resolution of editor's note in clause 6.9.4.3**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0871 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201574 resolution of editor's note in clause 6.9.4.3 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0872 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201575 resolution of editor's note in clause 10.2.2.2**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0873 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S3-202193**.

**S3-201576 resolution of editor's note in clause 10.2.2.2 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0874 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S3-202196**.

**S3-201577 resolution of editor's note in clause 13.2.4.4.1**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0875 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201578 resolution of editor's note in clause 13.2.4.4.1 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0876 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201579 resolution of editor's note in clause 13.5**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0877 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

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

**S3-201580 resolution of editor's note in clause 13.5 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0878 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

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

**S3-201646 Discussion paper on contradictory text on Kseaf deletion**

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

**Abstract:**

Contradictory text regarding retention and deletion of Kseaf

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

**S3-201649 CR on Kseaf text deletion**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0883 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

**Decision:** The document was **revised to S3-202199**.

**S3-201651 CR on Kseaf text deletion**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0884 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

**Decision:** The document was **revised to S3-202200**.

**S3-201653 Discussion paper on Profile B uncompressed mode misalignment with CT6**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Misalignment between TS 33.501 and CT6 TS31.102

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

**S3-201655 CR to delete uncompressed mode text in profile B**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0885 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202201**.

**S3-201656 CR to delete uncompressed mode text in Profile B**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0886 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201657 Draft LS to CT6 on Profile B uncompressed mode**

*Type: LS out For: (not specified)  
 to CT6  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201678 Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R15**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0887 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

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

**S3-201679 Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R16**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0888 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-202243**.

**S3-201731 Alignment with RAN3 specification in R16**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0889 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201732 Alignment with RAN3 specification in R15**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0890 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**S3-201733 SUPI Type Clarification in R16**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0891 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202236**.

**S3-201734 SUPI Type Clarification in R15**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0892 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202237**.

**S3-201747 Secondary authentication revocation**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0896 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202241**.

**S3-201748 Secondary authentication revocation**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0897 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202242**.

**S3-201841 Change the long-lived TLS connection of N32-C to the short-lived**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0914 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202208**.

**S3-201842 Mirror: change the long-lived TLS connection of N32-C to the short-lived**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0915 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202209**.

**S3-201843 Update the N32-f context ID negotiation procedure**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0916 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202211**.

**S3-201844 Mirror: update the N32-f context ID negotiation procedure**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0917 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202222**.

**S3-201848 Discussion on the N32-f Protection Policy IE Data-Type Mapping issue**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Huawei, Hisilicon*

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

**S3-201849 Reply LS on N32-f Protection Policy IE Data-Type Mapping**

*Type: LS out For: Approval  
 to 5GIS, CT4  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202224**.

**S3-201867 Clarification of direct NAS reroute**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0920 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202206**.

**S3-201868 Mirror:Clarification of direct NAS reroute**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0921 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202207**.

**S3-201889 Correction to SN Addition or modification**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0924 Cat: F (Rel-16)  
  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

TS 33.501 Clause 6.10.2.1. SN Addition or modification incorrectly states that, ‘activate the UP protection as per the indications received for the associated DRBs and/or SRB.’, which gives an incorrect notion that an UP protection may be activated based

**Decision:** The document was **revised to S3-202175**.

**S3-201914 Correction of the full form of the abbreviation NRF**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0925 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S3-201915 Correction of the full form of the abbreviation NRF**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0926 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-201916 Verification of Serving Network Name in AUSF**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-201917 Verification of Serving Network Name in AUSF**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0927 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S3-201918 Verification of Serving Network Name in AUSF**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0928 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-201919 Aligning steering of roaming security mechanism with TS 29.509, TS 29.503 and TS 24.501**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0929 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S3-201920 Aligning steering of roaming security mechanism with TS 29.509, TS 29.503 and TS 24.501**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0930 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-201921 Draft LS on Misalignment between TS 33.501 and TS 29.573 (N32-f, references to the encrypted values)**

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

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

**S3-201922 Aligning TS 33.501 with TS 29.573 regarding N32-f context ID**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0931 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S3-201923 Aligning TS 33.501 with TS 29.573 regarding N32-f context ID**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0932 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-201954 Reply LS on 5G SoR integrity protection mechanism**

*Type: LS out For: Approval  
 to CT4, cc CT1  
 Source: Qualcomm Incorporated*

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

**S3-201975 Alignment of SoR procedures to Stage-3**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0935 Cat: F (Rel-15)  
  
 Source: Samsung*

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

**S3-201976 Alignment of SoR procedures to Stage-3**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0936 Cat: A (Rel-16)  
  
 Source: Samsung*

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

**S3-202049 Clarifications to SoR integrity protection mechanism**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0943 Cat: F (Rel-15)  
  
 Source: Orange*

**Decision:** The document was **revised to S3-202248**.

**S3-202050 Clarifications to SoR integrity protection mechanism**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0944 Cat: A (Rel-16)  
  
 Source: Orange*

**Decision:** The document was **revised to S3-202249**.

**S3-202055 N32-f Protection Policy IE Data-Type Mapping**

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

**Decision:** The document was **replied to in S3-202224**.

**S3-202056 N32-f Error Responses - Mapping**

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

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

**S3-202175 Correction to SN Addition or modification**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0924 rev 1 Cat: F (Rel-16)  
  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-201889)

**Abstract:**

TS 33.501 Clause 6.10.2.1. SN Addition or modification incorrectly states that, ‘activate the UP protection as per the indications received for the associated DRBs and/or SRB.’, which gives an incorrect notion that an UP protection may be activated based

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

**S3-202193 resolution of editor's note in clause 10.2.2.2**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0873 rev 1 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO*

(Replaces S3-201575)

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

**S3-202194 NF Service Producer authorization**

*Type: CR For: (not specified)  
 33.501 v15.9.0 CR-0950 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202195 NF Service Producer authorization**

*Type: CR For: (not specified)  
 33.501 v16.3.0 CR-0951 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202196 resolution of editor's note in clause 10.2.2.2 - R16 mirror**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0874 rev 1 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO*

(Replaces S3-201576)

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

**S3-202197 OAuth 2.0 based authorization**

*Type: CR For: (not specified)  
 33.501 v15.9.0 CR-0952 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202198 OAuth 2.0 based authorization**

*Type: CR For: (not specified)  
 33.501 v16.3.0 CR-0953 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202199 CR on Kseaf text deletion**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0883 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-201649)

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

**S3-202200 CR on Kseaf text deletion**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0884 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-201651)

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

**S3-202201 CR to delete uncompressed mode text in profile B**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0885 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Verizon*

(Replaces S3-201655)

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

**S3-202206 Clarification of direct NAS reroute**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0920 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201867)

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

**S3-202207 Mirror:Clarification of direct NAS reroute**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0921 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201868)

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

**S3-202208 Change the long-lived TLS connection of N32-C to the short-lived**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0914 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-201841)

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

**S3-202209 Mirror: change the long-lived TLS connection of N32-C to the short-lived**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0915 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-201842)

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

**S3-202211 Update the N32-f context ID negotiation procedure**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0916 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon, Ericsson*

(Replaces S3-201843)

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

**S3-202222 Mirror: update the N32-f context ID negotiation procedure**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0917 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon, Ericsson*

(Replaces S3-201844)

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

**S3-202224 Reply LS on N32-f Protection Policy IE Data-Type Mapping**

*Type: LS out For: Approval  
 to GSMA FASG 5GIS, CT4  
 Source: Huawei, Hisilicon*

(Replaces S3-201849)

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

**S3-202236 SUPI Type Clarification in R16**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0891 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201733)

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

**S3-202237 SUPI Type Clarification in R15**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0892 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201734)

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

**S3-202241 Secondary authentication revocation**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0896 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201747)

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

**S3-202242 Secondary authentication revocation**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0897 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201748)

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

**S3-202243 Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R16**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0888 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S3-201679)

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

**S3-202248 Clarifications to SoR integrity protection mechanism**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0943 rev 1 Cat: F (Rel-15)  
  
 Source: Orange, Ericsson, Samsung*

(Replaces S3-202049)

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

**S3-202249 Clarifications to SoR integrity protection mechanism**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0944 rev 1 Cat: A (Rel-16)  
  
 Source: Orange, Ericsson, Samsung*

(Replaces S3-202050)

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

**S3-202251 Reply LS on LS on 5G SoR integrity protection mechanism**

*Type: LS out For: Agreement  
 to CT4, cc CT1  
 Source: Orange*

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

**S3-202160 LS on Misalignments on HTTP message format over N32-f**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: C4-204409*

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

**S3-202164 Error handling by the receiving NF**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0946 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202165 Error handling by the receiving NF**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0947 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Mirror CR

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

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

**S3-201547 NESAS Official Launch**

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

**Decision:** The document was **replied to in S3-202219**.

**S3-201840 Clarification on the test cases if the UDM and AUSF are collocated**

*Type: CR For: Approval  
 33.514 v16.2.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202228**.

**S3-201879 gNB-specific adaptation to account protection by authentication attribute**

*Type: CR For: Approval  
 33.511 v16.4.0 CR-0015 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201880 gNB-specific adaptation to minimum number of individual accounts**

*Type: CR For: Approval  
 33.511 v16.4.0 CR-0016 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201882 gNB-specific adaptation to enforcement of password change after initial login**

*Type: CR For: Approval  
 33.511 v16.4.0 CR-0017 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202219 Relay LS to NESAS Official Launch**

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

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

**S3-202228 Clarification on the test cases if the UDM and AUSF are collocated**

*Type: CR For: Approval  
 33.514 v16.2.0 CR-0003 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201840)

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

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

**S3-201505 Reply LS on IANA assigned values for mission critical**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-203503*

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

**S3-201647 [33.180] R16 Group regroup and user regroup security**

*Type: CR For: Agreement  
 33.180 v16.4.0 CR-0149 Cat: F (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

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

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

**S3-201648 [33.180] MCData message store security**

*Type: CR For: Agreement  
 33.180 v16.4.0 CR-0150 Cat: F (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Security for MCData message store interfaces

**Decision:** The document was **revised to S3-202176**.

**S3-202176 [33.180] MCData message store security**

*Type: CR For: Agreement  
 33.180 v16.4.0 CR-0150 rev 1 Cat: B (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

(Replaces S3-201648)

**Abstract:**

Security for MCData message store interfaces

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

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

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

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

**S3-201610 Access Token Signature using MAC with symmetric key**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0879 Cat: A (Rel-16)  
  
 Source: Mavenir, Deutsche Telekom*

**Abstract:**

This CR provides clarification access Token signing using MAC-based pairwise summetric keys between the NRF and the NF service Producer

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

**S3-202162 Access Token Signature using MAC with symmetric key**

*Type: CR For: Approval  
 33.501 v15.9.0 CR-0945 Cat: F (Rel-15)  
  
 Source: Mavenir, Deutsche Telekom*

**Abstract:**

Mirror CR

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

**S3-201611 Static authorization details**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0880 Cat: A (Rel-16)  
  
 Source: Mavenir,Deutsche Telekom*

**Abstract:**

Adding the details of static authorization without impacting NRF, NF service consumer, nor NF service producer

**Decision:** The document was **revised to S3-202174**.

**S3-201612 Access token indication of NF service consumer authentication via NRF**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0881 Cat: F (Rel-16)  
  
 Source: Mavenir*

**Abstract:**

propose a change to ensure that this statement is accurate and does not introduce any incorrect information

**Discussion:**

minuted by Nokia "Nokia and Mavenir want to raise to leadership and group that the objection by Ericsson on -1612 was hold even though in the last meeting, the previous version was agreed among all participants only conditionally, ie. under the assumption that the change from S3-201612 will be accepted in this meeting"

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

**S3-201794 Missing abbreviations**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0899 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201795 Alignment and clarifications to SBA network or transport layer protocol**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0900 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202181**.

**S3-201796 N32 interface**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0901 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202046**.

**S3-201797 Resolving ed note in 13.2.2.6**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0902 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201798 Authentication and static authorization**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0903 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202183**.

**S3-201799 Overview clause on communication models and related security**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0904 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202182**.

**S3-201800 Authorization of NF service access**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0905 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202189**.

**S3-201801 Integrity protection of service request**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0906 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202186**.

**S3-201802 Re-using of access token in indirect communication with delegated discovery**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0907 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201803 Making NF instance id in SBA certificate profile mandatory to support**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0908 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202184**.

**S3-201845 Enhancement on the client credentials assertion verification**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0918 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201924 Token request parameters in Scenario D**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0933 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-201983 Roaming case for indirect communication**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0939 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202046 N32 interface**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0901 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201796)

**Decision:** The document was **revised to S3-202180**.

**S3-202167 N32 interface**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0949 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Mirror CR

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

**S3-202174 Static authorization details**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0880 rev 1 Cat: F (Rel-16)  
  
 Source: Mavenir,Deutsche Telekom,Nokia, Nokia Shanghai Bell*

(Replaces S3-201611)

**Abstract:**

Adding the details of static authorization without impacting NRF, NF service consumer, nor NF service producer

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

**S3-202180 N32 interface**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0901 rev 2 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-202046)

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

**S3-202181 Alignment and clarifications to SBA network or transport layer protocol**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0900 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201795)

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

**S3-202182 Overview clause on communication models and related security**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0904 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201799)

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

**S3-202183 Authentication and static authorization**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0903 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201798)

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

**S3-202184 Making NF instance id in SBA certificate profile mandatory to support**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0908 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201803)

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

**S3-202186 Integrity protection of service request**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0906 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201801)

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

**S3-202189 Authorization of NF service access**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0905 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201800)

**Decision:** The document was **revised to S3-202259**.

**S3-202259 Authorization of NF service access**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0905 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-202189)

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

**S3-202166 Static authorization details**

*Type: CR For: Agreement  
 33.501 v15.9.0 CR-0948 Cat: F (Rel-15)  
  
 Source: Mavenir,Deutsche Telekom,Nokia, Nokia Shanghai Bell*

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

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

**S3-201680 Add three Abbreviations to clause 3.3**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-202233**.

**S3-201681 Delete routing ID in A-KID**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201682 Discussion on KAF update**

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

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

**S3-201683 Kaf update in clause 5.2 and 6.4.3**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201684 AUSF needs not store KAUSF**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201685 Resolution of editor's note on other parameter in clause 6.3**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0005 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201686 Services Provided by AAnF in clause 7.1**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0006 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201687 Services Provided by AUSF in clause 7.2**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0007 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201688 Clarification of when to derive Kaf in UE**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0008 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201700 AKMA Anchor Key derivation in the UE**

*Type: draftCR For: Approval  
 33.535 v16.0.0  
 Source: CATT*

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

**S3-201717 Clarifications on error case in AKMA process**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202217**.

**S3-201742 Aware of AF‘s AKMA service capability in the UE**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201753 The deployment of AAnF**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201754 Use routing ID to find AAnF**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201755 Reauthenticaiton in AKMA**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202218**.

**S3-201768 Adding AMF functionality in clause 4.2**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0014 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S3-201769 Adding details of AKMA key generation in the UE**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0015 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S3-201785 Add abbreviations to TS 33.535**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0016 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-201786 FC values allocation**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0017 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-201787 CR to TS 33.220-FC values allocation for AKMA**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0018 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-201788 Correction of AKMA services in section 7**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0019 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-201789 Adding AKMA context description**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0020 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-201790 Adding details on UE AKMA capability handling**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0021 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S3-201791 Clarification on AKMA Application Key derivation in the UE**

*Type: CR For: (not specified)  
 33.535 v16.0.0 CR-0022 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S3-201869 FC values for TS 33.535**

*Type: CR For: Approval  
 33.220 v16.1.0 CR-0202 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S3-201943 Updates to Abbreviations and Corrections and clarifications to clause 4**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0023 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202203**.

**S3-201944 Corrections to AKMA key lifetimes**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0024 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202204**.

**S3-201945 Corrections and clarifications to AKMA procedures**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0025 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202205**.

**S3-201946 Assignment of FC values for key derivations**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0026 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202168**.

**S3-201947 Assigning FC values for AKMA TS**

*Type: CR For: Agreement  
 33.220 v16.1.0 CR-0203 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202169**.

**S3-201948 Specification of value of SUPI for key derivations**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0027 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-201966 [AKMA] Service Update to clause 6.1, 6.2 and 7.1**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0028 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**S3-201967 [AKMA] Deletion of service provided by AUSF in clause 7.2**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0029 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**S3-201968 Support for context deregistration option in AKMA**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0030 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**S3-202036 AKMA Anchor Function selection clause**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0031 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202037 AKMA SBA interface clarifications**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0032 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202246**.

**S3-202038 AKMA reference point architecture specification**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0033 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202039 Several clarifications and editorials**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0034 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202247**.

**S3-202040 Discussion of the AKMA reference point interface names**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-202041 LS on Reference point interface names for AKMA**

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

**Decision:** The document was **revised to S3-202250**.

**S3-202168 Assignment of FC values for key derivations**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0026 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, China Mobile*

(Replaces S3-201946)

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

**S3-202169 Assigning FC values for AKMA TS**

*Type: CR For: Agreement  
 33.220 v16.1.0 CR-0203 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, China Mobile, Samsung*

(Replaces S3-201947)

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

**S3-202203 Updates to Abbreviations and Corrections and clarifications to clause 4**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0023 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-201943)

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

**S3-202204 Corrections to AKMA key lifetimes**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0024 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-201944)

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

**S3-202205 Corrections and clarifications to AKMA procedures**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0025 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-201945)

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

**S3-202217 Clarifications on error case in AKMA process**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0009 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201717)

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

**S3-202218 Reauthenticaiton in AKMA**

*Type: CR For: Approval  
 33.535 v16.0.0 CR-0013 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201755)

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

**S3-202233 Add three Abbreviations to clause 3.3**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S3-201680)

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

**S3-202246 AKMA SBA interface clarifications**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0032 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, ZTE, China Mobile, Samsung*

(Replaces S3-202037)

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

**S3-202247 Several clarifications and editorials**

*Type: CR For: Agreement  
 33.535 v16.0.0 CR-0034 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-202039)

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

**S3-202250 LS on Reference point interface names for AKMA**

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

(Replaces S3-202041)

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

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

**S3-201521 LS on early UE capability retrieval for eMTC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2003935*

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

**S3-201531 Reply LS on early UE capability retrieval for eMTC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004446*

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

**S3-201974 Reply LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication**

*Type: LS out For: Approval  
 to CT1  
 Source: Samsung, Qualcomm Incorporated, Huawei, Hisilicon*

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

**S3-201991 CIoT: Converting remaining ENs into Notes**

*Type: CR For: Agreement  
 33.861 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-201992 CIoT: Converting TBDs to notes**

*Type: CR For: Agreement  
 33.861 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-201993 CIoT: Adding missing references**

*Type: CR For: Agreement  
 33.861 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202057 LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication**

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

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

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

**S3-201519 Uniqueness of FN-RG PEI for Lawful Interception purposes**

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

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

**S3-201537 LS on uniqueness of PEI in certain FN-RG configurations**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3i200069*

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

**S3-201870 Selecting the authentication method for devices that do not support 5GC NAS over WLAN access**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0922 Cat: F (Rel-16)  
  
 Source: Lenovo, Motorola Mobility*

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

**S3-201877 Discussion Anonymous IDs**

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

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

**S3-201881 Anonymous SUCI for N5GC**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0923 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S3-202051 Completion of WT-456 and WT-470**

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

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

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

**S3-201512 LS on Clarification on AAA-Server address**

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

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

**S3-201534 Reply LS on NSSAAF in slice specific authentication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004476*

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

**S3-201743 AMF selection in NSSAA related procedure in case of dual registration in different PLMNs**

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

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

**S3-201744 AMF selection in NSSAA related procedure in case of dual registration in different PLMNs**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0893 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201745 Slice privacy protection in NSSAA related procedure**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0894 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201746 Correction to Nnssaaf\_NSSAA services service**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0895 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202239**.

**S3-201781 Addressing editor note on transformation of S-NSSAI during NSSAA**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0898 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-201805 Modification on AAA Server triggered Slice-Specific Authorization Revocation procedure**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0909 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S3-202245**.

**S3-201812 Discussion on validity period**

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

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

**S3-201813 validity peirod of NSSAA results**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0910 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-201814 Discussion on SN-ID in NSSAA**

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

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

**S3-201815 Serving network name in NSSAA**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0911 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-201816 Clarification on binding of NSSAI and UE ID at AAA-S**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0912 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-201817 Editorial changes to clause 16**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0913 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-202231**.

**S3-202048 Draft LS Response on Clarification on AAA-Server address**

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

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

**S3-202231 Corrections to clause 16**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0913 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-201817)

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

**S3-202239 Correction to Nnssaaf\_NSSAA services service**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0895 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201746)

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

**S3-202240 Correction to Nnssaaf\_NSSAA services service**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0895 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201746)

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

**S3-202245 Modification on AAA Server triggered Slice-Specific Authorization Revocation procedure**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0909 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S3-201805)

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

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

**S3-201977 Allocation of FC values for KIAB derivation function**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0937 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to S3-202172**.

**S3-201978 Allocation of FC values for IAB key derivation function**

*Type: CR For: Agreement  
 33.220 v16.1.0 CR-0204 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**S3-202172 Allocation of FC values for KIAB derivation function**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0937 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces S3-201977)

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

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

**S3-201508 LS on Key Management procedure in SEAL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-203588*

**Decision:** The document was **replied to in S3-202177**.

**S3-201650 [33.434] KM Clarifications**

*Type: CR For: Agreement  
 33.434 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Based on the LS from CT3, clarifications should be made to the parameter descriptions in the SEAL KM Request and SEAL KM Response messages.

**Decision:** The document was **revised to S3-202178**.

**S3-201654 Reply LS on Key Management procedure in SEAL**

*Type: LS out For: Agreement  
 to CT3, cc SA6, CT1  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Reply LS to CT3 answering their SEAL KM questions

**Decision:** The document was **revised to S3-202177**.

**S3-201958 [Draft] Reply LS on key management procedure in SEAL**

*Type: LS out For: Approval  
 to CT3, cc CT1, SA6  
 Source: Samsung*

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

**S3-201959 [SEAL] CR for TS 33.434 cleanup**

*Type: CR For: Agreement  
 33.434 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to S3-202170**.

**S3-202170 [SEAL] CR for TS 33.434 cleanup**

*Type: CR For: Agreement  
 33.434 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces S3-201959)

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

**S3-202177 Reply LS on Key Management procedure in SEAL**

*Type: LS out For: Agreement  
 to CT3, cc SA6, CT1  
 Source: Motorola Solutions Danmark A/S*

(Replaces S3-201654)

**Abstract:**

Reply LS to CT3 answering their SEAL KM questions

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

**S3-202178 [33.434] KM Clarifications**

*Type: CR For: Agreement  
 33.434 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

(Replaces S3-201650)

**Abstract:**

Based on the LS from CT3, clarifications should be made to the parameter descriptions in the SEAL KM Request and SEAL KM Response messages.

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

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

**S3-201522 LS on the re-keying procedure for NR SL**

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

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

**S3-201548 LS on technical reports on use cases and requirements as well as architecture for vehicular multimedia**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T Focus Group on Vehicular Multimedia (FG-VM)*

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

**S3-201557 Clarification on the definition of KNRP-sess**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: InterDigital, Inc., LG Electronics, Qualcomm Incorporated*

**Abstract:**

It is proposed to add a clear definition of security context for unicast PC5, listing its components and how they are managed.

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

**S3-201609 Corrections on security establishment**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: InterDigital, Inc.*

**Abstract:**

Summary of change: It is proposed to check the DSMC message integrity before checking that that the received LSB of KNPR-sess ID is unique.

Consequences if not approved:

- The LSBs of KNPR-sess ID in use may be leaked leading to linkability/trackability

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

**S3-201689 Clarification of handling of the user plane security policy in clause 5.3.3.1.4.2.3**

*Type: CR For: Agreement  
 33.536 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201690 Clean up for eV2X**

*Type: CR For: Agreement  
 33.536 v16.0.0 CR-0004 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201691 Update the clause 5.3.3.1.4.3**

*Type: CR For: Agreement  
 33.536 v16.0.0 CR-0005 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-201692 Update the clause 5.3.3.2.2**

*Type: CR For: Agreement  
 33.536 v16.0.0 CR-0006 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-202232**.

**S3-201710 Editorial changes about subscript corrections**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202212**.

**S3-201711 Propose to add descriptions about Knrp ID confliction**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0008 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201712 Clarification on policy handling**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202213**.

**S3-201713 Clarification on algorithm selection and key derivation**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202214**.

**S3-201714 Clarification on processing null-algorithms**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202215**.

**S3-201715 Propose to mitigate the bidding down attack**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201716 Propose to complete security lagorithm selection for UP**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202216**.

**S3-201838 Clarification on the UP security configuration checking**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0014 Cat: B (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202210**.

**S3-201839 Clarification on the UP security policy activation**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0015 Cat: B (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201942 Clarification on the unicast privacy procedures**

*Type: CR For: Agreement  
 33.536 v16.0.0 CR-0016 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-202210 Clarification on the UP security configuration checking**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0014 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201838)

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

**S3-202212 Editorial changes about eV2X**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0007 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon, ZTE Corporation*

(Replaces S3-201710)

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

**S3-202213 Clarification on policy handling**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0009 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201712)

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

**S3-202214 Clarification on algorithm selection and key derivation**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0010 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201713)

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

**S3-202215 Clarification on processing null-algorithms**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0011 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201714)

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

**S3-202216 Propose to complete security lagorithm selection for UP**

*Type: CR For: Approval  
 33.536 v16.0.0 CR-0013 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-201716)

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

**S3-202232 Update the clause 5.3.3.2.2**

*Type: CR For: Agreement  
 33.536 v16.0.0 CR-0006 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S3-201692)

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

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

**S3-201751 Adding HSS and BSF SBI services**

*Type: draftCR For: Approval  
 33.220 v16.1.0  
 Source: Huawei, Hisilicon*

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

**S3-201752 Architecture support complement**

*Type: draftCR For: Approval  
 33.220 v16.1.0  
 Source: Huawei, Hisilicon*

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

**S3-201863 Discussion on UE privacy in GBA**

*Type: discussion For: Endorsement  
 33.220 v..  
 Source: Huawei, Hisilicon*

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

**S3-201864 Adding security requirement on UE privacy**

*Type: draftCR For: Approval  
 33.220 v16.1.0  
 Source: Huawei, Hisilicon*

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

**S3-202027 Living document of Service Based Interfaces for GBA**

*Type: draftCR For: Approval  
 33.220 v16.1.0  
 Source: Ericsson*

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

**S3-202028 Living document of Service Based Interfaces for GBA**

**Push**

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

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

**S3-202029 pCR to living document for TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v16.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202069**.

**S3-202030 pCR to living document for TS 33.223: SBA support for Zpn interface**

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

**Decision:** The document was **revised to S3-202071**.

**S3-202031 Discussion of HSS role in supporting SBA for GBA**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-202069 Living document for TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v16.1.0  
 Source: Ericsson, Huawei, Hisilicon*

(Replaces S3-202029)

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

**S3-202071 Living document for TS 33.223: SBA support for Zpn interface**

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

(Replaces S3-202030)

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

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

**S3-201851 IMS SCAS: adding the Introduction part**

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

**Decision:** The document was **revised to S3-202075**.

**S3-201852 IMS SCAS: Assets and threats of the IMS product classes**

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

**Decision:** The document was **revised to S3-202149**.

**S3-201853 IMS SCAS: adding threats related to de-registration during the authentication**

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

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

**S3-201854 IMS SCAS: new test case on de-registration**

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

**Decision:** The document was **revised to S3-202077**.

**S3-201855 Threats specific of high-priority algorithm selection in the P-CSCF**

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

**Decision:** The document was **revised to S3-202078**.

**S3-201856 IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF**

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

**Decision:** The document was **revised to S3-202080**.

**S3-201857 Threats specific of bidding down on security association set-up**

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

**Decision:** The document was **revised to S3-202081**.

**S3-201858 IMS SCAS: new test case on bidding down on security association set-up**

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

**Decision:** The document was **revised to S3-202082**.

**S3-201859 Threats specific of unprotected register message**

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

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

**S3-201860 IMS SCAS: new test case on unprotected register message**

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

**Decision:** The document was **revised to S3-202083**.

**S3-202075 IMS SCAS: adding the Introduction part**

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

(Replaces S3-201851)

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

**S3-202077 IMS SCAS: new test case on de-registration**

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

(Replaces S3-201854)

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

**S3-202078 Threats specific of high-priority algorithm selection in the P-CSCF**

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

(Replaces S3-201855)

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

**S3-202079 IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF**

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

(Replaces S3-201856)

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

**S3-202080 IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF**

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

(Replaces S3-201856)

**Decision:** The document was **revised to S3-202156**.

**S3-202081 Threats specific of bidding down on security association set-up**

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

(Replaces S3-201857)

**Decision:** The document was **revised to S3-202154**.

**S3-202082 IMS SCAS: new test case on bidding down on security association set-up**

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

(Replaces S3-201858)

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

**S3-202083 IMS SCAS: new test case on unprotected register message**

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

(Replaces S3-201860)

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

**S3-202084 Draft TS 33.226 v0.2.0 Security assurance for IP Multimedia Subsystem (IMS)**

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

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

**S3-202149 IMS SCAS: living document for assets and threats of the IMS product classes**

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

(Replaces S3-201852)

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

**S3-202153 Threats specific of bidding down on security association set-up**

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

(Replaces S3-201857)

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

**S3-202154 Threats specific of bidding down on security association set-up**

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

(Replaces S3-202081)

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

**S3-202156 IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF**

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

(Replaces S3-202080)

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

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

**S3-201761 Threat analysis on NAS based redirection from 5GS to EPS**

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

**Decision:** The document was **revised to S3-202131**.

**S3-201762 SCAS-NAS based redirection from 5GS to EPS**

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

**Decision:** The document was **revised to S3-202132**.

**S3-201763 threat analysis on state transation**

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

**Decision:** The document was **revised to S3-202133**.

**S3-201764 Add state transation to gNB SCAS**

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

**Decision:** The document was **revised to S3-202134**.

**S3-201765 Threat analysis on the RLF scenario in Control Plane CIoT 5GS Optimization**

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

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

**S3-201766 RRCReestablishment in Control Plane CIoT 5GS Optimization**

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

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

**S3-201767 living doc to 33.117**

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

**Decision:** The document was **revised to S3-202135**.

**S3-201846 Threats related to security enforcement configuration for vertical LAN**

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

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

**S3-201847 New test case on security enforcement configuration for vertical LAN**

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

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

**S3-201891 Threat analysis of incorrect validation of client credentials assertion**

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

**Decision:** The document was **revised to S3-202140**.

**S3-201892 Test case for correct handling of client credentials assertion validation failure**

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

**Decision:** The document was **revised to S3-202141**.

**S3-202131 Threat analysis on NAS based redirection from 5GS to EPS**

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

(Replaces S3-201761)

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

**S3-202132 SCAS-NAS based redirection from 5GS to EPS**

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

(Replaces S3-201762)

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

**S3-202133 threat analysis on state transation**

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

(Replaces S3-201763)

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

**S3-202134 Add state transation to gNB SCAS**

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

(Replaces S3-201764)

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

**S3-202135 living doc to 33.117**

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

(Replaces S3-201767)

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

**S3-202140 Threat analysis of incorrect validation of client credentials assertion**

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

(Replaces S3-201891)

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

**S3-202141 Test case for correct handling of client credentials assertion validation failure**

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

(Replaces S3-201892)

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

**S3-202148 Living CR to TR 33.926**

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

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

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

**S3-201996 SCAS SCP: Requirements and test cases of SBA/SBI aspects**

*Type: pCR For: Approval  
 33.522 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202138**.

**S3-201997 Critical Assets of SCP**

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

**Decision:** The document was **revised to S3-202139**.

**S3-201998 Analysis of threats over SCP internal network interfaces**

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

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

**S3-201999 SCAS SCP: Requirement and Test Case for Protection over Internal Interfaces**

*Type: pCR For: Approval  
 33.522 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202000 Threat analysis of tokens forwarded by the SCP**

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

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

**S3-202006 SCAS SCP: Token forwarded to the current pNF**

*Type: pCR For: Approval  
 33.522 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202007 SCAS SCP: Correct Token forwarded to the pNF**

*Type: pCR For: Approval  
 33.522 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202138 SCAS SCP: Requirements and test cases of SBA/SBI aspects**

*Type: pCR For: Approval  
 33.522 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201996)

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

**S3-202139 Critical Assets of SCP**

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

(Replaces S3-201997)

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

**S3-202143 Draft TS 33.522 v0.2.0 5G SCAS for SCP**

*Type: draft TS For: Approval  
 33.522 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

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

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

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

**S3-201693 Updating IPUPS of UPF to Annex L of TR 33.926**

*Type: CR For: Agreement  
 33.926 v16.3.0 CR-0036 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-202136 Updating IPUPS of UPF to Annex L of TR 33.926**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: ZTE Corporation*

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

### 4.21 Other work areas

**S3-201524 LS on propagation of user consent related information during Xn inter-PLMN handover**

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

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

**S3-201528 LS on AMF Reallocation via RAN re-routing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2001730*

**Decision:** The document was **replied to in S3-201862**.

**S3-201532 Reply LS on manipulation of CAG Information element by a VPLMN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004453*

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

**S3-201533 Reply LS on protection of allowed CAG list against MITM Attack**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004455*

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

**S3-201581 Editorial corrections to NDS/AF**

*Type: CR For: (not specified)  
 33.310 v16.4.0 CR-0111 Cat: F (Rel-16)  
  
 Source: Juniper Networks*

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

**S3-201624 Removing rel-15 text relating to N9 roaming UP**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0882 Cat: F (Rel-16)  
  
 Source: Juniper Networks*

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

**S3-201659 Draft reply LS to RAN3 LS on User consent during Xn inter PLMN handover**

*Type: LS out For: Approval  
 to RAN3, cc RAN2, SA5  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201677 reply LS on AMF Reallocation via RAN re-routing**

*Type: LS out For: Approval  
 to SA2, cc TSG SA  
 Source: ZTE Corporation*

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

**S3-201850 Clarification on the Data-type encryption policy**

*Type: CR For: Approval  
 33.501 v16.3.0 CR-0919 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-201862 LS out on AMF reallocation via RAN**

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

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

**S3-201866 SHA-1 deprecation in GBA**

*Type: CR For: Approval  
 33.220 v16.1.0 CR-0201 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

**S3-201873 Clarification to SEAF**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0835 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201493)

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

**S3-201874 Status of RFC 5448bis update**

*Type: discussion For: Discussion  
 Source: Ericsson*

(Replaces S3-201147)

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

**S3-201878 Clarification to 5G AV**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0834 rev 2 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201492)

**Decision:** The document was **revised to S3-202253**.

**S3-201883 eNB-specific adaptation to account protection by authentication attribute R15**

*Type: CR For: Approval  
 33.216 v15.2.0 CR-0016 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201884 eNB-specific adaptation to account protection by authentication attribute R16**

*Type: CR For: Approval  
 33.216 v16.4.0 CR-0017 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201885 eNB-specific adaptation to minimum number of individual accounts R15**

*Type: CR For: Approval  
 33.216 v15.2.0 CR-0018 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201886 eNB-specific adaptation to minimum number of individual accounts R16**

*Type: CR For: Approval  
 33.216 v16.4.0 CR-0019 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201887 eNB-specific adaptation to enforcement of password change after initial login R15**

*Type: CR For: Approval  
 33.216 v15.2.0 CR-0020 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201888 eNB-specific adaptation to enforcement of password change after initial login R16**

*Type: CR For: Approval  
 33.216 v16.4.0 CR-0021 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201912 Discussion paper on the NAS COUNTs storage**

*Type: discussion For: Endorsement  
 Source: Apple*

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

**S3-201913 Draft LS to CT6 on the NAS COUNTs storage**

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

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

**S3-201980 Removal of response from gNB to the AMF after inter-gNB-CU HO**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0938 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**S3-202002 Update of the OAuth Proof-of-Possession security architecture reference**

*Type: CR For: Agreement  
 33.203 v13.3.0 CR-0253 Cat: F (Rel-13)  
  
 Source: Ericsson*

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

**S3-202003 Update of the OAuth Proof-of-Possession security architecture reference**

*Type: CR For: Agreement  
 33.203 v14.2.0 CR-0254 Cat: A (Rel-14)  
  
 Source: Ericsson*

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

**S3-202004 Update of the OAuth Proof-of-Possession security architecture reference**

*Type: CR For: Agreement  
 33.203 v15.2.0 CR-0255 Cat: A (Rel-15)  
  
 Source: Ericsson*

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

**S3-202005 Update of the OAuth Proof-of-Possession security architecture reference**

*Type: CR For: Agreement  
 33.203 v16.0.0 CR-0256 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-202034 Handling of counter wrap around in UDM**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0940 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202035 Storage of KAUSF in the UE and AUSF**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0941 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202253 Clarification to 5G AV**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0834 rev 3 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201878)

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

**S3-202254 Clarification to 5G AV**

*Type: CR For: (not specified)  
 33.501 v15.9.0 CR-0954 Cat: F (Rel-15)  
  
 Source: Nokia,Nokia Shanghai Bell*

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

### 4.22 New work item proposals

**S3-201652 New WID on mission critical security enhancements for release 17**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Stage 2 architecture work for Release 17 Mission Critical features

**Decision:** The document was **revised to S3-202179**.

**S3-201741 New WID on Security Assurance Specification for NSSAAF**

*Type: WID new For: Agreement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202221**.

**S3-201941 Enhancements to UPIP Support in 5GS**

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

**Decision:** The document was **revised to S3-202202**.

**S3-202179 New WID on mission critical security enhancements phase 2**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Danmark A/S*

(Replaces S3-201652)

**Abstract:**

Stage 2 architecture work for Release 17 Mission Critical features

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

**S3-202202 Enhancements to UPIP Support in 5GS**

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

(Replaces S3-201941)

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

**S3-202221 New WID on Security Assurance Specification for NSSAAF**

*Type: WID new For: Agreement  
 Source: Huawei, Hisilicon*

(Replaces S3-201741)

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

**S3-202255 New WID on Security Assurance Specification for NSSAAF**

*Type: WID new For: Agreement  
 Source: Huawei, Hisilicon*

(Replaces S3-201741)

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

## 5 Studies

### 5.1 Study on Security for NR Integrated Access and Backhaul

**S3-201981 Updates on Rel-16 IAB Conclusions**

*Type: pCR For: Approval  
 33.824 v0.6.0  
 Source: Samsung*

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

**S3-201982 Clean-up of IAB TR 33.824**

*Type: pCR For: Approval  
 33.824 v0.6.0  
 Source: Samsung*

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

### 5.2 Study on 5G security enhancement against false base stations

**S3-201520 Reply LS to SA3 on FBS detection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1914224*

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

**S3-201555 pCR: Updates to TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Deutsche Telekom AG*

**Abstract:**

This pCR addresses editorial changes in the solution descriptions of 3GPP TR 33.809 V0.9.0 (2020-05).

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

**S3-201592 Add certificate based solution for NPN as a new Solution**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: MITRE Corporation*

**Decision:** The document was **revised to S3-202161**.

**S3-202161 Add certificate based solution for NPN as a new Solution**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: MITRE Corporation*

(Replaces S3-201592)

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

**S3-201635 Updates to solution #20 - resolving EN in 6.20.2.2.1**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

**Decision:** The document was **revised to S3-202223**.

**S3-201636 Updates to solution #20 - resolving ENs in 6.20.2.3.1**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

**Decision:** The document was **revised to S3-202225**.

**S3-201637 Updates to solution #20 - resolving ENs in 6.20.2.4**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

**Decision:** The document was **revised to S3-202226**.

**S3-201638 Updates to solution #20 - resolving ENs in 6.20.2.5.1**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

**Decision:** The document was **revised to S3-202227**.

**S3-201707 Reply LS to RAN2 on FBS detection**

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

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

**S3-201708 Clarification for solution 4**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Huawei, HiSilicon*

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

**S3-201709 Detection of MiTM False Base Station**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Huawei, HiSilicon*

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

**S3-201718 NAS security based MIB SIBs integrity protection**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-201735 System Information Protection using On-boarding Credential in NPN**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-201861 Resolving the EN of solution#5 in the TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Huawei, Hisilicon, Lenovo*

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

**S3-201871 pCR: Conclusion of Key issue#5**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Lenovo, Motorola Mobility, Huawei*

**Abstract:**

This pCR proposes to add the conclusion of key issue#5.

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

**S3-201872 pCR: Removal of Editor’s Note in solution #15**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Lenovo, Motorola Mobility, Huawei*

**Abstract:**

This pCR proposes to remove the Editor’s Note of Solution #15.

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

**S3-201894 5GFBS-RRCResumeRequest message protection**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple, CableLabs*

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

**S3-201895 5GFBS-Way forward on DoS attack caused by modifying the signature**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple*

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

**S3-201896 5GFBS-Way forward on bidding down attack**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple*

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

**S3-201897 5GFBS-Way forward on replay attack**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple*

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

**S3-201898 5GFBS-Add a NOTE in the key issue#7 on the MitM attack**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple*

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

**S3-201899 5GFBS-Addressing EN on how to prevent UE camping on the FBS for solution#11**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple*

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

**S3-201900 5GFBS-Addressing EN on MitM attack for solution #11**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Apple*

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

**S3-201901 5GFBS-Draft reply LS to RAN2 on reply LS to SA3 on FBS detection(R2-1914224/S3-200944)**

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

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

**S3-201952 Conclusion of Key Issue #3**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Qualcomm Incorporated*

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

**S3-201979 [5GFBS] Resume Cause protection**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202018**.

**S3-202009 DSnF improvements in time synchronization**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-202108**.

**S3-202016 5GFBS: Detecting FBS based on UE Positioning Measurements**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202142**.

**S3-202018 [5GFBS] Resume Cause protection**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Samsung*

(Replaces S3-201979)

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

**S3-202026 Cryptographic CRC in MAC to avoid MitM relay nodes**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-202109**.

**S3-202108 DSnF improvements in time synchronization**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Philips International B.V.*

(Replaces S3-202009)

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

**S3-202109 Cryptographic CRC in MAC to avoid MitM relay nodes**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Philips International B.V.*

(Replaces S3-202026)

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

**S3-202142 5GFBS: Detecting FBS based on UE Positioning Measurements**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-202016)

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

**S3-202150 draft TR for 5GFBS**

*Type: draft TR For: Approval  
 33.809 v0.10.0  
 Source: Apple Computer Trading Co. Ltd*

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

**S3-202223 Updates to solution #20 - resolving EN in 6.20.2.2.1**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

(Replaces S3-201635)

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

**S3-202225 Updates to solution #20 - resolving ENs in 6.20.2.3.1**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

(Replaces S3-201636)

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

**S3-202226 Updates to solution #20 - resolving ENs in 6.20.2.4**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

(Replaces S3-201637)

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

**S3-202227 Updates to solution #20 - resolving ENs in 6.20.2.5.1**

*Type: pCR For: Approval  
 33.809 v0.9.0  
 Source: CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications*

(Replaces S3-201638)

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

### 5.3 Study on SECAM and SCAS for 3GPP virtualized network products

**S3-201770 Clarifying summary of threats for GVNP**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201771 Adding security functional requirements derived from 3GPP specifications – general SBA SBI aspects**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201772 Adding hardening requirements for GVNP of type 1**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201773 Adding hardening requirements for GVNP of type 2**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201774 Adding hardening requirements for GVNP of type 3**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201775 Adding basic vulnerability testing requirements for GVNP**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201776 Adding vendor development and product lifecycle processes and test laboratory accreditation into clause 6**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201777 Adding evaluation and SCAS instantiation into clause 7**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201778 Adding test case into clause 5.2.5.5.8.5.1**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201779 Adding test case into clause 5.2.5.6.6.1**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-201780 Adding conclusion into clause 8**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: China Mobile*

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

**S3-202010 SCAS VNP: Threats on VNF-VNFM Interface**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202011 SCAS VNP: Security requirements on the interface between VNF and VNFM**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202012 SCAS VNP: Software Tampering**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202013 SCAS VNP: VM Escape and Hypervisor Escape**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202014 SCAS VNP: Secure Execution Environment**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202015 SCAS VNP: DoS Attack via Changing Virtualized Resource**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

### 5.4 Study on User Plane Integrity Protection

**S3-201507 Reply LS on Updated User Plane Integrity Protection advice**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-204194*

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

**S3-201549 LS on mandatory support of full rate user plane integrity protection for 5G**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-200617*

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

**S3-201634 Revise the Evaluation for Solution 5 in TR 33.853**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: China Mobile*

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

**S3-201911 UP IP-New solution to address key issue#5**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: Apple*

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

**S3-201940 Solving key issue #7 on moving bearer that require UP IP to EPS using the existing methods**

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

**Decision:** The document was **revised to S3-202097**.

**S3-201956 UPIP: Update to solution #11 (UP IP over eUTRA connected to EPS)**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202086**.

**S3-201957 UPIP: Update to solution #12, resolving editor note**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: Ericsson*

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

**S3-202001 pCR to TR33.853 - Updates to solution 14**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: VODAFONE Group Plc*

**Abstract:**

Updates solution 16 with editorial corrections and adds conclusion

**Decision:** The document was **revised to S3-202258**.

**S3-202008 pCR to TR33.853 - Addition of solution addressing KI#8**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-202257**.

**S3-202045 pCR to TR33.853 - Update to section 4**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: VODAFONE Group Plc*

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

**S3-202047 pCR to 55.853 - Addition of conclusions**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: VODAFONE Group Plc*

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

**S3-202086 UPIP: Update to solution #11 (UP IP over eUTRA connected to EPS)**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: Ericsson*

(Replaces S3-201956)

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

**S3-202097 Solving key issue #7 on moving bearer that require UP IP to EPS using the existing methods**

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

(Replaces S3-201940)

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

**S3-202257 pCR to TR33.853 - Addition of solution addressing KI#8**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: VODAFONE Group Plc*

(Replaces S3-202008)

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

**S3-202258 pCR to TR33.853 - Updates to solution 14**

*Type: pCR For: Approval  
 33.853 v1.0.0  
 Source: VODAFONE Group Plc*

(Replaces S3-202001)

**Abstract:**

Updates solution 16 with editorial corrections and adds conclusion

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

**S3-202260 TR 33.853 v1.1.0**

*Type: draft TR For: Approval  
 33.853 v1.1.0  
 Source: VODAFONE Group Plc*

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

### 5.5 Study on Security Impacts of Virtualisation

### 5.6 Study on authentication enhancements in 5GS

**S3-201543 Reply to LS on Resynchronisations**

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

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

**S3-201598 Certificate-Based Encryption Solution**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: MITRE Corporation*

**Decision:** The document was **revised to S3-202076**.

**S3-201613 SQNms protection by concealment**

*Type: pCR For: Approval  
 33.846 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202099**.

**S3-201614 SQN protection during re-synchronisation procedure in AKA**

*Type: pCR For: Approval  
 33.846 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202098**.

**S3-201615 Key Issue on Linking of UEs by SUCI replay attack**

*Type: pCR For: Approval  
 33.846 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202100**.

**S3-201631 Key issue about the SUCI Replaying attacks in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: China Mobile*

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

**S3-201632 Solution to mitgate the SUPI guessing attack in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: China Mobile*

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

**S3-201633 Complementary to Key issue to mitigate the SUCI guessing attacks in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: China Mobile*

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

**S3-201725 Conclusion on mitigation against the linkability attack**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Huawei, Hisilicon*

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

**S3-201929 Proposed removal of a redundant Editor’s Note from key issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-201930 Some evaluation of solution#2.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-201931 Some evaluation of solution #2.2 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202094**.

**S3-201932 Some evaluation of solution #2.3 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-201933 Some evaluation of solution #2.5 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-201934 Resolving the editor’s notes in the solution #4.1**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-201935 Proposing a conclusion for key issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.6.1  
 Source: Qualcomm Incorporated*

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

**S3-201936 Adding MACS as an input parameter to the calculation of AK\* to provide freshness**

*Type: CR For: Agreement  
 33.102 v16.0.0 CR-0277 rev 2 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-191529)

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

**S3-202019 pCR to TR 33.846: editorial corrections for solution #2.4**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: THALES*

**Decision:** The document was **revised to S3-202070**.

**S3-202020 pCR to TR 33.846: evaluation of solution #2.4**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: THALES*

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

**S3-202042 Discussion paper on removal of invalid authentication result in UDM**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-202043 LS on Removal of invalid authentication result in UDM**

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

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

**S3-202044 Authentication Result Confirmation**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0942 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202070 pCR to TR 33.846: editorial corrections for solution #2.4**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: THALES*

(Replaces S3-202019)

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

**S3-202072 Draft TR 33.846 v0.7.0 Study on authentication enhancements in the 5G System (5GS)**

*Type: draft TR For: Approval  
 33.846 v0.7.0  
 Source: Ericsson Japan K.K.*

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

**S3-202076 Certificate-Based Encryption Solution**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: MITRE Corporation, AT&T, InterDigital, DoD, Apple, CISA/ECD, III, CableLabs*

(Replaces S3-201598)

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

**S3-202094 Some evaluation of solution #2.2 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.6.0  
 Source: Qualcomm Incorporated*

(Replaces S3-201931)

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

**S3-202098 SQN protection during re-synchronisation procedure in AKA**

*Type: pCR For: Approval  
 33.846 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201614)

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

**S3-202099 SQNms protection by concealment**

*Type: pCR For: Approval  
 33.846 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201613)

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

**S3-202100 Key Issue on Linking of UEs by SUCI replay attack**

*Type: pCR For: Approval  
 33.846 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201615)

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

### 5.7 Study on storage and transport of the security parameters in a 5GC, that are used by the ARPF for Authentication

**S3-201551 New Solution for KI2 - Encrypted storage of LTK in UDR**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: KPN N.V.*

**Abstract:**

A new solution is proposed for the protection of the long term key during the storage in the UDR. The solution proposes to store the key in encrypted form using a symmetric key encryption algorithm.

**Decision:** The document was **revised to S3-202060**.

**S3-201552 New Solution for KI3 - Encrypted transfer of LTK out of UDR**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: KPN N.V.*

**Abstract:**

A new solution is proposed for the transfer of the long-term key between UDR and UDM/APRF. The solution proposes to transfer the long term key in encrypted form using a symmetric-key algorithm.

**Decision:** The document was **revised to S3-202059**.

**S3-201626 Milenage AKA authenticaiton**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: China Telecommunications*

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

**S3-201627 TUAK AKA authenticaiton**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-202110**.

**S3-201628 Counter related parameters**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: China Telecommunications*

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

**S3-201927 pCR to TR 33.845: Location of ARPF functionality**

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

**Abstract:**

It is proposed to remove EN related to the possibility for the HSS to provide the ARPF functionality as described in UDICOM TS 23.632.

**Decision:** The document was **revised to S3-202061**.

**S3-201928 Location of ARPF functionality**

*Type: CR For: Agreement  
 33.501 v16.3.0 CR-0934 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

It is specified that the ARPF functionality for the generation of 5G AVs can be deployed as a function of the UDM or as a function of the HSS.

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

**S3-202059 New Solution for KI3 - Encrypted transfer of LTK out of UDR**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: KPN N.V.*

(Replaces S3-201552)

**Abstract:**

A new solution is proposed for the transfer of the long-term key between UDR and UDM/APRF. The solution proposes to transfer the long term key in encrypted form using a symmetric-key algorithm.

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

**S3-202060 New Solution for KI2 - Encrypted storage of LTK in UDR**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: KPN N.V.*

(Replaces S3-201551)

**Abstract:**

A new solution is proposed for the protection of the long term key during the storage in the UDR. The solution proposes to store the key in encrypted form using a symmetric key encryption algorithm.

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

**S3-202061 pCR to TR 33.845: Location of ARPF functionality**

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

(Replaces S3-201927)

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

**S3-202110 TUAK AKA authenticaiton**

*Type: pCR For: Approval  
 33.845 v0.3.0  
 Source: China Telecommunications*

(Replaces S3-201627)

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

**S3-202261 TR33.845 v0.4.0**

*Type: draft TR For: Approval  
 33.845 v0.4.0  
 Source: VODAFONE Group Plc*

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

### 5.8 Study on security aspects of Unmanned Aerial Systems

**S3-201593 New Key Issue for TR 33.854 – UAV and UAV-C Location Information veracity**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

**Decision:** The document was **revised to S3-202088**.

**S3-201594 New Key Issue for TR 33.854 –UAV authentication and authorisation**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201595 New Key Issue for TR 33.854 – C2 communications security**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201596 New Key Issue for TR 33.854 – UAV and UAC-C pairing authorization**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201597 New Key Issue for TR 33.854 – New\_KI\_UAS\_TR\_-\_Revocation of UAV auhorisation**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201599 New Key Issue for TR 33.854 – Privacy protection of UAS identities**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

**Decision:** The document was **revised to S3-202090**.

**S3-201600 New Key Issue for TR 33.854 – differentiated privacy for UAS-UTM connection**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201601 New Key Issue for TR 33.854 – differentiated security for UAS-UAV connection**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201602 New Key Issue for TR 33.854 – non-repudiation for UAS-UAV exchanges**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201603 New Key Issue for TR 33.854 – regulatory compliance**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201604 Withdrawn - New Key Issue for TR 33.854 – Detection and identification of problematic UAS**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201605 New Key Issue for TR 33.854 – Security protection of UAS-UTM information exchanges**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201606 New Key Issue for TR 33.854 – Impersonation of UAS entities’ identities**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201607 Withdrawn - New Key Issue for TR 33.xyz – Limiting the information exchange between UAS and UTM/USS to authorised types and granularity of information**

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

**Abstract:**

This contribution proposes a new KI for TR 33.xyz.

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

**S3-201608 New Key Issue for TR 33.854 – Secure delivery of UAV and UAC-C identities and other info to UTM/USS**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201664 New Key Issue for TR 33.854– Detection and identification of problematic UAS**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.854.

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

**S3-201670 UAS Key Issue on location**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Futurewei*

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

**S3-201671 UAS Key Issue on UAV**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Futurewei*

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

**S3-201726 New Key Issue on protection of flight information in remote identification**

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

**Decision:** The document was **revised to S3-202127**.

**S3-201792 KI on UAV authentication and authorization**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201818 New KI: UAV/UAV-C authentication and authorization**

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

**Decision:** The document was **revised to S3-202111**.

**S3-201819 New KI: UAV and UAV-C pairing security**

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

**Decision:** The document was **revised to S3-202112**.

**S3-201820 New KI: privacy in remote Identification**

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

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

**S3-201821 New KI: TPAE security**

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

**Decision:** The document was **revised to S3-202113**.

**S3-201822 Introduction: Overview of Unmanned Aerial Systems**

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

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

**S3-201823 A solution to UAV/UAV-C authentication and authorization**

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

**Decision:** The document was **revised to S3-202114**.

**S3-201824 A solution to UAV/UAV-C pairing authorization**

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

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

**S3-201876 Key Issue on privacy protection for broadcast messages**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a key issue on privacy protection for broadcast messages.

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

**S3-201893 Key Issue on Security of Command and Control Communication**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a Key Issue on Security of Command and Control Communication in UAS to TR 33.854

**Decision:** The document was **revised to S3-202155**.

**S3-201937 Proposed scope for TR 33.854 on UAS security**

*Type: other For: Approval  
 33.854 v..  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202095**.

**S3-201938 Adding a reference to the UAS architecture from TS 23.754**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-202096**.

**S3-201939 Proposal to add a key issue on authorising UAV to use the 3GPP network**

*Type: other For: Approval  
 33.854 v..  
 Source: Qualcomm Incorporated*

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

**S3-202088 New Key Issue for TR 33.854 – UAV and UAV-C Location Information veracity**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Europe, Ltd., Futurewei Technologies*

(Replaces S3-201593)

**Abstract:**

This contribution proposes a new KI for UAV/UAVC location (spoofing attacks)

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

**S3-202090 New Key Issue for TR 33.854 – Privacy protection of UAS identities**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: InterDigital, Europe, Ltd., Huawei, HiSilicon, Lenovo, Motorola Mobility*

(Replaces S3-201599)

**Abstract:**

This contribution proposes a new KI for Privacy protection of UAS identities

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

**S3-202095 Proposed scope for TR 33.854 on UAS security**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Qualcomm Incorporated*

(Replaces S3-201937)

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

**S3-202096 Adding a reference to the UAS architecture from TS 23.754**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Qualcomm Incorporated, Huawei, Hsilicon*

(Replaces S3-201938)

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

**S3-202111 New KI: UAV/UAV-C authentication and authorization**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Huawei, HiSilicon, InterDigital, Qualcomm, Nokia, Nokia Shanghai Bell*

(Replaces S3-201818)

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

**S3-202112 A new key issue on pairing authorization for UAV and UAVC**

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

(Replaces S3-201819)

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

**S3-202113 A new key issue on TPAE security**

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

(Replaces S3-201821)

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

**S3-202114 A new solution to UAS authentication and authorization**

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

(Replaces S3-201823)

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

**S3-202127 New Key Issue on protection of information in remote identification and between UAV/UAVC and UTM/USS**

*Type: pCR For: Approval  
 33.854 v0.0.0  
 Source: Huawei, Hisilicon, Interdigital, Futurewei*

(Replaces S3-201726)

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

**S3-202155 Key Issue on Security of Command and Control Communication**

*Type: pCR For: Approval  
 33.854 v0.0.1  
 Source: Lenovo, Motorola Mobility, Huawei, HiSilicon, Interdigital*

(Replaces S3-201893)

**Abstract:**

This pCR proposes a Key Issue to TR 33.854 on Security of Command and Control Communication in UAS

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

**S3-202159 Draft TR 33.854**

*Type: draft TR For: Approval  
 33.854 v0.1.0  
 Source: Qualcomm*

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

### 5.9 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-201530 Reply LS on Application Architecture for enabling Edge Applications**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004386*

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

**S3-201538 LS on security procedures for Edge Applications**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-200945*

**Decision:** The document was **replied to in S3-202087**.

**S3-201539 LS on IP address to GPSI translation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-200947*

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

**S3-201625 Key issue on user consent/authorization for network capability exposure to Edge Application Servers**

*Type: pCR For: Approval  
 33.839 v0.1.0  
 Source: China Telecommunications*

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

**S3-201663 TR 33.839 - New key issue on UE location spoofing attack in 5G EC environment**

*Type: pCR For: Approval  
 33.839 v0.1.0  
 Source: LG Electronics Inc.*

**Abstract:**

A new key issue on UE location spoofing attack for EC is proposed.

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

**S3-201668 Key Issue on Edge Data Network authentication and authorization**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Futurewei*

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

**S3-201669 Key Issue on Edge UE ID and credential protection**

*Type: pCR For: (not specified)  
 33.839 v0.0.0  
 Source: Futurewei*

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

**S3-201672 Key issue on Authentication and Authorization**

*Type: pCR For: Approval  
 33.839 v0.0.1  
 Source: CATT*

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

**S3-201701 Key Issue: Security Requirements for EDGE-1 Interface**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S3-202115**.

**S3-201703 Key Issue: Security Requirements for EDGE-4 Interface**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S3-202116**.

**S3-201706 Key Issue: Security Requirements for EDGE-6 Interface**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S3-202117**.

**S3-201739 Reply LS for IP address to GPSI translation**

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

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

**S3-201749 New KI for EAS discovery**

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

**Decision:** The document was **revised to S3-202119**.

**S3-201750 New KI for on Network Information Provisioning to Local Applications with low latency**

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

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

**S3-201830 New Key Issue on service provisioning**

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

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

**S3-201831 New Key Issue on service consuming**

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

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

**S3-201832 New Key Issue on EES capability exposure to EAS**

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

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

**S3-201833 EC: Scope for edge computing SID**

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

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

**S3-201834 Skeleton for edge computing SID**

*Type: draft TR For: Approval  
 33.839 v0.0.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202073**.

**S3-201835 EC: New Key issue on the transport security for the EDGE-1-9**

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

**Decision:** The document was **revised to S3-202074**.

**S3-201902 MEC-New key issue on DNS address modification**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Apple*

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

**S3-201903 MEC-New Solution on mitigating DNS request modification attack**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Apple*

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

**S3-201904 MEC-New key issue on user consent on sharing sensitive information**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Apple*

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

**S3-201905 MEC-Reply LS to SA6 (S6-200947) on the protection of user’s consent**

*Type: LS out For: Approval  
 33.839 v0.0.0  
 to -  
 Source: Apple*

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

**S3-201906 MEC-New key issue on authentication based on 3GPP credentials**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Apple*

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

**S3-201907 MEC-New solution on authentication based on 3GPP credentials**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Apple*

**Decision:** The document was **revised to S3-202151**.

**S3-201969 Key issue on authentication/authorization of Edge Enabler Client**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Samsung*

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

**S3-201970 Authentication/authorization framework for Edge Enabler Client and server**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202062**.

**S3-201971 Key issue on user's consent for exposure of information to Edge Application**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202063**.

**S3-201972 User's consent for exposure of information to Edge Application**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Samsung*

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

**S3-202062 Authentication/authorization framework for Edge Enabler Client and server**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Samsung*

(Replaces S3-201970)

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

**S3-202063 Key issue on user's consent for exposure of information to Edge Application**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Samsung, China Telecommunications, Apple*

(Replaces S3-201971)

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

**S3-202073 Skeleton for edge computing SID**

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

(Replaces S3-201834)

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

**S3-202074 EC: New Key issue on the transport security for the EDGE-1-9**

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

(Replaces S3-201835)

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

**S3-202085 Draft TR 33.839 Study on security aspects of enhancement of support for edge computing in 5G Core (5GC)**

*Type: draft TR For: Approval  
 33.839 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-202087 Reply LS on security procedures for Edge Applications**

*Type: LS out For: Approval  
 to SA6  
 Source: Huawei, Hisilicon*

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

**S3-202115 Key Issue: Security Requirements for EDGE-1 Interface**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Intel Deutschland GmbH*

(Replaces S3-201701)

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

**S3-202116 Key Issue: Security Requirements for EDGE-4 Interface**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Intel Deutschland GmbH*

(Replaces S3-201703)

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

**S3-202117 Key Issue: Security Requirements for EDGE-6 Interface**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Intel Deutschland GmbH*

(Replaces S3-201706)

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

**S3-202119 New KI for EAS discovery**

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

(Replaces S3-201749)

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

**S3-202151 MEC-New solution on authentication based on 3GPP credentials**

*Type: pCR For: Approval  
 33.839 v0.0.0  
 Source: Apple*

(Replaces S3-201907)

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

### 5.10 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS

**S3-201536 LS on Security Requirements for Sidelink/PC5 Relays**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004750*

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

**S3-201616 New Key Issue for TR 33.847 – privacy of information over the UE-to-Network**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201617 New Key Issue for TR 33.847 – integrity and confidentiality of information over the UE-to-Network Relay.**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201618 New Key Issue for TR 33.847 – privacy of information over the UE-to-UE Relay.**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201619 New Key Issue for TR 33.847 – integrity and confidentiality of information over the UE-to-UE Relay.**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

**Decision:** The document was **revised to S3-202158**.

**S3-201620 New Key Issue for TR 33.abc – security preservation for path change**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201621 New Key Issue for TR 33.847 – privacy preservation for path change**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201622 New Key Issue for TR 33.847 – Authorisation of UE to Network Relay**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201623 New Key Issue for TR 33.847 – Authorisation of UE to UE Relay**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new KI for TR 33.847.

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

**S3-201658 Draft LS to SA2 on Security requirements for Side link PC5**

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

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

**S3-201661 ProSe TR 33.847 - new KI on E2E security for ProSe UE2UE relay**

*Type: pCR For: Approval  
 33.847 v0.1.0  
 Source: LG Electronics Inc.*

**Abstract:**

A new key issue for E2E security over UE2UE relay for 5G ProSe study is proposed

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

**S3-201662 ProSe TR 33.847 - new KI on restricted discovery**

*Type: pCR For: Approval  
 33.847 v0.1.0  
 Source: LG Electronics Inc.*

**Abstract:**

A new key issue for enhanced restricted direct discovery for 5G ProSe study is proposed.

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

**S3-201756 Architecture Introduction in 5G Prose**

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

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

**S3-201757 New key issue on key distribution in prose discovery scenario**

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

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

**S3-201758 New key issue on discovery message protection**

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

**Decision:** The document was **revised to S3-202129**.

**S3-201759 New key issue on security of UE-to-Network Relay**

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

**Decision:** The document was **revised to S3-202130**.

**S3-201760 New key issue on security of one-to-one communication**

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

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

**S3-201804 Draft skeleton of TR 33.847**

*Type: draft TR For: Approval  
 33.847 v0.0.0  
 Source: CATT*

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

**S3-201806 pCR to TR33.847-Scope**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: CATT*

**Decision:** The document was **revised to S3-202144**.

**S3-201807 pCR to TR33.847-Key issue on ProSe UE-to-UE relay discovery**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: CATT*

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

**S3-201808 pCR to TR33.847-Key issue on ProSe relays**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: CATT*

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

**S3-201826 Definitions and abbreviations**

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

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

**S3-201827 Scope of Prose Security**

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

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

**S3-201836 5G ProSe: New Key issue on authorization in the UE-to-UE relay scenario**

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

**Decision:** The document was **revised to S3-202146**.

**S3-201837 5G ProSe: New Key issue on authorization in the UE-to-Network relay scenario**

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

**Decision:** The document was **revised to S3-202147**.

**S3-201908 ProSe- New key issue on privacy protection in authentication procedure via UE-to-network relay**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Apple*

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

**S3-201909 ProSe- New key issue on PC5 security against UE-to-UE relay**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Apple*

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

**S3-201910 ProSe- New solution on security of UE-to-UE relay**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Apple*

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

**S3-201949 Key Issue on PC5 link establishment for UE-to-network relay**

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

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

**S3-201950 Reply LS on Security Requirements for Sidelink/PC5 Relays**

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

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

**S3-201960 Key issue on key management in 5G ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202064**.

**S3-201961 Key management in 5G ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202065**.

**S3-201962 Key issue on handling security policies in ProSe relay communication**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

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

**S3-201963 Handling security policies in ProSe relay communication**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

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

**S3-201964 Key issue on secure data transfer between UE and 5GDDNMF in ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202066**.

**S3-201965 Secure data transfer between UE and 5GDDNMF in ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-202067**.

**S3-202021 ProSe: KI for Provisioning of ProSe parameters**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Ericsson*

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

**S3-202022 ProSe: KI for Open Discovery**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Ericsson*

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

**S3-202023 ProSe: KI for Restricted discovery**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Ericsson*

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

**S3-202024 ProSe: KI for UE-to-network Relay**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Ericsson*

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

**S3-202025 ProSe: KI for UE-to-UE Relay**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Ericsson*

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

**S3-202064 Key issue on key management in 5G ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

(Replaces S3-201960)

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

**S3-202065 Key management in 5G ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

(Replaces S3-201961)

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

**S3-202066 Key issue on secure data transfer between UE and 5GDDNMF in ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung, Ericsson*

(Replaces S3-201964)

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

**S3-202067 Secure data transfer between UE and 5GDDNMF in ProSe**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Samsung*

(Replaces S3-201965)

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

**S3-202129 New key issue on discovery message protection**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Huawei, Hisilicon, LG Electronics, Ericsson, CATT, Interdigital*

(Replaces S3-201758)

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

**S3-202130 New key issue on security of UE-to-Network Relay**

*Type: pCR For: Approval  
 33.847 v0.0.0  
 Source: Huawei, Hisilicon, Interdigital, Qualcomm Incorporated,CATT, Ericsson,Apple*

(Replaces S3-201759)

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

**S3-202144 pCR to TR33.847-Scope**

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

(Replaces S3-201806)

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

**S3-202145 Draft TR 33.847**

*Type: draft TR For: Approval  
 33.847 v0.1.0  
 Source: CATT*

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

**S3-202146 5G ProSe: New Key issue on authorization in the UE-to-UE relay scenario**

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

(Replaces S3-201836)

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

**S3-202147 5G ProSe: New Key issue on authorization in the UE-to-Network relay scenario**

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

(Replaces S3-201837)

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

**S3-202157 New Key Issue for TR 33.847 – submission of draft\_S3-201619-r5 that is a merger of S3-201619, S3-201661, and S3-201909**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc.*

(Replaces S3-201619)

**Abstract:**

This contribution proposes a new KI for TR 33.847. It is a submission of draft\_S3-201619-r5 that is a merger of S3-201619, S3-201661, and S3-201909 approved during the first week of S3#100-e.

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

**S3-202158 New Key Issue for TR 33.847 – submission of draft\_S3-201619-r5 that is a merger of S3-201619, S3-201661, and S3-201909**

*Type: pCR For: Approval  
 33.847 v0.0.1  
 Source: InterDigital, Inc., LG Electronics, Apple*

(Replaces S3-201619)

**Abstract:**

This contribution proposes a new KI for TR 33.847. It is a submission of draft\_S3-201619-r5 that is a merger of S3-201619, S3-201661, and S3-201909 approved during the first week of S3#100-e.

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

### 5.11 Study on security for enhanced support of Industrial IoT

**S3-201583 TR\_33.851\_IIoT\_Sec skeleton**

*Type: draft TR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202101**.

**S3-201584 Scope of study**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202102**.

**S3-201585 References**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202103**.

**S3-201586 Abbreviations**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201587 Architectural considerations**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202105**.

**S3-201588 External 5GS TSN user plane interfaces**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201589 N60 interface security**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201590 Multiple TSN working domains**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202106**.

**S3-201591 Updating 33.501 Annex L text for PTP support**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201694 New key issue on security for uplink time synchronization**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-202118**.

**S3-201695 New solution for key issue on security for uplink time synchronization**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: ZTE Corporation*

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

**S3-201724 New Key Issue on protection of UE-UE communication**

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

**Decision:** The document was **revised to S3-202126**.

**S3-202101 TR\_33.851\_IIoT\_Sec skeleton**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201583)

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

**S3-202102 Scope of study**

*Type: pCR For: Approval  
 33.851 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201584)

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

**S3-202103 References**

*Type: pCR For: Approval  
 33.851 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201585)

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

**S3-202104 Abbreviations**

*Type: pCR For: Approval  
 33.851 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201586)

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

**S3-202105 Architectural considerations**

*Type: pCR For: Approval  
 33.851 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201587)

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

**S3-202106 Multiple TSN working domains**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201590)

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

**S3-202107 TR\_33.851\_IIoT\_Sec**

*Type: draft TR For: Approval  
 33.851 v0.1.0  
 Source: Nokia*

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

**S3-202118 New key issue on security for uplink time synchronization**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: ZTE Corporation,Nokia, Nokia Shanghai Bell*

(Replaces S3-201694)

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

**S3-202126 New Key Issue on protection of UE-UE communication**

*Type: pCR For: Approval  
 33.851 v0.0.0  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-201724)

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

### 5.12 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-201696 New key issue on authorization for multicast communication services**

*Type: pCR For: Approval  
 33.850 v0.0.0  
 Source: ZTE Corporation*

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

**S3-201719 New Key Issue on Security of the MBS service authentication and authorization**

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

**Decision:** The document was **revised to S3-202120**.

**S3-201720 New Key Issue on security protection of MBS traffic**

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

**Decision:** The document was **revised to S3-202121**.

**S3-201721 Scope for TR on MBS security**

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

**Decision:** The document was **revised to S3-202123**.

**S3-201722 Proposed Skeleton for MBS SID**

*Type: draft TR For: Approval  
 33.850 v0.0.0  
 Source: Huawei, Hisilicon*

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

**S3-201723 New Key Issue on key distribution**

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

**Decision:** The document was **revised to S3-202125**.

**S3-201865 Revocation of 5G multicast service authorization**

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

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

**S3-201951 Key Issue on transport security for MBS flows**

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

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

**S3-202120 New Key Issue on Security of authentication and authorization for Multicast communication services**

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

(Replaces S3-201719)

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

**S3-202121 New Key Issue on security protection of MBS traffic**

*Type: pCR For: Approval  
 33.850 v0.0.0  
 Source: HuaWei Technologies Co., Ltd*

(Replaces S3-201720)

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

**S3-202122 Scope for TR on MBS security**

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

(Replaces S3-201721)

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

**S3-202123 Scope for TR on MBS security**

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

(Replaces S3-201721)

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

**S3-202124 Proposed Skeleton for MBS SID**

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

(Replaces S3-201722)

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

**S3-202125 New Key Issue on key distribution**

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

(Replaces S3-201723)

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

**S3-202137 Draft TR 33.850**

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

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

### 5.13 Study on enhanced security support for Non-Public Networks

**S3-201525 LS on Questions on onboarding requirements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-201087*

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

**S3-201526 Reply LS on Questions on onboarding requirements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-202266*

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

**S3-201527 Questions on onboarding requirements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2001729*

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

**S3-201529 LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004385*

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

**S3-201582 Skeleton TR 33.857 v000**

*Type: draft TR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

**Abstract:**

Proposed skeleton for the study.

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

**S3-201639 Architectural assumptions and definitions**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201640 Key issue on requirements for storing non-3GPP credentials**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201641 Key issue on device and DCS authenticity**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201642 Key issue on trustworthiness of onboarding networks**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201643 Key issue related to primary authentication during onboarding**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201644 Key issue on invalid device provisioning**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201645 Key issue on AUSF with AAA integration**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-201697 Key Issue: UE onboarding and provisioning for non-public networks**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Intel Deutschland GmbH*

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

**S3-201698 Key Issue: Authentication using credentials owned by an entity separate from the SNPN UE onboarding and provisioning for non-public networks**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Intel Deutschland GmbH*

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

**S3-201699 Solution to UE onboarding and provisioning for non-public networks**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Intel Deutschland GmbH*

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

**S3-201727 New key issue on authentication with credentials owned by an entity separate from the SNPN**

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

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

**S3-201728 New key issue on authentication and authorization for UE onboarding between UE and PNI-NPN**

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

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

**S3-201729 New key issue on authentication and authorization for UE onboarding between UE and SNPN**

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

**Decision:** The document was **revised to S3-202128**.

**S3-201730 Reply LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN**

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

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

**S3-201825 New KI: Authentication and authorization checkpoint for PNI-NPN**

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

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

**S3-201828 New Key Issue on user ID privacy**

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

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

**S3-201829 New Key Issue on secure provisioning between provisioning server and UE**

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

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

**S3-201875 Key Issue to support SNPN along with credentials owned by an entity separate from the SNPN**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a key Issue to support SNPN along with credentials owned by an entity separate from the SNPN.

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

**S3-201925 New KI: Support of IMS voice and emergency services for SNPN**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

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

**S3-201953 Reply LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN**

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

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

**S3-201986 eNPN Proposed TR Assumptions**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202091**.

**S3-201987 eNPN New KI: Credentials owned by an external entity**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202092**.

**S3-201988 eNPN New KI: Initial Access**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

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

**S3-201989 eNPN New KI: Provisioning**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202093**.

**S3-201990 eNPN [DRAFT] LS on AAA based solutions for credentials owned by an entity separate from the SNPN**

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

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

**S3-201994 eNPN TR scope**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

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

**S3-201995 eNPN TR Definitions**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

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

**S3-202017 eNPN Proposed TR Introduction**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-202089**.

**S3-202068 Draft TR 33857 v010 Study on enhanced security support for Non-Public Networks (NPN)**

*Type: draft TR For: Approval  
 33.857 v0.1.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S3-202089 eNPN Proposed TR Introduction**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson*

(Replaces S3-202017)

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

**S3-202091 eNPN Proposed TR Assumptions**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces S3-201986)

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

**S3-202092 eNPN New KI: Credentials owned by an external entity**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility, Huawei, Hisilicon, Intel, Qualcomm Incorporated*

(Replaces S3-201987)

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

**S3-202093 eNPN New KI: Provisioning**

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

(Replaces S3-201989)

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

**S3-202128 New key issue on authentication and authorization for UE onboarding between UE and SNPN**

*Type: pCR For: Approval  
 33.857 v0.0.0  
 Source: Huawei, Hisilicon,Ericsson, Nokia, Nokia Shanghai Bell, Intel, Qualcomm Incorporated*

(Replaces S3-201729)

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

**S3-202238 New key issue on authentication and authorization for UE onboarding between UE and SNPN**

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

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

### 5.14 Study on security aspects of the Disaggregated gNB Architecture

**S3-201629 Skeleton for TR 33.840**

*Type: draft TR For: Approval  
 33.840 v0.0.1  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-201704**.

**S3-201630 Scope for TR 33.840**

*Type: pCR For: Approval  
 33.840 v0.0.1  
 Source: China Telecommunications*

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

**S3-201665 Requirements for TR 33.840**

*Type: pCR For: Approval  
 33.840 v0.0.1  
 Source: China Telecommunications*

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

**S3-201666 Discussion on the Scenario and Requirement for the Disaggregated gNB**

*Type: discussion For: Discussion  
 Source: China Telecommunications*

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

**S3-201667 key issue on security policy differentiation in CU-UPs**

*Type: pCR For: Approval  
 33.840 v0.0.1  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-201702**.

**S3-201673 Key issue on key isolation**

*Type: pCR For: Approval  
 33.840 v0.0.1  
 Source: CATT*

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

**S3-201674 Key issue on security policy differentiation**

*Type: pCR For: Approval  
 33.840 v0.0.1  
 Source: CATT*

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

**S3-201702 key issue on security policy differentiation in CU-UPs**

*Type: pCR For: Approval  
 33.840 v0.0.1  
 Source: China Telecommunications*

(Replaces S3-201667)

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

**S3-201704 Skeleton for TR 33.840**

*Type: draft TR For: Approval  
 33.840 v0.0.1  
 Source: China Telecommunications*

(Replaces S3-201629)

**Decision:** The document was **revised to S3-201705**.

**S3-201705 Skeleton for TR 33.840**

*Type: draft TR For: Approval  
 33.840 v0.0.2  
 Source: China Telecommunications*

(Replaces S3-201704)

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

**S3-201740 Scope of Study on security aspects of the disaggregated gNB Architecture**

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

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

**S3-201890 Key Issue on User Plane Security Compromise**

*Type: pCR For: Approval  
 33.840 v0.0.2  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a Key Issue on User Plane Security Compromise to TR 33.840

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

**S3-201973 Key issue on UP keys for Disaggregated gNB architecture**

*Type: pCR For: Approval  
 33.840 v0.0.0  
 Source: Samsung*

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

**S3-202229 Skeleton for TR 33.840**

*Type: draft TR For: Approval  
 33.840 v0.0.2  
 Source: China Telecommunications*

(Replaces S3-201705)

**Decision:** The document was **revised to S3-202230**.

**S3-202230 Skeleton for TR 33.840**

*Type: draft TR For: Approval  
 33.840 v0.0.3  
 Source: China Telecommunications*

(Replaces S3-202229)

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

### 5.15 Other study areas

**S3-201660 TR 33.836 - clean-up**

*Type: CR For: Approval  
 33.836 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: LG Electronics Inc.*

**Abstract:**

This contribution is prepared for overall clean up of the TR

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

**S3-201926 Clean-up, including removal of Editor's Notes**

*Type: CR For: Agreement  
 33.855 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

### 5.16 New study item proposals

**S3-201553 Discussion on adapting BEST for use in 5G networks supporting AKMA**

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

**Abstract:**

This discussion document argues the need for a study on how to adapt BEST for use in 5G networks supporting AKMA.

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

**S3-201554 Study on adapting BEST for use in 5G networks supporting AKMA**

*Type: SID new For: Approval  
 Source: KPN N.V.*

**Abstract:**

A new SID is proposed for studying how to adapt BEST for use in 5G networks supporting AKMA.

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

**S3-201675 Discussion on new SID Security Study on system enablers for devices having multiple USIMS**

*Type: discussion For: Endorsement  
 Source: Intel Deutschland GmbH*

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

**S3-201676 New SID on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules (USIM)**

*Type: SID new For: Approval  
 Source: Intel Deutschland GmbH*

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

**S3-201736 New Study on Enhancement of Authorization of API Invocation**

*Type: SID new For: Approval  
 Source: Huawei, Hisilicon, China Unicom, CAICT, CATT*

**Decision:** The document was **revised to S3-202235**.

**S3-201737 Discussion on Enhancement of Authorization of API Invocation**

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

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

**S3-201782 new SID on security aspects of 5G MSG**

*Type: SID new For: Approval  
 Source: China Mobile, China Unicom, Huawei, ZTE, CATT*

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

**S3-201783 Discussion on new SID for security aspects of enablers for Network Automation (eNA) for the 5G System (5GS) Phase 2**

*Type: discussion For: Discussion  
 Source: China Mobile*

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

**S3-201784 new SID on security aspects of eNA phase2**

*Type: SID new For: Approval  
 Source: China Mobile, Nokia, Nokia Shanghai Bell, Huawei, China Unicom, CATT, ZTE*

**Decision:** The document was **revised to S3-202256**.

**S3-201793 SID on eSBA sec cont**

*Type: SID new For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-202185**.

**S3-201809 New SID on introducing penetration test**

*Type: SID new For: (not specified)  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-202234**.

**S3-201810 Discussion paper for Rel17 SID on network slicing security**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT*

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

**S3-201811 Rel17 SID on network slice security**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT*

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

**S3-202032 Proposal for a new study on AMF re-allocation security**

*Type: discussion For: Approval  
 Source: Ericsson*

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

**S3-202033 New study on the security of AMF re-allocation**

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

**Decision:** The document was **revised to S3-202252**.

**S3-202171 FS\_eSBA\_SEC**

*Type: SID new For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Deutsche Telecom, Verizon, Mavenir, CableLabs, Mavenir, Docomo, China Mobile, Huawei, HiSilicon*

**Abstract:**

The objective of this study item is to analyse potential attacks and study necessary security enhancements. In particular, the following topics are addressed:

For direct communication:

- Authentication of NF service consumer

For indirect communication:

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

**S3-202185 SID on eSBA sec cont**

*Type: SID new For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201793)

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

**S3-202220 LS for penetration test inclusion of SCAS**

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

**Decision:** The document was **revised to S3-202244**.

**S3-202234 New SID on introducing penetration test**

*Type: SID new For: (not specified)  
 Source: Huawei, Hisilicon*

(Replaces S3-201809)

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

**S3-202235 New Study on Enhancement of Authorization of API Invocation**

*Type: SID new For: Approval  
 Source: Huawei, Hisilicon, China Unicom, CAICT, CATT*

(Replaces S3-201736)

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

**S3-202244 LS for penetration test inclusion of SCAS**

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

(Replaces S3-202220)

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

**S3-202252 New study on the security of AMF re-allocation**

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

(Replaces S3-202033)

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

**S3-202256 new SID on security aspects of eNA phase2**

*Type: SID new For: Approval  
 Source: China Mobile, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, China Unicom, CATT, ZTE, Ericsson, Lenovo, Motorola Mobility, LG Elecronics, CableLabs, Interdigital*

(Replaces S3-201784)

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

## 6 Any Other Business

**S3-202187 SA3 meeting calendar**

*Type: other For: Information  
 Source: Ericsson LM*

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

**S3-202188 Draft agenda for SA3#100bis-e meeting**

*Type: agenda For: Information  
 Source: Ericsson LM*

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-201500 | Agenda | SA WG3 Chair | revised |  | S3-202152 |
| S3-201501 | Report from SA3#99-e | MCC | approved |  |  |
| S3-201502 | Process for SA3#100-e meeting | SA WG3 Chair | revised |  | S3-201550 |
| S3-201503 | Report from last SA | SA WG3 Chair | noted |  |  |
| S3-201504 | 5G capabilities exposure for factories of the future | 5GACIA | noted |  |  |
| S3-201505 | Reply LS on IANA assigned values for mission critical | C1-203503 | noted |  |  |
| S3-201506 | Reply LS on specification of NAS COUNT for 5G | C1-203971 | noted |  |  |
| S3-201507 | Reply LS on Updated User Plane Integrity Protection advice | C1-204194 | noted |  |  |
| S3-201508 | LS on Key Management procedure in SEAL | C3-203588 | replied to |  |  |
| S3-201509 | Reply PAP/CHAP and other point-to-point protocols usage in 5GS | S2-2004481 | replied to |  |  |
| S3-201510 | Reply LS on PAP/CHAP and other point-to-point protocols usage in 5GS | C3-203609 | noted |  |  |
| S3-201511 | LS on 5G SoR integrity protection mechanism | C4-203367 | replied to |  |  |
| S3-201512 | LS on Clarification on AAA-Server address | C4-203452 | postponed |  |  |
| S3-201513 | LS Reply on Multiple Kausf upon registering via multiple Serving Networks | C4-203568 | noted |  |  |
| S3-201514 | Reply LS on S1/NG DAPS handover | CP-201312 | withdrawn |  |  |
| S3-201515 | LS on human-readable network name (HRNN) | CP-201361 | withdrawn |  |  |
| S3-201516 | LS to ITU-T Study Group 17 | ETSI TC CYBER QSC | noted |  |  |
| S3-201517 | Announcement of ISG ETI | ETSI ISG ETI | noted |  |  |
| S3-201518 | Specification of NAS COUNT for 5G | GSMA FSAG | noted |  |  |
| S3-201519 | Uniqueness of FN-RG PEI for Lawful Interception purposes | BBF | noted |  |  |
| S3-201520 | Reply LS to SA3 on FBS detection | R2-1914224 | postponed |  |  |
| S3-201521 | LS on early UE capability retrieval for eMTC | R2-2003935 | noted |  |  |
| S3-201522 | LS on the re-keying procedure for NR SL | R2-2005978 | postponed |  |  |
| S3-201523 | LS on system support for WUS | R2-2005985 | withdrawn |  |  |
| S3-201524 | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | postponed |  |  |
| S3-201525 | LS on Questions on onboarding requirements | S1-201087 | noted |  |  |
| S3-201526 | Reply LS on Questions on onboarding requirements | S1-202266 | noted |  |  |
| S3-201527 | Questions on onboarding requirements | S2-2001729 | noted |  |  |
| S3-201528 | LS on AMF Reallocation via RAN re-routing | S2-2001730 | replied to |  |  |
| S3-201529 | LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | S2-2004385 | postponed |  |  |
| S3-201530 | Reply LS on Application Architecture for enabling Edge Applications | S2-2004386 | noted |  |  |
| S3-201531 | Reply LS on early UE capability retrieval for eMTC | S2-2004446 | noted |  |  |
| S3-201532 | Reply LS on manipulation of CAG Information element by a VPLMN | S2-2004453 | noted |  |  |
| S3-201533 | Reply LS on protection of allowed CAG list against MITM Attack | S2-2004455 | noted |  |  |
| S3-201534 | Reply LS on NSSAAF in slice specific authentication | S2-2004476 | noted |  |  |
| S3-201535 | LS on user consent requirements for analytics | S2-2004560 | postponed |  |  |
| S3-201536 | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | postponed |  |  |
| S3-201537 | LS on uniqueness of PEI in certain FN-RG configurations | S3i200069 | noted |  |  |
| S3-201538 | LS on security procedures for Edge Applications | S6-200945 | replied to |  |  |
| S3-201539 | LS on IP address to GPSI translation | S6-200947 | postponed |  |  |
| S3-201540 | 256 bit algorithm candidates | ETSI SAGE | replied to |  |  |
| S3-201541 | Observations on ZUC-256 | ETSI SAGE | replied to |  |  |
| S3-201542 | Observations and questions on 256-bit security goals | ETSI SAGE | postponed |  |  |
| S3-201543 | Reply to LS on Resynchronisations | ETSI SAGE | postponed |  |  |
| S3-201544 | Use of 256-bit block Rijndael in Milenage-256 | ETSI SAGE | postponed |  |  |
| S3-201545 | Liaison statement from ETSI ISG SAI on Securing Artificial Intelligence | ETSI ISG SAI | noted |  |  |
| S3-201546 | Reply LS to TC CYBER QSC request for collaboration on migration planning of HSMs to support Quantum Safe Cryptography | ETSI TC SCP | noted |  |  |
| S3-201547 | NESAS Official Launch | GSMA SECAG | replied to |  |  |
| S3-201548 | LS on technical reports on use cases and requirements as well as architecture for vehicular multimedia | ITU-T Focus Group on Vehicular Multimedia (FG-VM) | noted |  |  |
| S3-201549 | LS on mandatory support of full rate user plane integrity protection for 5G | SP-200617 | noted |  |  |
| S3-201550 | Process for SA3#100-e meeting | SA WG3 Chair | revised | S3-201502 | S3-202058 |
| S3-201551 | New Solution for KI2 - Encrypted storage of LTK in UDR | KPN N.V. | revised |  | S3-202060 |
| S3-201552 | New Solution for KI3 - Encrypted transfer of LTK out of UDR | KPN N.V. | revised |  | S3-202059 |
| S3-201553 | Discussion on adapting BEST for use in 5G networks supporting AKMA | KPN N.V. | noted |  |  |
| S3-201554 | Study on adapting BEST for use in 5G networks supporting AKMA | KPN N.V. | noted |  |  |
| S3-201555 | pCR: Updates to TR 33.809 | Deutsche Telekom AG | approved |  |  |
| S3-201556 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | noted |  |  |
| S3-201557 | Clarification on the definition of KNRP-sess | InterDigital, Inc., LG Electronics, Qualcomm Incorporated | agreed |  |  |
| S3-201558 | Resolution of editor's note in clause 6.3.2.1 | NTT DOCOMO | agreed |  |  |
| S3-201559 | Resolution of editor's note in clause 6.3.2.1 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201560 | Discussion on treatment of editor's notes in 33.501 | NTT DOCOMO | noted |  |  |
| S3-201561 | resolution of editor's notes in clause 6.8.1.2.0 | NTT DOCOMO | agreed |  |  |
| S3-201562 | resolution of editor's notes in clause 6.8.1.2.0 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201563 | resolution of editor's note in clause 6.8.1.2.2 | NTT DOCOMO | agreed |  |  |
| S3-201564 | resolution of editor's note in clause 6.8.1.2.2 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201565 | resolution of editor's note in clause 6.8.1.2.4 | NTT DOCOMO, ZTE | agreed |  |  |
| S3-201566 | resolution of editor's note in clause 6.8.1.2.4 - R16 mirror | NTT DOCOMO, ZTE | agreed |  |  |
| S3-201567 | resolution of editor's note in clause 6.9.1 | NTT DOCOMO | agreed |  |  |
| S3-201568 | resolution of editor's note in clause 6.9.1 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201569 | resolution of editor's note in clause 6.9.4.1 | NTT DOCOMO | agreed |  |  |
| S3-201570 | resolution of editor's note in clause 6.9.4.1 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201571 | resolution of editor's note in clause 6.9.4.2 | NTT DOCOMO | agreed |  |  |
| S3-201572 | resolution of editor's note in clause 6.9.4.2 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201573 | resolution of editor's note in clause 6.9.4.3 | NTT DOCOMO | agreed |  |  |
| S3-201574 | resolution of editor's note in clause 6.9.4.3 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201575 | resolution of editor's note in clause 10.2.2.2 | NTT DOCOMO | revised |  | S3-202193 |
| S3-201576 | resolution of editor's note in clause 10.2.2.2 - R16 mirror | NTT DOCOMO | revised |  | S3-202196 |
| S3-201577 | resolution of editor's note in clause 13.2.4.4.1 | NTT DOCOMO | agreed |  |  |
| S3-201578 | resolution of editor's note in clause 13.2.4.4.1 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201579 | resolution of editor's note in clause 13.5 | NTT DOCOMO | agreed |  |  |
| S3-201580 | resolution of editor's note in clause 13.5 - R16 mirror | NTT DOCOMO | agreed |  |  |
| S3-201581 | Editorial corrections to NDS/AF | Juniper Networks | withdrawn |  |  |
| S3-201582 | Skeleton TR 33.857 v000 | Ericsson | approved |  |  |
| S3-201583 | TR\_33.851\_IIoT\_Sec skeleton | Nokia, Nokia Shanghai Bell | revised |  | S3-202101 |
| S3-201584 | Scope of study | Nokia, Nokia Shanghai Bell | revised |  | S3-202102 |
| S3-201585 | References | Nokia, Nokia Shanghai Bell | revised |  | S3-202103 |
| S3-201586 | Abbreviations | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-201587 | Architectural considerations | Nokia, Nokia Shanghai Bell | revised |  | S3-202105 |
| S3-201588 | External 5GS TSN user plane interfaces | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201589 | N60 interface security | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201590 | Multiple TSN working domains | Nokia, Nokia Shanghai Bell | revised |  | S3-202106 |
| S3-201591 | Updating 33.501 Annex L text for PTP support | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201592 | Add certificate based solution for NPN as a new Solution | MITRE Corporation | revised |  | S3-202161 |
| S3-201593 | New Key Issue for TR 33.854 – UAV and UAV-C Location Information veracity | InterDigital, Inc. | revised |  | S3-202088 |
| S3-201594 | New Key Issue for TR 33.854 –UAV authentication and authorisation | InterDigital, Inc. | merged |  | S3-202111 |
| S3-201595 | New Key Issue for TR 33.854 – C2 communications security | InterDigital, Inc. | merged |  | S3-202155 |
| S3-201596 | New Key Issue for TR 33.854 – UAV and UAC-C pairing authorization | InterDigital, Inc. | merged |  | S3-202112 |
| S3-201597 | New Key Issue for TR 33.854 – New\_KI\_UAS\_TR\_-\_Revocation of UAV auhorisation | InterDigital, Inc. | merged |  | S3-202111 |
| S3-201598 | Certificate-Based Encryption Solution | MITRE Corporation | revised |  | S3-202076 |
| S3-201599 | New Key Issue for TR 33.854 – Privacy protection of UAS identities | InterDigital, Inc. | revised |  | S3-202090 |
| S3-201600 | New Key Issue for TR 33.854 – differentiated privacy for UAS-UTM connection | InterDigital, Inc. | noted |  |  |
| S3-201601 | New Key Issue for TR 33.854 – differentiated security for UAS-UAV connection | InterDigital, Inc. | noted |  |  |
| S3-201602 | New Key Issue for TR 33.854 – non-repudiation for UAS-UAV exchanges | InterDigital, Inc. | noted |  |  |
| S3-201603 | New Key Issue for TR 33.854 – regulatory compliance | InterDigital, Inc. | noted |  |  |
| S3-201604 | Withdrawn - New Key Issue for TR 33.854 – Detection and identification of problematic UAS | InterDigital, Inc. | withdrawn |  |  |
| S3-201605 | New Key Issue for TR 33.854 – Security protection of UAS-UTM information exchanges | InterDigital, Inc. | merged |  | S3-202127 |
| S3-201606 | New Key Issue for TR 33.854 – Impersonation of UAS entities’ identities | InterDigital, Inc. | merged |  | S3-202111 |
| S3-201607 | Withdrawn - New Key Issue for TR 33.xyz – Limiting the information exchange between UAS and UTM/USS to authorised types and granularity of information | InterDigital, Inc. | withdrawn |  |  |
| S3-201608 | New Key Issue for TR 33.854 – Secure delivery of UAV and UAC-C identities and other info to UTM/USS | InterDigital, Inc. | merged |  | S3-202127 |
| S3-201609 | Corrections on security establishment | InterDigital, Inc. | not pursued |  |  |
| S3-201610 | Access Token Signature using MAC with symmetric key | Mavenir, Deutsche Telekom | agreed |  |  |
| S3-201611 | Static authorization details | Mavenir,Deutsche Telekom | revised |  | S3-202174 |
| S3-201612 | Access token indication of NF service consumer authentication via NRF | Mavenir | not pursued |  |  |
| S3-201613 | SQNms protection by concealment | Nokia, Nokia Shanghai Bell | revised |  | S3-202099 |
| S3-201614 | SQN protection during re-synchronisation procedure in AKA | Nokia, Nokia Shanghai Bell | revised |  | S3-202098 |
| S3-201615 | Key Issue on Linking of UEs by SUCI replay attack | Nokia, Nokia Shanghai Bell | revised |  | S3-202100 |
| S3-201616 | New Key Issue for TR 33.847 – privacy of information over the UE-to-Network | InterDigital, Inc. | approved |  |  |
| S3-201617 | New Key Issue for TR 33.847 – integrity and confidentiality of information over the UE-to-Network Relay. | InterDigital, Inc. | merged |  | S3-202130 |
| S3-201618 | New Key Issue for TR 33.847 – privacy of information over the UE-to-UE Relay. | InterDigital, Inc. | approved |  |  |
| S3-201619 | New Key Issue for TR 33.847 – integrity and confidentiality of information over the UE-to-UE Relay. | InterDigital, Inc. | revised |  | S3-202158 |
| S3-201620 | New Key Issue for TR 33.abc – security preservation for path change | InterDigital, Inc. | noted |  |  |
| S3-201621 | New Key Issue for TR 33.847 – privacy preservation for path change | InterDigital, Inc. | noted |  |  |
| S3-201622 | New Key Issue for TR 33.847 – Authorisation of UE to Network Relay | InterDigital, Inc. | merged |  | S3-202147 |
| S3-201623 | New Key Issue for TR 33.847 – Authorisation of UE to UE Relay | InterDigital, Inc. | merged |  | S3-202146 |
| S3-201624 | Removing rel-15 text relating to N9 roaming UP | Juniper Networks | agreed |  |  |
| S3-201625 | Key issue on user consent/authorization for network capability exposure to Edge Application Servers | China Telecommunications | merged |  | S3-202063 |
| S3-201626 | Milenage AKA authenticaiton | China Telecommunications | approved |  |  |
| S3-201627 | TUAK AKA authenticaiton | China Telecommunications | revised |  | S3-202110 |
| S3-201628 | Counter related parameters | China Telecommunications | approved |  |  |
| S3-201629 | Skeleton for TR 33.840 | China Telecommunications | revised |  | S3-201704 |
| S3-201630 | Scope for TR 33.840 | China Telecommunications | noted |  |  |
| S3-201631 | Key issue about the SUCI Replaying attacks in TR 33.846 | China Mobile | merged |  | S3-202100 |
| S3-201632 | Solution to mitgate the SUPI guessing attack in TR 33.846 | China Mobile | noted |  |  |
| S3-201633 | Complementary to Key issue to mitigate the SUCI guessing attacks in TR 33.846 | China Mobile | noted |  |  |
| S3-201634 | Revise the Evaluation for Solution 5 in TR 33.853 | China Mobile | noted |  |  |
| S3-201635 | Updates to solution #20 - resolving EN in 6.20.2.2.1 | CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | revised |  | S3-202223 |
| S3-201636 | Updates to solution #20 - resolving ENs in 6.20.2.3.1 | CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | revised |  | S3-202225 |
| S3-201637 | Updates to solution #20 - resolving ENs in 6.20.2.4 | CableLabs, Apple, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | revised |  | S3-202226 |
| S3-201638 | Updates to solution #20 - resolving ENs in 6.20.2.5.1 | CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | revised |  | S3-202227 |
| S3-201639 | Architectural assumptions and definitions | Nokia, Nokia Shanghai Bell | merged |  | S3-202091 |
| S3-201640 | Key issue on requirements for storing non-3GPP credentials | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201641 | Key issue on device and DCS authenticity | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201642 | Key issue on trustworthiness of onboarding networks | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201643 | Key issue related to primary authentication during onboarding | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201644 | Key issue on invalid device provisioning | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201645 | Key issue on AUSF with AAA integration | Nokia, Nokia Shanghai Bell | merged |  | S3-202092 |
| S3-201646 | Discussion paper on contradictory text on Kseaf deletion | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201647 | [33.180] R16 Group regroup and user regroup security | Motorola Solutions Danmark A/S | not pursued |  |  |
| S3-201648 | [33.180] MCData message store security | Motorola Solutions Danmark A/S | revised |  | S3-202176 |
| S3-201649 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | revised |  | S3-202199 |
| S3-201650 | [33.434] KM Clarifications | Motorola Solutions Danmark A/S | revised |  | S3-202178 |
| S3-201651 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | revised |  | S3-202200 |
| S3-201652 | New WID on mission critical security enhancements for release 17 | Motorola Solutions Danmark A/S | revised |  | S3-202179 |
| S3-201653 | Discussion paper on Profile B uncompressed mode misalignment with CT6 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201654 | Reply LS on Key Management procedure in SEAL | Motorola Solutions Danmark A/S | revised |  | S3-202177 |
| S3-201655 | CR to delete uncompressed mode text in profile B | Nokia, Nokia Shanghai Bell | revised |  | S3-202201 |
| S3-201656 | CR to delete uncompressed mode text in Profile B | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201657 | Draft LS to CT6 on Profile B uncompressed mode | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201658 | Draft LS to SA2 on Security requirements for Side link PC5 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201659 | Draft reply LS to RAN3 LS on User consent during Xn inter PLMN handover | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201660 | TR 33.836 - clean-up | LG Electronics Inc. | agreed |  |  |
| S3-201661 | ProSe TR 33.847 - new KI on E2E security for ProSe UE2UE relay | LG Electronics Inc. | merged |  | S3-202158 |
| S3-201662 | ProSe TR 33.847 - new KI on restricted discovery | LG Electronics Inc. | merged |  | S3-202129 |
| S3-201663 | TR 33.839 - New key issue on UE location spoofing attack in 5G EC environment | LG Electronics Inc. | noted |  |  |
| S3-201664 | New Key Issue for TR 33.854– Detection and identification of problematic UAS | InterDigital, Inc. | noted |  |  |
| S3-201665 | Requirements for TR 33.840 | China Telecommunications | withdrawn |  |  |
| S3-201666 | Discussion on the Scenario and Requirement for the Disaggregated gNB | China Telecommunications | noted |  |  |
| S3-201667 | key issue on security policy differentiation in CU-UPs | China Telecommunications | revised |  | S3-201702 |
| S3-201668 | Key Issue on Edge Data Network authentication and authorization | Futurewei | approved |  |  |
| S3-201669 | Key Issue on Edge UE ID and credential protection | Futurewei | approved |  |  |
| S3-201670 | UAS Key Issue on location | Futurewei | merged |  | S3-202088 |
| S3-201671 | UAS Key Issue on UAV | Futurewei | merged |  | S3-202127 |
| S3-201672 | Key issue on Authentication and Authorization | CATT | merged |  | S3-202115 |
| S3-201673 | Key issue on key isolation | CATT | noted |  |  |
| S3-201674 | Key issue on security policy differentiation | CATT | noted |  |  |
| S3-201675 | Discussion on new SID Security Study on system enablers for devices having multiple USIMS | Intel Deutschland GmbH | noted |  |  |
| S3-201676 | New SID on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules (USIM) | Intel Deutschland GmbH | noted |  |  |
| S3-201677 | reply LS on AMF Reallocation via RAN re-routing | ZTE Corporation | noted |  |  |
| S3-201678 | Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R15 | ZTE Corporation | agreed |  |  |
| S3-201679 | Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R16 | ZTE Corporation | revised |  | S3-202243 |
| S3-201680 | Add three Abbreviations to clause 3.3 | ZTE Corporation | revised |  | S3-202233 |
| S3-201681 | Delete routing ID in A-KID | ZTE Corporation | not pursued |  |  |
| S3-201682 | Discussion on KAF update | ZTE Corporation | noted |  |  |
| S3-201683 | Kaf update in clause 5.2 and 6.4.3 | ZTE Corporation | not pursued |  |  |
| S3-201684 | AUSF needs not store KAUSF | ZTE Corporation | not pursued |  |  |
| S3-201685 | Resolution of editor's note on other parameter in clause 6.3 | ZTE Corporation | not pursued |  |  |
| S3-201686 | Services Provided by AAnF in clause 7.1 | ZTE Corporation | merged |  | S3-202246 |
| S3-201687 | Services Provided by AUSF in clause 7.2 | ZTE Corporation | merged |  | S3-202246 |
| S3-201688 | Clarification of when to derive Kaf in UE | ZTE Corporation | not pursued |  |  |
| S3-201689 | Clarification of handling of the user plane security policy in clause 5.3.3.1.4.2.3 | ZTE Corporation | not pursued |  |  |
| S3-201690 | Clean up for eV2X | ZTE Corporation | merged |  | S3-202212 |
| S3-201691 | Update the clause 5.3.3.1.4.3 | ZTE Corporation | not pursued |  |  |
| S3-201692 | Update the clause 5.3.3.2.2 | ZTE Corporation | revised |  | S3-202232 |
| S3-201693 | Updating IPUPS of UPF to Annex L of TR 33.926 | ZTE Corporation | not pursued |  |  |
| S3-201694 | New key issue on security for uplink time synchronization | ZTE Corporation | revised |  | S3-202118 |
| S3-201695 | New solution for key issue on security for uplink time synchronization | ZTE Corporation | noted |  |  |
| S3-201696 | New key issue on authorization for multicast communication services | ZTE Corporation | merged |  | S3-202120 |
| S3-201697 | Key Issue: UE onboarding and provisioning for non-public networks | Intel Deutschland GmbH | merged |  | S3-202128 |
| S3-201698 | Key Issue: Authentication using credentials owned by an entity separate from the SNPN UE onboarding and provisioning for non-public networks | Intel Deutschland GmbH | merged |  | S3-202092 |
| S3-201699 | Solution to UE onboarding and provisioning for non-public networks | Intel Deutschland GmbH | noted |  |  |
| S3-201700 | AKMA Anchor Key derivation in the UE | CATT | withdrawn |  |  |
| S3-201701 | Key Issue: Security Requirements for EDGE-1 Interface | Intel Deutschland GmbH | revised |  | S3-202115 |
| S3-201702 | key issue on security policy differentiation in CU-UPs | China Telecommunications | noted | S3-201667 |  |
| S3-201703 | Key Issue: Security Requirements for EDGE-4 Interface | Intel Deutschland GmbH | revised |  | S3-202116 |
| S3-201704 | Skeleton for TR 33.840 | China Telecommunications | revised | S3-201629 | S3-201705 |
| S3-201705 | Skeleton for TR 33.840 | China Telecommunications | approved | S3-201704 |  |
| S3-201706 | Key Issue: Security Requirements for EDGE-6 Interface | Intel Deutschland GmbH | revised |  | S3-202117 |
| S3-201707 | Reply LS to RAN2 on FBS detection | Huawei, HiSilicon | noted |  |  |
| S3-201708 | Clarification for solution 4 | Huawei, HiSilicon | noted |  |  |
| S3-201709 | Detection of MiTM False Base Station | Huawei, HiSilicon | noted |  |  |
| S3-201710 | Editorial changes about subscript corrections | Huawei, Hisilicon | revised |  | S3-202212 |
| S3-201711 | Propose to add descriptions about Knrp ID confliction | Huawei, Hisilicon | not pursued |  |  |
| S3-201712 | Clarification on policy handling | Huawei, Hisilicon | revised |  | S3-202213 |
| S3-201713 | Clarification on algorithm selection and key derivation | Huawei, Hisilicon | revised |  | S3-202214 |
| S3-201714 | Clarification on processing null-algorithms | Huawei, Hisilicon | revised |  | S3-202215 |
| S3-201715 | Propose to mitigate the bidding down attack | Huawei, Hisilicon | not pursued |  |  |
| S3-201716 | Propose to complete security lagorithm selection for UP | Huawei, Hisilicon | revised |  | S3-202216 |
| S3-201717 | Clarifications on error case in AKMA process | Huawei, Hisilicon | revised |  | S3-202217 |
| S3-201718 | NAS security based MIB SIBs integrity protection | Huawei, Hisilicon | noted |  |  |
| S3-201719 | New Key Issue on Security of the MBS service authentication and authorization | Huawei, Hisilicon | revised |  | S3-202120 |
| S3-201720 | New Key Issue on security protection of MBS traffic | Huawei, Hisilicon | revised |  | S3-202121 |
| S3-201721 | Scope for TR on MBS security | Huawei, Hisilicon | revised |  | S3-202123 |
| S3-201722 | Proposed Skeleton for MBS SID | Huawei, Hisilicon | approved |  |  |
| S3-201723 | New Key Issue on key distribution | Huawei, Hisilicon | revised |  | S3-202125 |
| S3-201724 | New Key Issue on protection of UE-UE communication | Huawei, Hisilicon | revised |  | S3-202126 |
| S3-201725 | Conclusion on mitigation against the linkability attack | Huawei, Hisilicon | noted |  |  |
| S3-201726 | New Key Issue on protection of flight information in remote identification | Huawei, Hisilicon | revised |  | S3-202127 |
| S3-201727 | New key issue on authentication with credentials owned by an entity separate from the SNPN | Huawei, Hisilicon | merged |  | S3-202092 |
| S3-201728 | New key issue on authentication and authorization for UE onboarding between UE and PNI-NPN | Huawei, Hisilicon | noted |  |  |
| S3-201729 | New key issue on authentication and authorization for UE onboarding between UE and SNPN | Huawei, Hisilicon | revised |  | S3-202128 |
| S3-201730 | Reply LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | Huawei, Hisilicon | noted |  |  |
| S3-201731 | Alignment with RAN3 specification in R16 | Huawei, Hisilicon | not pursued |  |  |
| S3-201732 | Alignment with RAN3 specification in R15 | Huawei, Hisilicon | not pursued |  |  |
| S3-201733 | SUPI Type Clarification in R16 | Huawei, Hisilicon | revised |  | S3-202236 |
| S3-201734 | SUPI Type Clarification in R15 | Huawei, Hisilicon | revised |  | S3-202237 |
| S3-201735 | System Information Protection using On-boarding Credential in NPN | Huawei, Hisilicon | noted |  |  |
| S3-201736 | New Study on Enhancement of Authorization of API Invocation | Huawei, Hisilicon, China Unicom, CAICT, CATT | revised |  | S3-202235 |
| S3-201737 | Discussion on Enhancement of Authorization of API Invocation | Huawei, Hisilicon | noted |  |  |
| S3-201738 | Reply LS on User consent requirements for analytics | Huawei, Hisilicon | noted |  |  |
| S3-201739 | Reply LS for IP address to GPSI translation | Huawei, Hisilicon | postponed |  |  |
| S3-201740 | Scope of Study on security aspects of the disaggregated gNB Architecture | Huawei, Hisilicon | noted |  |  |
| S3-201741 | New WID on Security Assurance Specification for NSSAAF | Huawei, Hisilicon | revised |  | S3-202221 |
| S3-201742 | Aware of AF‘s AKMA service capability in the UE | Huawei, Hisilicon | not pursued |  |  |
| S3-201743 | AMF selection in NSSAA related procedure in case of dual registration in different PLMNs | Huawei, Hisilicon | noted |  |  |
| S3-201744 | AMF selection in NSSAA related procedure in case of dual registration in different PLMNs | Huawei, Hisilicon | not pursued |  |  |
| S3-201745 | Slice privacy protection in NSSAA related procedure | Huawei, Hisilicon | not pursued |  |  |
| S3-201746 | Correction to Nnssaaf\_NSSAA services service | Huawei, Hisilicon | revised |  | S3-202239 |
| S3-201747 | Secondary authentication revocation | Huawei, Hisilicon | revised |  | S3-202241 |
| S3-201748 | Secondary authentication revocation | Huawei, Hisilicon | revised |  | S3-202242 |
| S3-201749 | New KI for EAS discovery | Huawei, Hisilicon | revised |  | S3-202119 |
| S3-201750 | New KI for on Network Information Provisioning to Local Applications with low latency | Huawei, Hisilicon | approved |  |  |
| S3-201751 | Adding HSS and BSF SBI services | Huawei, Hisilicon | merged |  | S3-202069 |
| S3-201752 | Architecture support complement | Huawei, Hisilicon | merged |  | S3-202069 |
| S3-201753 | The deployment of AAnF | Huawei, Hisilicon | not pursued |  |  |
| S3-201754 | Use routing ID to find AAnF | Huawei, Hisilicon | not pursued |  |  |
| S3-201755 | Reauthenticaiton in AKMA | Huawei, Hisilicon | revised |  | S3-202218 |
| S3-201756 | Architecture Introduction in 5G Prose | Huawei, Hisilicon | approved |  |  |
| S3-201757 | New key issue on key distribution in prose discovery scenario | Huawei, Hisilicon | approved |  |  |
| S3-201758 | New key issue on discovery message protection | Huawei, Hisilicon | revised |  | S3-202129 |
| S3-201759 | New key issue on security of UE-to-Network Relay | Huawei, Hisilicon | revised |  | S3-202130 |
| S3-201760 | New key issue on security of one-to-one communication | Huawei, Hisilicon | noted |  |  |
| S3-201761 | Threat analysis on NAS based redirection from 5GS to EPS | Huawei, Hisilicon | revised |  | S3-202131 |
| S3-201762 | SCAS-NAS based redirection from 5GS to EPS | Huawei, Hisilicon | revised |  | S3-202132 |
| S3-201763 | threat analysis on state transation | Huawei, Hisilicon | revised |  | S3-202133 |
| S3-201764 | Add state transation to gNB SCAS | Huawei, Hisilicon | revised |  | S3-202134 |
| S3-201765 | Threat analysis on the RLF scenario in Control Plane CIoT 5GS Optimization | Huawei, Hisilicon | noted |  |  |
| S3-201766 | RRCReestablishment in Control Plane CIoT 5GS Optimization | Huawei, Hisilicon | noted |  |  |
| S3-201767 | living doc to 33.117 | Huawei, Hisilicon | revised |  | S3-202135 |
| S3-201768 | Adding AMF functionality in clause 4.2 | CATT | not pursued |  |  |
| S3-201769 | Adding details of AKMA key generation in the UE | CATT | not pursued |  |  |
| S3-201770 | Clarifying summary of threats for GVNP | China Mobile | noted |  |  |
| S3-201771 | Adding security functional requirements derived from 3GPP specifications – general SBA SBI aspects | China Mobile | noted |  |  |
| S3-201772 | Adding hardening requirements for GVNP of type 1 | China Mobile | noted |  |  |
| S3-201773 | Adding hardening requirements for GVNP of type 2 | China Mobile | noted |  |  |
| S3-201774 | Adding hardening requirements for GVNP of type 3 | China Mobile | noted |  |  |
| S3-201775 | Adding basic vulnerability testing requirements for GVNP | China Mobile | noted |  |  |
| S3-201776 | Adding vendor development and product lifecycle processes and test laboratory accreditation into clause 6 | China Mobile | noted |  |  |
| S3-201777 | Adding evaluation and SCAS instantiation into clause 7 | China Mobile | noted |  |  |
| S3-201778 | Adding test case into clause 5.2.5.5.8.5.1 | China Mobile | noted |  |  |
| S3-201779 | Adding test case into clause 5.2.5.6.6.1 | China Mobile | noted |  |  |
| S3-201780 | Adding conclusion into clause 8 | China Mobile | noted |  |  |
| S3-201781 | Addressing editor note on transformation of S-NSSAI during NSSAA | China Mobile | not pursued |  |  |
| S3-201782 | new SID on security aspects of 5G MSG | China Mobile, China Unicom, Huawei, ZTE, CATT | agreed |  |  |
| S3-201783 | Discussion on new SID for security aspects of enablers for Network Automation (eNA) for the 5G System (5GS) Phase 2 | China Mobile | noted |  |  |
| S3-201784 | new SID on security aspects of eNA phase2 | China Mobile, Nokia, Nokia Shanghai Bell, Huawei, China Unicom, CATT, ZTE | revised |  | S3-202256 |
| S3-201785 | Add abbreviations to TS 33.535 | China Mobile | merged |  | S3-202233 |
| S3-201786 | FC values allocation | China Mobile | merged |  | S3-202168 |
| S3-201787 | CR to TS 33.220-FC values allocation for AKMA | China Mobile | withdrawn |  |  |
| S3-201788 | Correction of AKMA services in section 7 | China Mobile | merged |  | S3-202246 |
| S3-201789 | Adding AKMA context description | China Mobile | agreed |  |  |
| S3-201790 | Adding details on UE AKMA capability handling | CATT | not pursued |  |  |
| S3-201791 | Clarification on AKMA Application Key derivation in the UE | CATT | not pursued |  |  |
| S3-201792 | KI on UAV authentication and authorization | Nokia, Nokia Shanghai Bell | merged |  | S3-202111 |
| S3-201793 | SID on eSBA sec cont | Nokia, Nokia Shanghai Bell | revised |  | S3-202185 |
| S3-201794 | Missing abbreviations | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201795 | Alignment and clarifications to SBA network or transport layer protocol | Nokia, Nokia Shanghai Bell | revised |  | S3-202181 |
| S3-201796 | N32 interface | Nokia, Nokia Shanghai Bell | revised |  | S3-202046 |
| S3-201797 | Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201798 | Authentication and static authorization | Nokia, Nokia Shanghai Bell | revised |  | S3-202183 |
| S3-201799 | Overview clause on communication models and related security | Nokia, Nokia Shanghai Bell | revised |  | S3-202182 |
| S3-201800 | Authorization of NF service access | Nokia, Nokia Shanghai Bell | revised |  | S3-202189 |
| S3-201801 | Integrity protection of service request | Nokia, Nokia Shanghai Bell | revised |  | S3-202186 |
| S3-201802 | Re-using of access token in indirect communication with delegated discovery | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201803 | Making NF instance id in SBA certificate profile mandatory to support | Nokia, Nokia Shanghai Bell | revised |  | S3-202184 |
| S3-201804 | Draft skeleton of TR 33.847 | CATT | approved |  |  |
| S3-201805 | Modification on AAA Server triggered Slice-Specific Authorization Revocation procedure | CATT | revised |  | S3-202245 |
| S3-201806 | pCR to TR33.847-Scope | CATT | revised |  | S3-202144 |
| S3-201807 | pCR to TR33.847-Key issue on ProSe UE-to-UE relay discovery | CATT | merged |  | S3-202129 |
| S3-201808 | pCR to TR33.847-Key issue on ProSe relays | CATT | merged |  | S3-202130 |
| S3-201809 | New SID on introducing penetration test | Huawei, Hisilicon | revised |  | S3-202234 |
| S3-201810 | Discussion paper for Rel17 SID on network slicing security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT | noted |  |  |
| S3-201811 | Rel17 SID on network slice security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT | noted |  |  |
| S3-201812 | Discussion on validity period | Huawei, HiSilicon | noted |  |  |
| S3-201813 | validity peirod of NSSAA results | Huawei, HiSilicon | not pursued |  |  |
| S3-201814 | Discussion on SN-ID in NSSAA | Huawei, HiSilicon | noted |  |  |
| S3-201815 | Serving network name in NSSAA | Huawei, HiSilicon | not pursued |  |  |
| S3-201816 | Clarification on binding of NSSAI and UE ID at AAA-S | Huawei, HiSilicon | not pursued |  |  |
| S3-201817 | Editorial changes to clause 16 | Huawei, HiSilicon | revised |  | S3-202231 |
| S3-201818 | New KI: UAV/UAV-C authentication and authorization | Huawei, HiSilicon | revised |  | S3-202111 |
| S3-201819 | New KI: UAV and UAV-C pairing security | Huawei, HiSilicon | revised |  | S3-202112 |
| S3-201820 | New KI: privacy in remote Identification | Huawei, HiSilicon | merged |  | S3-202090 |
| S3-201821 | New KI: TPAE security | Huawei, HiSilicon | revised |  | S3-202113 |
| S3-201822 | Introduction: Overview of Unmanned Aerial Systems | Huawei, HiSilicon | merged |  | S3-202096 |
| S3-201823 | A solution to UAV/UAV-C authentication and authorization | Huawei, HiSilicon | revised |  | S3-202114 |
| S3-201824 | A solution to UAV/UAV-C pairing authorization | Huawei, HiSilicon | noted |  |  |
| S3-201825 | New KI: Authentication and authorization checkpoint for PNI-NPN | Huawei, HiSilicon | noted |  |  |
| S3-201826 | Definitions and abbreviations | Huawei, HiSilicon | approved |  |  |
| S3-201827 | Scope of Prose Security | Huawei, HiSilicon | merged |  | S3-202144 |
| S3-201828 | New Key Issue on user ID privacy | Huawei, Hisilicon | noted |  |  |
| S3-201829 | New Key Issue on secure provisioning between provisioning server and UE | Huawei, Hisilicon | merged |  | S3-202093 |
| S3-201830 | New Key Issue on service provisioning | Huawei, Hisilicon | merged |  | S3-202116 |
| S3-201831 | New Key Issue on service consuming | Huawei, Hisilicon | merged |  | S3-202115 |
| S3-201832 | New Key Issue on EES capability exposure to EAS | Huawei, Hisilicon | approved |  |  |
| S3-201833 | EC: Scope for edge computing SID | Huawei, Hisilicon | approved |  |  |
| S3-201834 | Skeleton for edge computing SID | Huawei, Hisilicon | revised |  | S3-202073 |
| S3-201835 | EC: New Key issue on the transport security for the EDGE-1-9 | Huawei, Hisilicon | revised |  | S3-202074 |
| S3-201836 | 5G ProSe: New Key issue on authorization in the UE-to-UE relay scenario | Huawei, Hisilicon | revised |  | S3-202146 |
| S3-201837 | 5G ProSe: New Key issue on authorization in the UE-to-Network relay scenario | Huawei, Hisilicon | revised |  | S3-202147 |
| S3-201838 | Clarification on the UP security configuration checking | Huawei, Hisilicon | revised |  | S3-202210 |
| S3-201839 | Clarification on the UP security policy activation | Huawei, Hisilicon | not pursued |  |  |
| S3-201840 | Clarification on the test cases if the UDM and AUSF are collocated | Huawei, Hisilicon | revised |  | S3-202228 |
| S3-201841 | Change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon | revised |  | S3-202208 |
| S3-201842 | Mirror: change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon | revised |  | S3-202209 |
| S3-201843 | Update the N32-f context ID negotiation procedure | Huawei, Hisilicon | revised |  | S3-202211 |
| S3-201844 | Mirror: update the N32-f context ID negotiation procedure | Huawei, Hisilicon | revised |  | S3-202222 |
| S3-201845 | Enhancement on the client credentials assertion verification | Huawei, Hisilicon | not pursued |  |  |
| S3-201846 | Threats related to security enforcement configuration for vertical LAN | Huawei, Hisilicon | noted |  |  |
| S3-201847 | New test case on security enforcement configuration for vertical LAN | Huawei, Hisilicon | noted |  |  |
| S3-201848 | Discussion on the N32-f Protection Policy IE Data-Type Mapping issue | Huawei, Hisilicon | noted |  |  |
| S3-201849 | Reply LS on N32-f Protection Policy IE Data-Type Mapping | Huawei, Hisilicon | revised |  | S3-202224 |
| S3-201850 | Clarification on the Data-type encryption policy | Huawei, Hisilicon | not pursued |  |  |
| S3-201851 | IMS SCAS: adding the Introduction part | Huawei, Hisilicon | revised |  | S3-202075 |
| S3-201852 | IMS SCAS: Assets and threats of the IMS product classes | Huawei, Hisilicon | revised |  | S3-202149 |
| S3-201853 | IMS SCAS: adding threats related to de-registration during the authentication | Huawei, Hisilicon | approved |  |  |
| S3-201854 | IMS SCAS: new test case on de-registration | Huawei, Hisilicon | revised |  | S3-202077 |
| S3-201855 | Threats specific of high-priority algorithm selection in the P-CSCF | Huawei, Hisilicon | revised |  | S3-202078 |
| S3-201856 | IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF | Huawei, Hisilicon | revised |  | S3-202080 |
| S3-201857 | Threats specific of bidding down on security association set-up | Huawei, Hisilicon | revised |  | S3-202081 |
| S3-201858 | IMS SCAS: new test case on bidding down on security association set-up | Huawei, Hisilicon | revised |  | S3-202082 |
| S3-201859 | Threats specific of unprotected register message | Huawei, Hisilicon | approved |  |  |
| S3-201860 | IMS SCAS: new test case on unprotected register message | Huawei, Hisilicon | revised |  | S3-202083 |
| S3-201861 | Resolving the EN of solution#5 in the TR 33.809 | Huawei, Hisilicon, Lenovo | noted |  |  |
| S3-201862 | LS out on AMF reallocation via RAN | Huawei, Hisilicon | approved |  |  |
| S3-201863 | Discussion on UE privacy in GBA | Huawei, Hisilicon | noted |  |  |
| S3-201864 | Adding security requirement on UE privacy | Huawei, Hisilicon | noted |  |  |
| S3-201865 | Revocation of 5G multicast service authorization | Huawei, Hisilicon | noted |  |  |
| S3-201866 | SHA-1 deprecation in GBA | Huawei, Hisilicon | not pursued |  |  |
| S3-201867 | Clarification of direct NAS reroute | Huawei, Hisilicon | revised |  | S3-202206 |
| S3-201868 | Mirror:Clarification of direct NAS reroute | Huawei, Hisilicon | revised |  | S3-202207 |
| S3-201869 | FC values for TS 33.535 | China Mobile Com. Corporation | merged |  | S3-202169 |
| S3-201870 | Selecting the authentication method for devices that do not support 5GC NAS over WLAN access | Lenovo, Motorola Mobility | not pursued |  |  |
| S3-201871 | pCR: Conclusion of Key issue#5 | Lenovo, Motorola Mobility, Huawei | noted |  |  |
| S3-201872 | pCR: Removal of Editor’s Note in solution #15 | Lenovo, Motorola Mobility, Huawei | noted |  |  |
| S3-201873 | Clarification to SEAF | Nokia, Nokia Shanghai Bell | not pursued | S3-201493 | - |
| S3-201874 | Status of RFC 5448bis update | Ericsson | not pursued | S3-201147 |  |
| S3-201875 | Key Issue to support SNPN along with credentials owned by an entity separate from the SNPN | Lenovo, Motorola Mobility | merged |  | S3-202092 |
| S3-201876 | Key Issue on privacy protection for broadcast messages | Lenovo, Motorola Mobility | merged |  | S3-202090 |
| S3-201877 | Discussion Anonymous IDs | Ericsson LM | noted |  |  |
| S3-201878 | Clarification to 5G AV | Nokia, Nokia Shanghai Bell | revised | S3-201492 | S3-202253 |
| S3-201879 | gNB-specific adaptation to account protection by authentication attribute | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-201880 | gNB-specific adaptation to minimum number of individual accounts | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201881 | Anonymous SUCI for N5GC | Ericsson LM | not pursued |  |  |
| S3-201882 | gNB-specific adaptation to enforcement of password change after initial login | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201883 | eNB-specific adaptation to account protection by authentication attribute R15 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-201884 | eNB-specific adaptation to account protection by authentication attribute R16 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-201885 | eNB-specific adaptation to minimum number of individual accounts R15 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201886 | eNB-specific adaptation to minimum number of individual accounts R16 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201887 | eNB-specific adaptation to enforcement of password change after initial login R15 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201888 | eNB-specific adaptation to enforcement of password change after initial login R16 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-201889 | Correction to SN Addition or modification | Lenovo, Motorola Mobility | revised |  | S3-202175 |
| S3-201890 | Key Issue on User Plane Security Compromise | Lenovo, Motorola Mobility | noted |  |  |
| S3-201891 | Threat analysis of incorrect validation of client credentials assertion | Nokia, Nokia Shanghai Bell | revised |  | S3-202140 |
| S3-201892 | Test case for correct handling of client credentials assertion validation failure | Nokia, Nokia Shanghai Bell | revised |  | S3-202141 |
| S3-201893 | Key Issue on Security of Command and Control Communication | Lenovo, Motorola Mobility | revised |  | S3-202155 |
| S3-201894 | 5GFBS-RRCResumeRequest message protection | Apple, CableLabs | noted |  |  |
| S3-201895 | 5GFBS-Way forward on DoS attack caused by modifying the signature | Apple | noted |  |  |
| S3-201896 | 5GFBS-Way forward on bidding down attack | Apple | noted |  |  |
| S3-201897 | 5GFBS-Way forward on replay attack | Apple | noted |  |  |
| S3-201898 | 5GFBS-Add a NOTE in the key issue#7 on the MitM attack | Apple | noted |  |  |
| S3-201899 | 5GFBS-Addressing EN on how to prevent UE camping on the FBS for solution#11 | Apple | noted |  |  |
| S3-201900 | 5GFBS-Addressing EN on MitM attack for solution #11 | Apple | noted |  |  |
| S3-201901 | 5GFBS-Draft reply LS to RAN2 on reply LS to SA3 on FBS detection(R2-1914224/S3-200944) | Apple | withdrawn |  |  |
| S3-201902 | MEC-New key issue on DNS address modification | Apple | merged |  | S3-202119 |
| S3-201903 | MEC-New Solution on mitigating DNS request modification attack | Apple | approved |  |  |
| S3-201904 | MEC-New key issue on user consent on sharing sensitive information | Apple | merged |  | S3-202063 |
| S3-201905 | MEC-Reply LS to SA6 (S6-200947) on the protection of user’s consent | Apple | noted |  |  |
| S3-201906 | MEC-New key issue on authentication based on 3GPP credentials | Apple | merged |  | S3-202115 |
| S3-201907 | MEC-New solution on authentication based on 3GPP credentials | Apple | revised |  | S3-202151 |
| S3-201908 | ProSe- New key issue on privacy protection in authentication procedure via UE-to-network relay | Apple | merged |  | S3-202130 |
| S3-201909 | ProSe- New key issue on PC5 security against UE-to-UE relay | Apple | merged |  | S3-202158 |
| S3-201910 | ProSe- New solution on security of UE-to-UE relay | Apple | noted |  |  |
| S3-201911 | UP IP-New solution to address key issue#5 | Apple | noted |  |  |
| S3-201912 | Discussion paper on the NAS COUNTs storage | Apple | noted |  |  |
| S3-201913 | Draft LS to CT6 on the NAS COUNTs storage | Apple | noted |  |  |
| S3-201914 | Correction of the full form of the abbreviation NRF | Ericsson | agreed |  |  |
| S3-201915 | Correction of the full form of the abbreviation NRF | Ericsson | agreed |  |  |
| S3-201916 | Verification of Serving Network Name in AUSF | Ericsson | noted |  |  |
| S3-201917 | Verification of Serving Network Name in AUSF | Ericsson | not pursued |  |  |
| S3-201918 | Verification of Serving Network Name in AUSF | Ericsson | not pursued |  |  |
| S3-201919 | Aligning steering of roaming security mechanism with TS 29.509, TS 29.503 and TS 24.501 | Ericsson | merged |  | S3-202248 |
| S3-201920 | Aligning steering of roaming security mechanism with TS 29.509, TS 29.503 and TS 24.501 | Ericsson | merged |  | S3-202249 |
| S3-201921 | Draft LS on Misalignment between TS 33.501 and TS 29.573 (N32-f, references to the encrypted values) | Ericsson, NCSC | noted |  |  |
| S3-201922 | Aligning TS 33.501 with TS 29.573 regarding N32-f context ID | Ericsson | merged |  | S3-202211 |
| S3-201923 | Aligning TS 33.501 with TS 29.573 regarding N32-f context ID | Ericsson | merged |  | S3-202222 |
| S3-201924 | Token request parameters in Scenario D | Ericsson | not pursued |  |  |
| S3-201925 | New KI: Support of IMS voice and emergency services for SNPN | Ericsson | approved |  |  |
| S3-201926 | Clean-up, including removal of Editor's Notes | Ericsson | agreed |  |  |
| S3-201927 | pCR to TR 33.845: Location of ARPF functionality | Ericsson | revised |  | S3-202061 |
| S3-201928 | Location of ARPF functionality | Ericsson | not pursued |  |  |
| S3-201929 | Proposed removal of a redundant Editor’s Note from key issue #4.1 | Qualcomm Incorporated | approved |  |  |
| S3-201930 | Some evaluation of solution#2.1 in TR 33.846 | Qualcomm Incorporated | noted |  |  |
| S3-201931 | Some evaluation of solution #2.2 in TR 33.846 | Qualcomm Incorporated | revised |  | S3-202094 |
| S3-201932 | Some evaluation of solution #2.3 in TR 33.846 | Qualcomm Incorporated | noted |  |  |
| S3-201933 | Some evaluation of solution #2.5 in TR 33.846 | Qualcomm Incorporated | noted |  |  |
| S3-201934 | Resolving the editor’s notes in the solution #4.1 | Qualcomm Incorporated | approved |  |  |
| S3-201935 | Proposing a conclusion for key issue #4.1 | Qualcomm Incorporated | noted |  |  |
| S3-201936 | Adding MACS as an input parameter to the calculation of AK\* to provide freshness | Qualcomm Incorporated | noted | S3-191529 |  |
| S3-201937 | Proposed scope for TR 33.854 on UAS security | Qualcomm Incorporated | revised |  | S3-202095 |
| S3-201938 | Adding a reference to the UAS architecture from TS 23.754 | Qualcomm Incorporated | revised |  | S3-202096 |
| S3-201939 | Proposal to add a key issue on authorising UAV to use the 3GPP network | Qualcomm Incorporated | merged |  | S3-202111 |
| S3-201940 | Solving key issue #7 on moving bearer that require UP IP to EPS using the existing methods | Qualcomm Incorporated | revised |  | S3-202097 |
| S3-201941 | Enhancements to UPIP Support in 5GS | Qualcomm Incorporated | revised |  | S3-202202 |
| S3-201942 | Clarification on the unicast privacy procedures | Qualcomm Incorporated | not pursued |  |  |
| S3-201943 | Updates to Abbreviations and Corrections and clarifications to clause 4 | Qualcomm Incorporated | revised |  | S3-202203 |
| S3-201944 | Corrections to AKMA key lifetimes | Qualcomm Incorporated | revised |  | S3-202204 |
| S3-201945 | Corrections and clarifications to AKMA procedures | Qualcomm Incorporated | revised |  | S3-202205 |
| S3-201946 | Assignment of FC values for key derivations | Qualcomm Incorporated | revised |  | S3-202168 |
| S3-201947 | Assigning FC values for AKMA TS | Qualcomm Incorporated | revised |  | S3-202169 |
| S3-201948 | Specification of value of SUPI for key derivations | Qualcomm Incorporated | agreed |  |  |
| S3-201949 | Key Issue on PC5 link establishment for UE-to-network relay | Qualcomm Incorporated | merged |  | S3-202130 |
| S3-201950 | Reply LS on Security Requirements for Sidelink/PC5 Relays | Qualcomm Incorporated | noted |  |  |
| S3-201951 | Key Issue on transport security for MBS flows | Qualcomm Incorporated | merged |  | S3-202121 |
| S3-201952 | Conclusion of Key Issue #3 | Qualcomm Incorporated | noted |  |  |
| S3-201953 | Reply LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | Qualcomm Incorporated | noted |  |  |
| S3-201954 | Reply LS on 5G SoR integrity protection mechanism | Qualcomm Incorporated | noted |  |  |
| S3-201955 | Reply LS on 256 bit algorithm candidates | Qualcomm Incorporated | noted |  |  |
| S3-201956 | UPIP: Update to solution #11 (UP IP over eUTRA connected to EPS) | Ericsson | revised |  | S3-202086 |
| S3-201957 | UPIP: Update to solution #12, resolving editor note | Ericsson | approved |  |  |
| S3-201958 | [Draft] Reply LS on key management procedure in SEAL | Samsung | merged |  | S3-202177 |
| S3-201959 | [SEAL] CR for TS 33.434 cleanup | Samsung | revised |  | S3-202170 |
| S3-201960 | Key issue on key management in 5G ProSe | Samsung | revised |  | S3-202064 |
| S3-201961 | Key management in 5G ProSe | Samsung | revised |  | S3-202065 |
| S3-201962 | Key issue on handling security policies in ProSe relay communication | Samsung | noted |  |  |
| S3-201963 | Handling security policies in ProSe relay communication | Samsung | noted |  |  |
| S3-201964 | Key issue on secure data transfer between UE and 5GDDNMF in ProSe | Samsung | revised |  | S3-202066 |
| S3-201965 | Secure data transfer between UE and 5GDDNMF in ProSe | Samsung | revised |  | S3-202067 |
| S3-201966 | [AKMA] Service Update to clause 6.1, 6.2 and 7.1 | Samsung | merged |  | S3-202246 |
| S3-201967 | [AKMA] Deletion of service provided by AUSF in clause 7.2 | Samsung | merged |  | S3-202246 |
| S3-201968 | Support for context deregistration option in AKMA | Samsung | not pursued |  |  |
| S3-201969 | Key issue on authentication/authorization of Edge Enabler Client | Samsung | merged |  | S3-202115 |
| S3-201970 | Authentication/authorization framework for Edge Enabler Client and server | Samsung | revised |  | S3-202062 |
| S3-201971 | Key issue on user's consent for exposure of information to Edge Application | Samsung | revised |  | S3-202063 |
| S3-201972 | User's consent for exposure of information to Edge Application | Samsung | noted |  |  |
| S3-201973 | Key issue on UP keys for Disaggregated gNB architecture | Samsung | noted |  |  |
| S3-201974 | Reply LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | Samsung, Qualcomm Incorporated, Huawei, Hisilicon | noted |  |  |
| S3-201975 | Alignment of SoR procedures to Stage-3 | Samsung | merged |  | S3-202248 |
| S3-201976 | Alignment of SoR procedures to Stage-3 | Samsung | merged |  | S3-202249 |
| S3-201977 | Allocation of FC values for KIAB derivation function | Samsung | revised |  | S3-202172 |
| S3-201978 | Allocation of FC values for IAB key derivation function | Samsung | merged |  | S3-202169 |
| S3-201979 | [5GFBS] Resume Cause protection | Samsung | revised |  | S3-202018 |
| S3-201980 | Removal of response from gNB to the AMF after inter-gNB-CU HO | Samsung | not pursued |  |  |
| S3-201981 | Updates on Rel-16 IAB Conclusions | Samsung | approved |  |  |
| S3-201982 | Clean-up of IAB TR 33.824 | Samsung | approved |  |  |
| S3-201983 | Roaming case for indirect communication | Ericsson | withdrawn |  |  |
| S3-201984 | [DRAFT]  Reply-LS on 256-bit algorithm candidates | Ericsson | noted |  |  |
| S3-201985 | Reply-LS on user consent requirements for analytics | Nokia Germany | noted |  |  |
| S3-201986 | eNPN Proposed TR Assumptions | Ericsson | revised |  | S3-202091 |
| S3-201987 | eNPN New KI: Credentials owned by an external entity | Ericsson | revised |  | S3-202092 |
| S3-201988 | eNPN New KI: Initial Access | Ericsson | noted |  |  |
| S3-201989 | eNPN New KI: Provisioning | Ericsson | revised |  | S3-202093 |
| S3-201990 | eNPN [DRAFT] LS on AAA based solutions for credentials owned by an entity separate from the SNPN | Ericsson | noted |  |  |
| S3-201991 | CIoT: Converting remaining ENs into Notes | Ericsson | agreed |  |  |
| S3-201992 | CIoT: Converting TBDs to notes | Ericsson | agreed |  |  |
| S3-201993 | CIoT: Adding missing references | Ericsson | agreed |  |  |
| S3-201994 | eNPN TR scope | Ericsson | noted |  |  |
| S3-201995 | eNPN TR Definitions | Ericsson | noted |  |  |
| S3-201996 | SCAS SCP: Requirements and test cases of SBA/SBI aspects | Nokia, Nokia Shanghai Bell | revised |  | S3-202138 |
| S3-201997 | Critical Assets of SCP | Nokia, Nokia Shanghai Bell | revised |  | S3-202139 |
| S3-201998 | Analysis of threats over SCP internal network interfaces | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-201999 | SCAS SCP: Requirement and Test Case for Protection over Internal Interfaces | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202000 | Threat analysis of tokens forwarded by the SCP | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202001 | pCR to TR33.853 - Updates to solution 14 | VODAFONE Group Plc | revised |  | S3-202258 |
| S3-202002 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | agreed |  |  |
| S3-202003 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | agreed |  |  |
| S3-202004 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | agreed |  |  |
| S3-202005 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | agreed |  |  |
| S3-202006 | SCAS SCP: Token forwarded to the current pNF | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202007 | SCAS SCP: Correct Token forwarded to the pNF | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202008 | pCR to TR33.853 - Addition of solution addressing KI#8 | VODAFONE Group Plc | revised |  | S3-202257 |
| S3-202009 | DSnF improvements in time synchronization | Philips International B.V. | revised |  | S3-202108 |
| S3-202010 | SCAS VNP: Threats on VNF-VNFM Interface | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202011 | SCAS VNP: Security requirements on the interface between VNF and VNFM | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202012 | SCAS VNP: Software Tampering | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202013 | SCAS VNP: VM Escape and Hypervisor Escape | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202014 | SCAS VNP: Secure Execution Environment | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202015 | SCAS VNP: DoS Attack via Changing Virtualized Resource | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202016 | 5GFBS: Detecting FBS based on UE Positioning Measurements | Nokia, Nokia Shanghai Bell | revised |  | S3-202142 |
| S3-202017 | eNPN Proposed TR Introduction | Ericsson | revised |  | S3-202089 |
| S3-202018 | [5GFBS] Resume Cause protection | Samsung | noted | S3-201979 |  |
| S3-202019 | pCR to TR 33.846: editorial corrections for solution #2.4 | THALES | revised |  | S3-202070 |
| S3-202020 | pCR to TR 33.846: evaluation of solution #2.4 | THALES | approved |  |  |
| S3-202021 | ProSe: KI for Provisioning of ProSe parameters | Ericsson | merged |  | S3-202066 |
| S3-202022 | ProSe: KI for Open Discovery | Ericsson | merged |  | S3-202129 |
| S3-202023 | ProSe: KI for Restricted discovery | Ericsson | merged |  | S3-202129 |
| S3-202024 | ProSe: KI for UE-to-network Relay | Ericsson | merged |  | S3-202147 |
| S3-202025 | ProSe: KI for UE-to-UE Relay | Ericsson | merged |  | S3-202146 |
| S3-202026 | Cryptographic CRC in MAC to avoid MitM relay nodes | Philips International B.V. | revised |  | S3-202109 |
| S3-202027 | Living document of Service Based Interfaces for GBA | Ericsson | noted |  |  |
| S3-202028 | Living document of Service Based Interfaces for GBA  Push | Ericsson | noted |  |  |
| S3-202029 | pCR to living document for TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | revised |  | S3-202069 |
| S3-202030 | pCR to living document for TS 33.223: SBA support for Zpn interface | Ericsson | revised |  | S3-202071 |
| S3-202031 | Discussion of HSS role in supporting SBA for GBA | Ericsson | noted |  |  |
| S3-202032 | Proposal for a new study on AMF re-allocation security | Ericsson | noted |  |  |
| S3-202033 | New study on the security of AMF re-allocation | Ericsson | revised |  | S3-202252 |
| S3-202034 | Handling of counter wrap around in UDM | Ericsson | not pursued |  |  |
| S3-202035 | Storage of KAUSF in the UE and AUSF | Ericsson | not pursued |  |  |
| S3-202036 | AKMA Anchor Function selection clause | Ericsson | not pursued |  |  |
| S3-202037 | AKMA SBA interface clarifications | Ericsson | revised |  | S3-202246 |
| S3-202038 | AKMA reference point architecture specification | Ericsson | not pursued |  |  |
| S3-202039 | Several clarifications and editorials | Ericsson | revised |  | S3-202247 |
| S3-202040 | Discussion of the AKMA reference point interface names | Ericsson | noted |  |  |
| S3-202041 | LS on Reference point interface names for AKMA | Ericsson | revised |  | S3-202250 |
| S3-202042 | Discussion paper on removal of invalid authentication result in UDM | Ericsson | noted |  |  |
| S3-202043 | LS on Removal of invalid authentication result in UDM | Ericsson | noted |  |  |
| S3-202044 | Authentication Result Confirmation | Ericsson | not pursued |  |  |
| S3-202045 | pCR to TR33.853 - Update to section 4 | VODAFONE Group Plc | approved |  |  |
| S3-202046 | N32 interface | Nokia, Nokia Shanghai Bell | revised | S3-201796 | S3-202180 |
| S3-202047 | pCR to 55.853 - Addition of conclusions | VODAFONE Group Plc | noted |  |  |
| S3-202048 | Draft LS Response on Clarification on AAA-Server address | Ericsson | noted |  |  |
| S3-202049 | Clarifications to SoR integrity protection mechanism | Orange | revised |  | S3-202248 |
| S3-202050 | Clarifications to SoR integrity protection mechanism | Orange | revised |  | S3-202249 |
| S3-202051 | Completion of WT-456 and WT-470 | BBF | noted |  |  |
| S3-202052 | LS from RIFS to SA on 4G authentication improvement | GSMA | replied to |  |  |
| S3-202053 | LS on initiation of new work item Q.Pro-Trust “Signalling procedures and protocols for enabling interconnection between trustable network entities in support of existing and emerging networks” | ITU-T SG11 | noted |  |  |
| S3-202054 | LS on initiation of new work item TR-USSD “Low resource requirement, quantum resistant, encryption of USSD messages for use in Financial services” | ITU-T SG11 | noted |  |  |
| S3-202055 | N32-f Protection Policy IE Data-Type Mapping | GSMA | replied to |  |  |
| S3-202056 | N32-f Error Responses - Mapping | GSMA | noted |  |  |
| S3-202057 | LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | C1-200967 | postponed |  |  |
| S3-202058 | Process for SA3#100-e meeting | SA WG3 Chair | revised | S3-201550 | S3-202163 |
| S3-202059 | New Solution for KI3 - Encrypted transfer of LTK out of UDR | KPN N.V. | approved | S3-201552 |  |
| S3-202060 | New Solution for KI2 - Encrypted storage of LTK in UDR | KPN N.V. | approved | S3-201551 |  |
| S3-202061 | pCR to TR 33.845: Location of ARPF functionality | Ericsson | approved | S3-201927 |  |
| S3-202062 | Authentication/authorization framework for Edge Enabler Client and server | Samsung | approved | S3-201970 |  |
| S3-202063 | Key issue on user's consent for exposure of information to Edge Application | Samsung, China Telecommunications, Apple | approved | S3-201971 |  |
| S3-202064 | Key issue on key management in 5G ProSe | Samsung | approved | S3-201960 |  |
| S3-202065 | Key management in 5G ProSe | Samsung | approved | S3-201961 |  |
| S3-202066 | Key issue on secure data transfer between UE and 5GDDNMF in ProSe | Samsung, Ericsson | approved | S3-201964 |  |
| S3-202067 | Secure data transfer between UE and 5GDDNMF in ProSe | Samsung | approved | S3-201965 |  |
| S3-202068 | Draft TR 33857 v010 Study on enhanced security support for Non-Public Networks (NPN) | Ericsson Telecomunicazioni SpA | approved |  |  |
| S3-202069 | Living document for TS 33.220: SBA support for Zh and Zn interfaces | Ericsson, Huawei, Hisilicon | approved | S3-202029 |  |
| S3-202070 | pCR to TR 33.846: editorial corrections for solution #2.4 | THALES | approved | S3-202019 |  |
| S3-202071 | Living document for TS 33.223: SBA support for Zpn interface | Ericsson, Huawei, HiSilicon | approved | S3-202030 |  |
| S3-202072 | Draft TR 33.846 v0.7.0 Study on authentication enhancements in the 5G System (5GS) | Ericsson Japan K.K. | approved |  |  |
| S3-202073 | Skeleton for edge computing SID | Huawei, Hisilicon | approved | S3-201834 |  |
| S3-202074 | EC: New Key issue on the transport security for the EDGE-1-9 | Huawei, Hisilicon | approved | S3-201835 |  |
| S3-202075 | IMS SCAS: adding the Introduction part | Huawei, Hisilicon | approved | S3-201851 |  |
| S3-202076 | Certificate-Based Encryption Solution | MITRE Corporation, AT&T, InterDigital, DoD, Apple, CISA/ECD, III, CableLabs | approved | S3-201598 |  |
| S3-202077 | IMS SCAS: new test case on de-registration | Huawei, Hisilicon | approved | S3-201854 |  |
| S3-202078 | Threats specific of high-priority algorithm selection in the P-CSCF | Huawei, Hisilicon | approved | S3-201855 |  |
| S3-202079 | IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF | Huawei, Hisilicon | withdrawn | S3-201856 |  |
| S3-202080 | IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF | Huawei, Hisilicon | revised | S3-201856 | S3-202156 |
| S3-202081 | Threats specific of bidding down on security association set-up | Huawei, Hisilicon | revised | S3-201857 | S3-202154 |
| S3-202082 | IMS SCAS: new test case on bidding down on security association set-up | Huawei, Hisilicon | approved | S3-201858 |  |
| S3-202083 | IMS SCAS: new test case on unprotected register message | Huawei, Hisilicon | approved | S3-201860 |  |
| S3-202084 | Draft TS 33.226 v0.2.0 Security assurance for IP Multimedia Subsystem (IMS) | Huawei, Hisilicon | approved |  |  |
| S3-202085 | Draft TR 33.839 Study on security aspects of enhancement of support for edge computing in 5G Core (5GC) | Huawei, Hisilicon | approved |  |  |
| S3-202086 | UPIP: Update to solution #11 (UP IP over eUTRA connected to EPS) | Ericsson | approved | S3-201956 |  |
| S3-202087 | Reply LS on security procedures for Edge Applications | Huawei, Hisilicon | approved |  |  |
| S3-202088 | New Key Issue for TR 33.854 – UAV and UAV-C Location Information veracity | InterDigital, Europe, Ltd., Futurewei Technologies | approved | S3-201593 |  |
| S3-202089 | eNPN Proposed TR Introduction | Ericsson | approved | S3-202017 |  |
| S3-202090 | New Key Issue for TR 33.854 – Privacy protection of UAS identities | InterDigital, Europe, Ltd., Huawei, HiSilicon, Lenovo, Motorola Mobility | approved | S3-201599 |  |
| S3-202091 | eNPN Proposed TR Assumptions | Ericsson, Nokia, Nokia Shanghai Bell | approved | S3-201986 |  |
| S3-202092 | eNPN New KI: Credentials owned by an external entity | Ericsson, Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility, Huawei, Hisilicon, Intel, Qualcomm Incorporated | approved | S3-201987 |  |
| S3-202093 | eNPN New KI: Provisioning | Ericsson, Huawei, Hisilicon | approved | S3-201989 |  |
| S3-202094 | Some evaluation of solution #2.2 in TR 33.846 | Qualcomm Incorporated | approved | S3-201931 |  |
| S3-202095 | Proposed scope for TR 33.854 on UAS security | Qualcomm Incorporated | approved | S3-201937 |  |
| S3-202096 | Adding a reference to the UAS architecture from TS 23.754 | Qualcomm Incorporated, Huawei, Hsilicon | approved | S3-201938 |  |
| S3-202097 | Solving key issue #7 on moving bearer that require UP IP to EPS using the existing methods | Qualcomm Incorporated | approved | S3-201940 |  |
| S3-202098 | SQN protection during re-synchronisation procedure in AKA | Nokia, Nokia Shanghai Bell | approved | S3-201614 |  |
| S3-202099 | SQNms protection by concealment | Nokia, Nokia Shanghai Bell | approved | S3-201613 |  |
| S3-202100 | Key Issue on Linking of UEs by SUCI replay attack | Nokia, Nokia Shanghai Bell | approved | S3-201615 |  |
| S3-202101 | TR\_33.851\_IIoT\_Sec skeleton | Nokia, Nokia Shanghai Bell | approved | S3-201583 |  |
| S3-202102 | Scope of study | Nokia, Nokia Shanghai Bell | approved | S3-201584 |  |
| S3-202103 | References | Nokia, Nokia Shanghai Bell | approved | S3-201585 |  |
| S3-202104 | Abbreviations | Nokia, Nokia Shanghai Bell | withdrawn | S3-201586 |  |
| S3-202105 | Architectural considerations | Nokia, Nokia Shanghai Bell | approved | S3-201587 |  |
| S3-202106 | Multiple TSN working domains | Nokia, Nokia Shanghai Bell | approved | S3-201590 |  |
| S3-202107 | TR\_33.851\_IIoT\_Sec | Nokia | approved |  |  |
| S3-202108 | DSnF improvements in time synchronization | Philips International B.V. | approved | S3-202009 |  |
| S3-202109 | Cryptographic CRC in MAC to avoid MitM relay nodes | Philips International B.V. | approved | S3-202026 |  |
| S3-202110 | TUAK AKA authenticaiton | China Telecommunications | approved | S3-201627 |  |
| S3-202111 | New KI: UAV/UAV-C authentication and authorization | Huawei, HiSilicon, InterDigital, Qualcomm, Nokia, Nokia Shanghai Bell | approved | S3-201818 |  |
| S3-202112 | A new key issue on pairing authorization for UAV and UAVC | Huawei, HiSilicon, InterDigital | approved | S3-201819 |  |
| S3-202113 | A new key issue on TPAE security | Huawei, HiSilicon | approved | S3-201821 |  |
| S3-202114 | A new solution to UAS authentication and authorization | Huawei, HiSilicon, InterDigital | approved | S3-201823 |  |
| S3-202115 | Key Issue: Security Requirements for EDGE-1 Interface | Intel Deutschland GmbH | approved | S3-201701 |  |
| S3-202116 | Key Issue: Security Requirements for EDGE-4 Interface | Intel Deutschland GmbH | approved | S3-201703 |  |
| S3-202117 | Key Issue: Security Requirements for EDGE-6 Interface | Intel Deutschland GmbH | approved | S3-201706 |  |
| S3-202118 | New key issue on security for uplink time synchronization | ZTE Corporation,Nokia, Nokia Shanghai Bell | approved | S3-201694 |  |
| S3-202119 | New KI for EAS discovery | Huawei, Hisilicon, Apple | approved | S3-201749 |  |
| S3-202120 | New Key Issue on Security of authentication and authorization for Multicast communication services | Huawei, Hisilicon | approved | S3-201719 |  |
| S3-202121 | New Key Issue on security protection of MBS traffic | HuaWei Technologies Co., Ltd | approved | S3-201720 |  |
| S3-202122 | Scope for TR on MBS security | Huawei, Hisilicon | withdrawn | S3-201721 |  |
| S3-202123 | Scope for TR on MBS security | Huawei, Hisilicon | approved | S3-201721 |  |
| S3-202124 | Proposed Skeleton for MBS SID | Huawei, Hisilicon | withdrawn | S3-201722 |  |
| S3-202125 | New Key Issue on key distribution | Huawei, Hisilicon | approved | S3-201723 |  |
| S3-202126 | New Key Issue on protection of UE-UE communication | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | approved | S3-201724 |  |
| S3-202127 | New Key Issue on protection of information in remote identification and between UAV/UAVC and UTM/USS | Huawei, Hisilicon, Interdigital, Futurewei | approved | S3-201726 |  |
| S3-202128 | New key issue on authentication and authorization for UE onboarding between UE and SNPN | Huawei, Hisilicon,Ericsson, Nokia, Nokia Shanghai Bell, Intel, Qualcomm Incorporated | noted | S3-201729 |  |
| S3-202129 | New key issue on discovery message protection | Huawei, Hisilicon, LG Electronics, Ericsson, CATT, Interdigital | approved | S3-201758 |  |
| S3-202130 | New key issue on security of UE-to-Network Relay | Huawei, Hisilicon, Interdigital, Qualcomm Incorporated,CATT, Ericsson,Apple | approved | S3-201759 |  |
| S3-202131 | Threat analysis on NAS based redirection from 5GS to EPS | Huawei, Hisilicon | approved | S3-201761 |  |
| S3-202132 | SCAS-NAS based redirection from 5GS to EPS | Huawei, Hisilicon | approved | S3-201762 |  |
| S3-202133 | threat analysis on state transation | Huawei, Hisilicon | approved | S3-201763 |  |
| S3-202134 | Add state transation to gNB SCAS | Huawei, Hisilicon | approved | S3-201764 |  |
| S3-202135 | living doc to 33.117 | Huawei, Hisilicon, Interdigital, Nokia, Nokia Shanghai Bell | approved | S3-201767 |  |
| S3-202136 | Updating IPUPS of UPF to Annex L of TR 33.926 | ZTE Corporation | approved |  |  |
| S3-202137 | Draft TR 33.850 | Huawei, Hisilicon | approved |  |  |
| S3-202138 | SCAS SCP: Requirements and test cases of SBA/SBI aspects | Nokia, Nokia Shanghai Bell | approved | S3-201996 |  |
| S3-202139 | Critical Assets of SCP | Nokia, Nokia Shanghai Bell | approved | S3-201997 |  |
| S3-202140 | Threat analysis of incorrect validation of client credentials assertion | Nokia, Nokia Shanghai Bell | approved | S3-201891 |  |
| S3-202141 | Test case for correct handling of client credentials assertion validation failure | Nokia, Nokia Shanghai Bell | approved | S3-201892 |  |
| S3-202142 | 5GFBS: Detecting FBS based on UE Positioning Measurements | Nokia, Nokia Shanghai Bell | approved | S3-202016 |  |
| S3-202143 | Draft TS 33.522 v0.2.0 5G SCAS for SCP | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-202144 | pCR to TR33.847-Scope | CATT, Huawei, HiSilicon | approved | S3-201806 |  |
| S3-202145 | Draft TR 33.847 | CATT | approved |  |  |
| S3-202146 | 5G ProSe: New Key issue on authorization in the UE-to-UE relay scenario | Huawei, Hisilicon | approved | S3-201836 |  |
| S3-202147 | 5G ProSe: New Key issue on authorization in the UE-to-Network relay scenario | Huawei, Hisilicon | approved | S3-201837 |  |
| S3-202148 | Living CR to TR 33.926 | Huawei, Hisilicon | approved |  |  |
| S3-202149 | IMS SCAS: living document for assets and threats of the IMS product classes | Huawei, Hisilicon | approved | S3-201852 |  |
| S3-202150 | draft TR for 5GFBS | Apple Computer Trading Co. Ltd | approved |  |  |
| S3-202151 | MEC-New solution on authentication based on 3GPP credentials | Apple | approved | S3-201907 |  |
| S3-202152 | Agenda | SA WG3 Chair | approved | S3-201500 |  |
| S3-202153 | Threats specific of bidding down on security association set-up | Huawei, Hisilicon | withdrawn | S3-201857 |  |
| S3-202154 | Threats specific of bidding down on security association set-up | Huawei, Hisilicon | approved | S3-202081 |  |
| S3-202155 | Key Issue on Security of Command and Control Communication | Lenovo, Motorola Mobility, Huawei, HiSilicon, Interdigital | approved | S3-201893 |  |
| S3-202156 | IMS SCAS: new test case on high-priority algorithm selection in the P-CSCF | Huawei, Hisilicon | approved | S3-202080 |  |
| S3-202157 | New Key Issue for TR 33.847 – submission of draft\_S3-201619-r5 that is a merger of S3-201619, S3-201661, and S3-201909 | InterDigital, Inc. | withdrawn | S3-201619 |  |
| S3-202158 | New Key Issue for TR 33.847 – submission of draft\_S3-201619-r5 that is a merger of S3-201619, S3-201661, and S3-201909 | InterDigital, Inc., LG Electronics, Apple | approved | S3-201619 |  |
| S3-202159 | Draft TR 33.854 | Qualcomm | approved | - | - |
| S3-202160 | LS on Misalignments on HTTP message format over N32-f | C4-204409 | postponed | - | - |
| S3-202161 | Add certificate based solution for NPN as a new Solution | MITRE Corporation | approved | S3-201592 | - |
| S3-202162 | Access Token Signature using MAC with symmetric key | Mavenir, Deutsche Telekom | agreed | - | - |
| S3-202163 | Process for SA3#100-e meeting | SA WG3 Chair | noted | S3-202058 | - |
| S3-202164 | Error handling by the receiving NF | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-202165 | Error handling by the receiving NF | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-202166 | Static authorization details | Mavenir,Deutsche Telekom,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-202167 | N32 interface | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-202168 | Assignment of FC values for key derivations | Qualcomm Incorporated, China Mobile | agreed | S3-201946 |  |
| S3-202169 | Assigning FC values for AKMA TS | Qualcomm Incorporated, China Mobile, Samsung | agreed | S3-201947 |  |
| S3-202170 | [SEAL] CR for TS 33.434 cleanup | Samsung | agreed | S3-201959 |  |
| S3-202171 | FS\_eSBA\_SEC | Nokia, Nokia Shanghai Bell, Deutsche Telecom, Verizon, Mavenir, CableLabs, Mavenir, Docomo, China Mobile, Huawei, HiSilicon | noted |  |  |
| S3-202172 | Allocation of FC values for KIAB derivation function | Samsung | agreed | S3-201977 |  |
| S3-202173 | Reply LS to GSMA RIFS on 4G authentication improvement | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-202174 | Static authorization details | Mavenir,Deutsche Telekom,Nokia, Nokia Shanghai Bell | agreed | S3-201611 |  |
| S3-202175 | Correction to SN Addition or modification | Lenovo, Motorola Mobility | agreed | S3-201889 |  |
| S3-202176 | [33.180] MCData message store security | Motorola Solutions Danmark A/S | agreed | S3-201648 |  |
| S3-202177 | Reply LS on Key Management procedure in SEAL | Motorola Solutions Danmark A/S | approved | S3-201654 |  |
| S3-202178 | [33.434] KM Clarifications | Motorola Solutions Danmark A/S | agreed | S3-201650 |  |
| S3-202179 | New WID on mission critical security enhancements phase 2 | Motorola Solutions Danmark A/S | agreed | S3-201652 |  |
| S3-202180 | N32 interface | Nokia, Nokia Shanghai Bell | agreed | S3-202046 |  |
| S3-202181 | Alignment and clarifications to SBA network or transport layer protocol | Nokia, Nokia Shanghai Bell | agreed | S3-201795 |  |
| S3-202182 | Overview clause on communication models and related security | Nokia, Nokia Shanghai Bell | agreed | S3-201799 |  |
| S3-202183 | Authentication and static authorization | Nokia, Nokia Shanghai Bell | agreed | S3-201798 |  |
| S3-202184 | Making NF instance id in SBA certificate profile mandatory to support | Nokia, Nokia Shanghai Bell | agreed | S3-201803 |  |
| S3-202185 | SID on eSBA sec cont | Nokia, Nokia Shanghai Bell | noted | S3-201793 |  |
| S3-202186 | Integrity protection of service request | Nokia, Nokia Shanghai Bell | not pursued | S3-201801 |  |
| S3-202187 | SA3 meeting calendar | Ericsson LM | noted |  |  |
| S3-202188 | Draft agenda for SA3#100bis-e meeting | Ericsson LM | noted |  |  |
| S3-202189 | Authorization of NF service access | Nokia, Nokia Shanghai Bell | revised | S3-201800 | S3-202259 |
| S3-202190 | Reply to Reply PAP/CHAP and other point-to-point protocols usage in 5GS | NTT DOCOMO INC. | approved |  |  |
| S3-202191 | Reply LS on 256 bit algorithm candidates | NTT DOCOMO INC. | approved |  |  |
| S3-202192 | Reply LS on Observations on ZUC-256 | NTT DOCOMO INC. | approved |  |  |
| S3-202193 | resolution of editor's note in clause 10.2.2.2 | NTT DOCOMO | agreed | S3-201575 |  |
| S3-202194 | NF Service Producer authorization | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-202195 | NF Service Producer authorization | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-202196 | resolution of editor's note in clause 10.2.2.2 - R16 mirror | NTT DOCOMO | agreed | S3-201576 |  |
| S3-202197 | OAuth 2.0 based authorization | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-202198 | OAuth 2.0 based authorization | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-202199 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | agreed | S3-201649 |  |
| S3-202200 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | agreed | S3-201651 |  |
| S3-202201 | CR to delete uncompressed mode text in profile B | Nokia, Nokia Shanghai Bell, Verizon | agreed | S3-201655 |  |
| S3-202202 | Enhancements to UPIP Support in 5GS | Qualcomm Incorporated | agreed | S3-201941 |  |
| S3-202203 | Updates to Abbreviations and Corrections and clarifications to clause 4 | Qualcomm Incorporated | agreed | S3-201943 |  |
| S3-202204 | Corrections to AKMA key lifetimes | Qualcomm Incorporated | agreed | S3-201944 |  |
| S3-202205 | Corrections and clarifications to AKMA procedures | Qualcomm Incorporated | agreed | S3-201945 |  |
| S3-202206 | Clarification of direct NAS reroute | Huawei, Hisilicon | agreed | S3-201867 |  |
| S3-202207 | Mirror:Clarification of direct NAS reroute | Huawei, Hisilicon | agreed | S3-201868 |  |
| S3-202208 | Change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | agreed | S3-201841 |  |
| S3-202209 | Mirror: change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | agreed | S3-201842 |  |
| S3-202210 | Clarification on the UP security configuration checking | Huawei, Hisilicon | agreed | S3-201838 |  |
| S3-202211 | Update the N32-f context ID negotiation procedure | Huawei, Hisilicon, Ericsson | agreed | S3-201843 |  |
| S3-202212 | Editorial changes about eV2X | Huawei, Hisilicon, ZTE Corporation | agreed | S3-201710 |  |
| S3-202213 | Clarification on policy handling | Huawei, Hisilicon | agreed | S3-201712 |  |
| S3-202214 | Clarification on algorithm selection and key derivation | Huawei, Hisilicon | agreed | S3-201713 |  |
| S3-202215 | Clarification on processing null-algorithms | Huawei, Hisilicon | agreed | S3-201714 |  |
| S3-202216 | Propose to complete security lagorithm selection for UP | Huawei, Hisilicon | agreed | S3-201716 |  |
| S3-202217 | Clarifications on error case in AKMA process | Huawei, Hisilicon | agreed | S3-201717 |  |
| S3-202218 | Reauthenticaiton in AKMA | Huawei, Hisilicon | agreed | S3-201755 |  |
| S3-202219 | Relay LS to NESAS Official Launch | Huawei, Hisilicon | approved |  |  |
| S3-202220 | LS for penetration test inclusion of SCAS | Huawei, Hisilicon | revised |  | S3-202244 |
| S3-202221 | New WID on Security Assurance Specification for NSSAAF | Huawei, Hisilicon | agreed | S3-201741 |  |
| S3-202222 | Mirror: update the N32-f context ID negotiation procedure | Huawei, Hisilicon, Ericsson | agreed | S3-201844 |  |
| S3-202223 | Updates to solution #20 - resolving EN in 6.20.2.2.1 | CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | approved | S3-201635 |  |
| S3-202224 | Reply LS on N32-f Protection Policy IE Data-Type Mapping | Huawei, Hisilicon | approved | S3-201849 |  |
| S3-202225 | Updates to solution #20 - resolving ENs in 6.20.2.3.1 | CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | approved | S3-201636 |  |
| S3-202226 | Updates to solution #20 - resolving ENs in 6.20.2.4 | CableLabs, Apple, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | approved | S3-201637 |  |
| S3-202227 | Updates to solution #20 - resolving ENs in 6.20.2.5.1 | CableLabs, Apple, Intel, Deutsche Telekom AG, InterDigital Communications, Rogers Communications, Charter Communications | approved | S3-201638 |  |
| S3-202228 | Clarification on the test cases if the UDM and AUSF are collocated | Huawei, Hisilicon | agreed | S3-201840 |  |
| S3-202229 | Skeleton for TR 33.840 | China Telecommunications | revised | S3-201705 | S3-202230 |
| S3-202230 | Skeleton for TR 33.840 | China Telecommunications | approved | S3-202229 |  |
| S3-202231 | Corrections to clause 16 | Huawei, HiSilicon | agreed | S3-201817 |  |
| S3-202232 | Update the clause 5.3.3.2.2 | ZTE Corporation | agreed | S3-201692 |  |
| S3-202233 | Add three Abbreviations to clause 3.3 | ZTE Corporation | agreed | S3-201680 |  |
| S3-202234 | New SID on introducing penetration test | Huawei, Hisilicon | noted | S3-201809 |  |
| S3-202235 | New Study on Enhancement of Authorization of API Invocation | Huawei, Hisilicon, China Unicom, CAICT, CATT | noted | S3-201736 |  |
| S3-202236 | SUPI Type Clarification in R16 | Huawei, Hisilicon | not pursued | S3-201733 |  |
| S3-202237 | SUPI Type Clarification in R15 | Huawei, Hisilicon | not pursued | S3-201734 |  |
| S3-202238 | New key issue on authentication and authorization for UE onboarding between UE and SNPN | Huawei, Hisilicon | noted | - |  |
| S3-202239 | Correction to Nnssaaf\_NSSAA services service | Huawei, Hisilicon | not pursued | S3-201746 |  |
| S3-202240 | Correction to Nnssaaf\_NSSAA services service | Huawei, Hisilicon | withdrawn | S3-201746 |  |
| S3-202241 | Secondary authentication revocation | Huawei, Hisilicon | not pursued | S3-201747 |  |
| S3-202242 | Secondary authentication revocation | Huawei, Hisilicon | not pursued | S3-201748 |  |
| S3-202243 | Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R16 | ZTE Corporation | agreed | S3-201679 |  |
| S3-202244 | LS for penetration test inclusion of SCAS | Huawei, Hisilicon | approved | S3-202220 |  |
| S3-202245 | Modification on AAA Server triggered Slice-Specific Authorization Revocation procedure | CATT | agreed | S3-201805 |  |
| S3-202246 | AKMA SBA interface clarifications | Ericsson, ZTE, China Mobile, Samsung | agreed | S3-202037 |  |
| S3-202247 | Several clarifications and editorials | Ericsson | agreed | S3-202039 |  |
| S3-202248 | Clarifications to SoR integrity protection mechanism | Orange, Ericsson, Samsung | agreed | S3-202049 |  |
| S3-202249 | Clarifications to SoR integrity protection mechanism | Orange, Ericsson, Samsung | agreed | S3-202050 |  |
| S3-202250 | LS on Reference point interface names for AKMA | Ericsson | approved | S3-202041 |  |
| S3-202251 | Reply LS on LS on 5G SoR integrity protection mechanism | Orange | approved |  |  |
| S3-202252 | New study on the security of AMF re-allocation | Ericsson | agreed | S3-202033 |  |
| S3-202253 | Clarification to 5G AV | Nokia, Nokia Shanghai Bell | agreed | S3-201878 |  |
| S3-202254 | Clarification to 5G AV | Nokia,Nokia Shanghai Bell | agreed |  |  |
| S3-202255 | New WID on Security Assurance Specification for NSSAAF | Huawei, Hisilicon | withdrawn | S3-201741 |  |
| S3-202256 | new SID on security aspects of eNA phase2 | China Mobile, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, China Unicom, CATT, ZTE, Ericsson, Lenovo, Motorola Mobility, LG Elecronics, CableLabs, Interdigital | agreed | S3-201784 |  |
| S3-202257 | pCR to TR33.853 - Addition of solution addressing KI#8 | VODAFONE Group Plc | approved | S3-202008 |  |
| S3-202258 | pCR to TR33.853 - Updates to solution 14 | VODAFONE Group Plc | approved | S3-202001 |  |
| S3-202259 | Authorization of NF service access | Nokia, Nokia Shanghai Bell | agreed | S3-202189 |  |
| S3-202260 | TR 33.853 v1.1.0 | VODAFONE Group Plc | approved |  |  |
| S3-202261 | TR33.845 v0.4.0 | VODAFONE Group Plc | approved |  |  |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-201500 | 25/08/2020 08:48:35 | available |
| S3-201501 | 04/09/2020 06:59:50 | approved |
| S3-201503 | 04/09/2020 06:59:53 | noted |
| S3-201504 | 04/09/2020 07:01:13 | noted |
| S3-201505 | 04/09/2020 09:16:57 | noted |
| S3-201506 | 04/09/2020 07:11:26 | noted |
| S3-201507 | 04/09/2020 14:37:16 | noted |
| S3-201508 | 04/09/2020 12:47:17 | available |
| S3-201509 | 04/09/2020 07:06:25 | available |
| S3-201510 | 04/09/2020 07:06:33 | noted |
| S3-201511 | 04/09/2020 07:12:27 | available |
| S3-201512 | 04/09/2020 12:40:21 | postponed |
| S3-201513 | 04/09/2020 07:13:12 | noted |
| S3-201514 | 13/08/2020 09:31:45 | withdrawn |
| S3-201515 | 13/08/2020 09:32:13 | withdrawn |
| S3-201516 | 04/09/2020 07:06:45 | noted |
| S3-201517 | 04/09/2020 07:06:46 | noted |
| S3-201518 | 04/09/2020 07:13:44 | noted |
| S3-201519 | 04/09/2020 12:39:22 | noted |
| S3-201520 | 04/09/2020 13:43:46 | postponed |
| S3-201521 | 04/09/2020 12:38:19 | noted |
| S3-201522 | 04/09/2020 12:49:44 | postponed |
| S3-201523 | 13/08/2020 09:34:00 | withdrawn |
| S3-201524 | 04/09/2020 13:00:36 | postponed |
| S3-201525 | 04/09/2020 17:13:11 | noted |
| S3-201526 | 04/09/2020 15:37:52 | noted |
| S3-201527 | 04/09/2020 15:37:58 | noted |
| S3-201528 | 04/09/2020 13:01:14 | available |
| S3-201529 | 04/09/2020 15:38:06 | postponed |
| S3-201530 | 04/09/2020 15:01:28 | noted |
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| S3-201535 | 04/09/2020 07:06:55 | postponed |
| S3-201536 | 04/09/2020 15:14:24 | postponed |
| S3-201537 | 04/09/2020 12:39:29 | noted |
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| S3-201539 | 04/09/2020 15:03:04 | postponed |
| S3-201540 | 04/09/2020 07:07:37 | available |
| S3-201541 | 04/09/2020 07:08:04 | available |
| S3-201542 | 04/09/2020 07:08:42 | postponed |
| S3-201543 | 04/09/2020 14:44:26 | postponed |
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| S3-201545 | 04/09/2020 07:09:14 | noted |
| S3-201546 | 04/09/2020 07:09:17 | noted |
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| S3-201549 | 04/09/2020 14:37:19 | noted |
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| S3-201551 | 25/08/2020 09:05:40 | available |
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| S3-201575 | 04/09/2020 07:15:02 | agreed |
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| S3-201597 | 04/09/2020 14:51:59 | available |
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| S3-201634 | 04/09/2020 14:37:27 | noted |
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| S3-201676 | 04/09/2020 15:50:32 | noted |
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| S3-201736 | 04/09/2020 15:50:35 | noted |
| S3-201737 | 04/09/2020 15:50:42 | noted |
| S3-201738 | 04/09/2020 07:09:29 | noted |
| S3-201739 | 04/09/2020 15:09:25 | postponed |
| S3-201740 | 04/09/2020 15:49:42 | noted |
| S3-201741 | 04/09/2020 13:42:08 | available |
| S3-201742 | 04/09/2020 09:32:36 | available |
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| S3-201744 | 04/09/2020 12:40:43 | available |
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| S3-201746 | 04/09/2020 12:40:58 | available |
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| S3-201747 | 04/09/2020 07:38:42 | available |
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| S3-201748 | 04/09/2020 07:38:46 | available |
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| S3-201837 | 25/08/2020 08:49:24 | available |
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| S3-201881 | 04/09/2020 12:39:53 | available |
| S3-201882 | 04/09/2020 09:16:41 | available |
| S3-201883 | 04/09/2020 13:25:57 | agreed |
| S3-201884 | 04/09/2020 13:26:00 | agreed |
| S3-201885 | 04/09/2020 13:26:06 | available |
| S3-201886 | 04/09/2020 13:26:10 | available |
| S3-201887 | 04/09/2020 13:26:18 | available |
| S3-201888 | 04/09/2020 13:26:21 | available |
| S3-201889 | 04/09/2020 07:47:00 | agreed |
| S3-201890 | 04/09/2020 15:49:47 | noted |
| S3-201891 | 04/09/2020 16:58:40 | available |
| S3-201892 | 25/08/2020 08:50:11 | available |
| S3-201892 | 25/08/2020 08:50:14 | trv |
| S3-201893 | 25/08/2020 08:47:56 | available |
| S3-201894 | 04/09/2020 14:15:43 | noted |
| S3-201895 | 04/09/2020 14:15:50 | noted |
| S3-201896 | 04/09/2020 14:15:56 | noted |
| S3-201897 | 04/09/2020 14:16:03 | noted |
| S3-201898 | 04/09/2020 14:16:06 | noted |
| S3-201899 | 04/09/2020 14:16:10 | noted |
| S3-201900 | 04/09/2020 14:16:17 | noted |
| S3-201901 | 04/09/2020 14:16:34 | withdrawn |
| S3-201902 | 04/09/2020 15:11:12 | available |
| S3-201903 | 04/09/2020 15:11:21 | approved |
| S3-201904 | 04/09/2020 15:11:40 | available |
| S3-201905 | 04/09/2020 15:12:04 | noted |
| S3-201906 | 04/09/2020 15:13:11 | available |
| S3-201907 | 25/08/2020 08:48:45 | available |
| S3-201908 | 04/09/2020 15:21:09 | available |
| S3-201909 | 04/09/2020 15:21:46 | available |
| S3-201910 | 07/09/2020 06:47:18 | noted |
| S3-201911 | 04/09/2020 14:37:36 | noted |
| S3-201912 | 04/09/2020 13:39:06 | noted |
| S3-201913 | 04/09/2020 13:39:15 | noted |
| S3-201914 | 04/09/2020 07:47:04 | agreed |
| S3-201915 | 04/09/2020 07:47:07 | agreed |
| S3-201916 | 04/09/2020 07:47:15 | noted |
| S3-201917 | 04/09/2020 07:47:24 | available |
| S3-201918 | 04/09/2020 07:47:29 | available |
| S3-201919 | 04/09/2020 07:49:36 | available |
| S3-201920 | 04/09/2020 07:50:14 | available |
| S3-201921 | 04/09/2020 08:21:11 | noted |
| S3-201922 | 04/09/2020 08:22:34 | available |
| S3-201923 | 04/09/2020 08:23:14 | available |
| S3-201924 | 04/09/2020 09:25:06 | available |
| S3-201925 | 04/09/2020 15:47:04 | approved |
| S3-201926 | 04/09/2020 15:50:06 | agreed |
| S3-201927 | 25/08/2020 09:05:29 | available |
| S3-201928 | 04/09/2020 14:49:51 | available |
| S3-201929 | 04/09/2020 14:46:03 | approved |
| S3-201930 | 04/09/2020 14:46:08 | noted |
| S3-201931 | 25/08/2020 08:59:03 | available |
| S3-201932 | 04/09/2020 14:46:26 | noted |
| S3-201933 | 04/09/2020 14:46:26 | noted |
| S3-201934 | 04/09/2020 14:46:45 | approved |
| S3-201935 | 04/09/2020 14:46:50 | noted |
| S3-201936 | 04/09/2020 14:46:56 | noted |
| S3-201937 | 25/08/2020 08:58:54 | available |
| S3-201938 | 25/08/2020 08:58:45 | available |
| S3-201939 | 04/09/2020 15:01:16 | available |
| S3-201940 | 25/08/2020 08:58:35 | available |
| S3-201941 | 04/09/2020 13:42:00 | available |
| S3-201942 | 04/09/2020 12:54:08 | available |
| S3-201943 | 04/09/2020 09:36:56 | available |
| S3-201944 | 04/09/2020 09:37:02 | available |
| S3-201945 | 04/09/2020 09:37:10 | available |
| S3-201946 | 04/09/2020 09:34:27 | available |
| S3-201947 | 04/09/2020 09:36:16 | available |
| S3-201948 | 04/09/2020 09:38:15 | agreed |
| S3-201949 | 04/09/2020 15:24:44 | available |
| S3-201950 | 04/09/2020 15:24:57 | noted |
| S3-201951 | 04/09/2020 15:36:43 | available |
| S3-201952 | 04/09/2020 14:16:40 | noted |
| S3-201953 | 04/09/2020 15:47:09 | noted |
| S3-201954 | 04/09/2020 08:27:06 | noted |
| S3-201955 | 04/09/2020 07:09:42 | noted |
| S3-201956 | 25/08/2020 09:00:16 | available |
| S3-201957 | 04/09/2020 14:38:14 | approved |
| S3-201958 | 04/09/2020 12:48:30 | available |
| S3-201959 | 04/09/2020 12:49:29 | available |
| S3-201960 | 25/08/2020 09:04:52 | available |
| S3-201961 | 25/08/2020 09:04:42 | available |
| S3-201962 | 04/09/2020 15:25:23 | noted |
| S3-201963 | 04/09/2020 15:25:44 | noted |
| S3-201964 | 25/08/2020 09:04:31 | available |
| S3-201965 | 25/08/2020 09:04:21 | available |
| S3-201966 | 04/09/2020 09:38:39 | available |
| S3-201967 | 04/09/2020 09:38:45 | available |
| S3-201968 | 04/09/2020 09:39:06 | available |
| S3-201969 | 04/09/2020 15:13:37 | available |
| S3-201970 | 25/08/2020 09:05:13 | available |
| S3-201971 | 25/08/2020 09:05:01 | available |
| S3-201972 | 04/09/2020 15:14:09 | noted |
| S3-201973 | 04/09/2020 15:49:53 | noted |
| S3-201974 | 04/09/2020 12:38:34 | noted |
| S3-201975 | 04/09/2020 08:27:29 | available |
| S3-201976 | 04/09/2020 08:27:53 | available |
| S3-201977 | 04/09/2020 12:43:03 | available |
| S3-201978 | 04/09/2020 12:43:26 | available |
| S3-201980 | 04/09/2020 13:39:19 | available |
| S3-201981 | 04/09/2020 13:43:31 | approved |
| S3-201982 | 04/09/2020 13:43:34 | agreed |
| S3-201982 | 04/09/2020 13:43:35 | approved |
| S3-201984 | 04/09/2020 07:09:48 | noted |
| S3-201985 | 04/09/2020 07:09:49 | noted |
| S3-201986 | 25/08/2020 08:59:31 | available |
| S3-201987 | 25/08/2020 08:59:23 | available |
| S3-201988 | 04/09/2020 15:47:31 | noted |
| S3-201989 | 25/08/2020 08:59:13 | available |
| S3-201990 | 04/09/2020 15:47:47 | noted |
| S3-201991 | 04/09/2020 12:38:57 | agreed |
| S3-201992 | 04/09/2020 12:39:04 | agreed |
| S3-201993 | 04/09/2020 12:39:06 | agreed |
| S3-201994 | 04/09/2020 15:47:52 | noted |
| S3-201995 | 04/09/2020 15:47:56 | noted |
| S3-201996 | 25/08/2020 08:51:49 | available |
| S3-201997 | 25/08/2020 08:51:40 | available |
| S3-201998 | 04/09/2020 12:59:30 | noted |
| S3-201999 | 04/09/2020 12:59:41 | noted |
| S3-202000 | 04/09/2020 12:59:42 | noted |
| S3-202001 | 04/09/2020 14:38:53 | approved |
| S3-202002 | 04/09/2020 13:39:36 | agreed |
| S3-202003 | 04/09/2020 13:40:52 | agreed |
| S3-202004 | 04/09/2020 13:41:02 | agreed |
| S3-202005 | 04/09/2020 13:41:08 | agreed |
| S3-202006 | 04/09/2020 12:59:47 | noted |
| S3-202007 | 04/09/2020 12:59:48 | noted |
| S3-202008 | 04/09/2020 14:41:15 | available |
| S3-202009 | 25/08/2020 08:56:28 | available |
| S3-202010 | 04/09/2020 14:18:36 | noted |
| S3-202011 | 04/09/2020 14:18:36 | noted |
| S3-202012 | 04/09/2020 14:18:37 | noted |
| S3-202013 | 04/09/2020 14:18:49 | noted |
| S3-202014 | 04/09/2020 14:18:49 | noted |
| S3-202015 | 04/09/2020 14:18:50 | noted |
| S3-202016 | 25/08/2020 08:50:01 | available |
| S3-202017 | 25/08/2020 08:59:48 | available |
| S3-202018 | 04/09/2020 14:16:58 | noted |
| S3-202019 | 25/08/2020 09:03:27 | available |
| S3-202020 | 04/09/2020 14:48:15 | approved |
| S3-202021 | 04/09/2020 15:26:37 | available |
| S3-202022 | 04/09/2020 15:27:06 | available |
| S3-202023 | 04/09/2020 15:27:40 | available |
| S3-202024 | 04/09/2020 15:27:56 | available |
| S3-202025 | 04/09/2020 15:28:14 | available |
| S3-202026 | 25/08/2020 08:56:17 | available |
| S3-202027 | 04/09/2020 12:55:14 | noted |
| S3-202028 | 04/09/2020 12:55:17 | noted |
| S3-202029 | 25/08/2020 09:03:37 | available |
| S3-202030 | 25/08/2020 09:03:50 | available |
| S3-202031 | 04/09/2020 12:55:42 | noted |
| S3-202032 | 04/09/2020 15:52:22 | noted |
| S3-202033 | 04/09/2020 15:52:27 | agreed |
| S3-202034 | 04/09/2020 13:41:14 | available |
| S3-202035 | 04/09/2020 13:41:22 | available |
| S3-202036 | 04/09/2020 09:39:13 | available |
| S3-202037 | 04/09/2020 09:30:08 | available |
| S3-202038 | 04/09/2020 16:54:24 | available |
| S3-202039 | 04/09/2020 12:37:27 | available |
| S3-202040 | 04/09/2020 12:38:00 | noted |
| S3-202041 | 04/09/2020 12:37:36 | available |
| S3-202042 | 04/09/2020 14:48:21 | noted |
| S3-202043 | 04/09/2020 14:48:28 | noted |
| S3-202044 | 04/09/2020 14:48:34 | available |
| S3-202045 | 04/09/2020 14:44:12 | approved |
| S3-202046 | 04/09/2020 09:25:38 | available |
| S3-202047 | 04/09/2020 14:44:16 | noted |
| S3-202048 | 04/09/2020 12:42:36 | noted |
| S3-202049 | 04/09/2020 07:49:19 | available |
| S3-202050 | 04/09/2020 07:49:55 | available |
| S3-202051 | 04/09/2020 12:40:08 | noted |
| S3-202052 | 04/09/2020 07:10:39 | available |
| S3-202053 | 04/09/2020 07:11:04 | noted |
| S3-202054 | 04/09/2020 07:11:06 | noted |
| S3-202055 | 04/09/2020 07:46:01 | available |
| S3-202056 | 04/09/2020 08:29:09 | noted |
| S3-202057 | 04/09/2020 12:39:17 | postponed |
| S3-202058 | 26/08/2020 12:07:19 | revised |
| S3-202059 | 04/09/2020 14:48:56 | approved |
| S3-202060 | 04/09/2020 14:48:47 | approved |
| S3-202061 | 04/09/2020 14:49:44 | approved |
| S3-202062 | 04/09/2020 15:13:54 | approved |
| S3-202063 | 04/09/2020 15:03:16 | approved |
| S3-202064 | 04/09/2020 15:25:04 | approved |
| S3-202065 | 04/09/2020 15:25:09 | approved |
| S3-202066 | 04/09/2020 15:26:03 | approved |
| S3-202067 | 04/09/2020 15:26:06 | approved |
| S3-202068 | 04/09/2020 17:13:18 | approved |
| S3-202069 | 04/09/2020 12:54:25 | approved |
| S3-202070 | 04/09/2020 14:47:05 | approved |
| S3-202071 | 04/09/2020 12:55:32 | approved |
| S3-202072 | 04/09/2020 17:09:33 | approved |
| S3-202073 | 04/09/2020 15:10:45 | approved |
| S3-202074 | 04/09/2020 15:10:50 | approved |
| S3-202075 | 04/09/2020 12:55:50 | approved |
| S3-202076 | 04/09/2020 14:44:41 | approved |
| S3-202077 | 04/09/2020 12:56:46 | approved |
| S3-202078 | 04/09/2020 12:56:52 | approved |
| S3-202082 | 04/09/2020 12:57:23 | approved |
| S3-202083 | 04/09/2020 12:57:31 | approved |
| S3-202084 | 04/09/2020 16:58:09 | approved |
| S3-202085 | 04/09/2020 17:11:23 | approved |
| S3-202086 | 04/09/2020 14:37:59 | approved |
| S3-202087 | 04/09/2020 15:02:48 | approved |
| S3-202088 | 04/09/2020 14:50:09 | approved |
| S3-202089 | 04/09/2020 15:48:06 | approved |
| S3-202090 | 04/09/2020 14:52:17 | approved |
| S3-202091 | 04/09/2020 15:38:36 | approved |
| S3-202092 | 04/09/2020 15:39:59 | approved |
| S3-202093 | 04/09/2020 15:45:31 | approved |
| S3-202094 | 04/09/2020 14:46:15 | approved |
| S3-202095 | 04/09/2020 15:00:47 | approved |
| S3-202096 | 04/09/2020 14:56:58 | approved |
| S3-202097 | 04/09/2020 14:37:46 | approved |
| S3-202098 | 04/09/2020 14:45:05 | approved |
| S3-202099 | 04/09/2020 14:44:56 | approved |
| S3-202100 | 04/09/2020 14:45:12 | approved |
| S3-202101 | 04/09/2020 15:28:59 | approved |
| S3-202102 | 04/09/2020 15:29:04 | approved |
| S3-202103 | 04/09/2020 15:29:11 | approved |
| S3-202105 | 04/09/2020 15:29:29 | approved |
| S3-202106 | 04/09/2020 15:30:12 | approved |
| S3-202107 | 04/09/2020 17:12:51 | approved |
| S3-202108 | 04/09/2020 14:17:09 | approved |
| S3-202109 | 04/09/2020 14:17:22 | approved |
| S3-202110 | 04/09/2020 14:49:24 | approved |
| S3-202111 | 04/09/2020 14:50:26 | approved |
| S3-202112 | 04/09/2020 14:51:19 | approved |
| S3-202113 | 04/09/2020 14:56:45 | approved |
| S3-202114 | 04/09/2020 14:59:12 | approved |
| S3-202115 | 04/09/2020 15:04:03 | approved |
| S3-202116 | 04/09/2020 15:09:06 | approved |
| S3-202117 | 04/09/2020 15:09:14 | approved |
| S3-202118 | 04/09/2020 15:30:41 | approved |
| S3-202119 | 04/09/2020 15:09:32 | approved |
| S3-202120 | 04/09/2020 15:34:34 | approved |
| S3-202121 | 04/09/2020 15:35:02 | approved |
| S3-202123 | 04/09/2020 15:35:29 | approved |
| S3-202125 | 04/09/2020 15:36:04 | approved |
| S3-202126 | 04/09/2020 15:31:07 | approved |
| S3-202127 | 04/09/2020 14:52:59 | approved |
| S3-202128 | 04/09/2020 15:40:37 | approved |
| S3-202128 | 04/09/2020 15:42:56 | noted |
| S3-202129 | 04/09/2020 15:18:36 | approved |
| S3-202130 | 04/09/2020 15:14:45 | approved |
| S3-202131 | 04/09/2020 12:57:48 | approved |
| S3-202132 | 04/09/2020 12:57:50 | approved |
| S3-202133 | 04/09/2020 12:58:01 | approved |
| S3-202134 | 04/09/2020 12:58:02 | approved |
| S3-202135 | 04/09/2020 17:00:04 | approved |
| S3-202136 | 04/09/2020 17:03:12 | approved |
| S3-202137 | 04/09/2020 17:12:57 | approved |
| S3-202138 | 04/09/2020 12:59:15 | approved |
| S3-202139 | 04/09/2020 12:59:21 | approved |
| S3-202140 | 04/09/2020 12:58:50 | approved |
| S3-202141 | 04/09/2020 12:58:55 | approved |
| S3-202142 | 04/09/2020 17:09:02 | approved |
| S3-202143 | 04/09/2020 17:01:27 | approved |
| S3-202144 | 04/09/2020 15:19:29 | approved |
| S3-202145 | 04/09/2020 17:12:41 | approved |
| S3-202146 | 04/09/2020 15:17:49 | approved |
| S3-202147 | 04/09/2020 15:15:39 | approved |
| S3-202148 | 04/09/2020 17:00:59 | approved |
| S3-202149 | 04/09/2020 12:56:04 | approved |
| S3-202150 | 04/09/2020 17:09:13 | approved |
| S3-202151 | 04/09/2020 15:13:16 | approved |
| S3-202152 | 04/09/2020 06:59:46 | approved |
| S3-202154 | 04/09/2020 12:57:15 | approved |
| S3-202155 | 04/09/2020 14:50:48 | approved |
| S3-202156 | 04/09/2020 12:57:03 | approved |
| S3-202158 | 04/09/2020 15:15:09 | approved |
| S3-202159 | 04/09/2020 17:11:12 | approved |
| S3-202160 | 04/09/2020 07:13:29 | postponed |
| S3-202161 | 04/09/2020 13:44:04 | approved |
| S3-202162 | 04/09/2020 09:17:50 | agreed |
| S3-202163 | 04/09/2020 07:00:54 | noted |
| S3-202164 | 04/09/2020 09:06:40 | agreed |
| S3-202165 | 04/09/2020 09:06:41 | agreed |
| S3-202166 | 04/09/2020 09:18:14 | agreed |
| S3-202167 | 04/09/2020 16:53:59 | agreed |
| S3-202168 | 04/09/2020 09:34:22 | agreed |
| S3-202169 | 04/09/2020 09:36:10 | agreed |
| S3-202170 | 04/09/2020 12:49:22 | agreed |
| S3-202171 | 04/09/2020 17:15:38 | noted |
| S3-202172 | 04/09/2020 12:42:44 | agreed |
| S3-202173 | 04/09/2020 15:55:04 | approved |
| S3-202174 | 04/09/2020 09:22:36 | agreed |
| S3-202175 | 04/09/2020 15:57:30 | agreed |
| S3-202176 | 04/09/2020 09:17:18 | agreed |
| S3-202177 | 04/09/2020 12:45:57 | approved |
| S3-202178 | 04/09/2020 12:48:00 | agreed |
| S3-202179 | 04/09/2020 13:41:49 | agreed |
| S3-202180 | 04/09/2020 09:25:33 | agreed |
| S3-202181 | 04/09/2020 09:26:10 | agreed |
| S3-202182 | 04/09/2020 09:21:04 | agreed |
| S3-202183 | 04/09/2020 09:20:43 | agreed |
| S3-202184 | 04/09/2020 09:23:59 | agreed |
| S3-202185 | 04/09/2020 17:15:21 | noted |
| S3-202186 | 04/09/2020 09:24:31 | available |
| S3-202187 | 04/09/2020 15:52:29 | noted |
| S3-202188 | 04/09/2020 15:52:33 | noted |
| S3-202190 | 04/09/2020 15:55:57 | approved |
| S3-202191 | 04/09/2020 15:56:35 | approved |
| S3-202192 | 04/09/2020 15:56:47 | approved |
| S3-202193 | 04/09/2020 15:57:40 | agreed |
| S3-202194 | 04/09/2020 16:48:27 | agreed |
| S3-202195 | 04/09/2020 16:48:28 | agreed |
| S3-202196 | 04/09/2020 15:59:47 | agreed |
| S3-202197 | 04/09/2020 16:48:40 | agreed |
| S3-202198 | 04/09/2020 16:48:40 | agreed |
| S3-202199 | 04/09/2020 16:49:03 | agreed |
| S3-202200 | 04/09/2020 16:49:14 | agreed |
| S3-202201 | 04/09/2020 16:49:31 | agreed |
| S3-202202 | 04/09/2020 13:43:21 | agreed |
| S3-202203 | 04/09/2020 09:36:49 | agreed |
| S3-202204 | 04/09/2020 09:37:24 | agreed |
| S3-202205 | 04/09/2020 09:37:33 | agreed |
| S3-202206 | 04/09/2020 16:49:46 | agreed |
| S3-202207 | 04/09/2020 16:49:58 | agreed |
| S3-202208 | 04/09/2020 16:50:08 | agreed |
| S3-202209 | 04/09/2020 16:50:17 | agreed |
| S3-202210 | 04/09/2020 12:53:44 | agreed |
| S3-202211 | 04/09/2020 08:22:10 | agreed |
| S3-202212 | 04/09/2020 12:50:48 | agreed |
| S3-202213 | 04/09/2020 12:52:53 | agreed |
| S3-202214 | 04/09/2020 12:53:00 | agreed |
| S3-202215 | 04/09/2020 12:53:01 | agreed |
| S3-202216 | 04/09/2020 12:53:11 | agreed |
| S3-202217 | 04/09/2020 09:31:39 | agreed |
| S3-202218 | 04/09/2020 09:32:58 | agreed |
| S3-202219 | 04/09/2020 09:08:03 | approved |
| S3-202221 | 04/09/2020 13:43:05 | agreed |
| S3-202222 | 04/09/2020 08:22:51 | agreed |
| S3-202223 | 04/09/2020 14:13:44 | approved |
| S3-202224 | 04/09/2020 07:44:25 | approved |
| S3-202225 | 04/09/2020 14:13:47 | noted |
| S3-202225 | 10/09/2020 13:28:59 | approved |
| S3-202226 | 04/09/2020 14:13:53 | approved |
| S3-202227 | 04/09/2020 14:13:56 | approved |
| S3-202228 | 04/09/2020 09:09:00 | agreed |
| S3-202230 | 04/09/2020 17:14:09 | approved |
| S3-202231 | 04/09/2020 16:55:11 | agreed |
| S3-202232 | 04/09/2020 12:52:29 | agreed |
| S3-202233 | 04/09/2020 09:28:23 | agreed |
| S3-202234 | 04/09/2020 17:16:03 | noted |
| S3-202235 | 04/09/2020 17:16:28 | noted |
| S3-202236 | 04/09/2020 16:51:07 | available |
| S3-202237 | 04/09/2020 16:51:23 | available |
| S3-202238 | 04/09/2020 17:13:48 | noted |
| S3-202239 | 04/09/2020 16:56:07 | available |
| S3-202241 | 04/09/2020 16:51:35 | available |
| S3-202242 | 04/09/2020 16:51:54 | available |
| S3-202243 | 04/09/2020 16:52:05 | agreed |
| S3-202244 | 04/09/2020 15:51:55 | approved |
| S3-202245 | 04/09/2020 16:57:04 | agreed |
| S3-202246 | 04/09/2020 12:37:46 | agreed |
| S3-202247 | 04/09/2020 12:37:49 | agreed |
| S3-202248 | 04/09/2020 07:49:12 | agreed |
| S3-202249 | 04/09/2020 07:50:00 | agreed |
| S3-202250 | 04/09/2020 12:38:09 | agreed |
| S3-202250 | 07/09/2020 08:50:26 | approved |
| S3-202251 | 04/09/2020 16:52:55 | approved |
| S3-202252 | 04/09/2020 17:17:25 | agreed |
| S3-202253 | 04/09/2020 13:25:35 | agreed |
| S3-202254 | 04/09/2020 17:08:02 | agreed |
| S3-202256 | 04/09/2020 17:17:45 | agreed |
| S3-202257 | 04/09/2020 14:41:09 | approved |
| S3-202258 | 04/09/2020 14:40:50 | approved |
| S3-202259 | 04/09/2020 09:21:39 | agreed |
| S3-202260 | 04/09/2020 17:09:27 | approved |
| S3-202261 | 04/09/2020 17:09:39 | approved |
| S3-202262 | 07/09/2020 10:04:39 | agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-201936 | Adding MACS as an input parameter to the calculation of AK\* to provide freshness | Qualcomm Incorporated | 33.102 | 0277 | 2 | Rel-17 | F | TEI17 | noted |
| S3-201647 | [33.180] R16 Group regroup and user regroup security | Motorola Solutions Danmark A/S | 33.180 | 0149 | - | Rel-16 | F | MCXSec | not pursued |
| S3-201648 | [33.180] MCData message store security | Motorola Solutions Danmark A/S | 33.180 | 0150 | - | Rel-16 | F | MCXSec | revised |
| S3-202176 | [33.180] MCData message store security | Motorola Solutions Danmark A/S | 33.180 | 0150 | 1 | Rel-17 | B | DUMMY | agreed |
| S3-202002 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | 33.203 | 0253 | - | Rel-13 | F | eWebRTCi | agreed |
| S3-202003 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | 33.203 | 0254 | - | Rel-14 | A | eWebRTCi | agreed |
| S3-202004 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | 33.203 | 0255 | - | Rel-15 | A | eWebRTCi | agreed |
| S3-202005 | Update of the OAuth Proof-of-Possession security architecture reference | Ericsson | 33.203 | 0256 | - | Rel-16 | A | eWebRTCi | agreed |
| S3-201883 | eNB-specific adaptation to account protection by authentication attribute R15 | Nokia, Nokia Shanghai Bell | 33.216 | 0016 | - | Rel-15 | F | SCAS\_eNB | agreed |
| S3-201884 | eNB-specific adaptation to account protection by authentication attribute R16 | Nokia, Nokia Shanghai Bell | 33.216 | 0017 | - | Rel-16 | A | SCAS\_eNB | agreed |
| S3-201885 | eNB-specific adaptation to minimum number of individual accounts R15 | Nokia, Nokia Shanghai Bell | 33.216 | 0018 | - | Rel-15 | F | SCAS\_eNB | not pursued |
| S3-201886 | eNB-specific adaptation to minimum number of individual accounts R16 | Nokia, Nokia Shanghai Bell | 33.216 | 0019 | - | Rel-16 | A | SCAS\_eNB | not pursued |
| S3-201887 | eNB-specific adaptation to enforcement of password change after initial login R15 | Nokia, Nokia Shanghai Bell | 33.216 | 0020 | - | Rel-15 | F | SCAS\_eNB | not pursued |
| S3-201888 | eNB-specific adaptation to enforcement of password change after initial login R16 | Nokia, Nokia Shanghai Bell | 33.216 | 0021 | - | Rel-16 | A | SCAS\_eNB | not pursued |
| S3-201866 | SHA-1 deprecation in GBA | Huawei, Hisilicon | 33.220 | 0201 | - | Rel-17 | F | TEI17 | not pursued |
| S3-201869 | FC values for TS 33.535 | China Mobile Com. Corporation | 33.220 | 0202 | - | Rel-16 | F | AKMA | merged |
| S3-201947 | Assigning FC values for AKMA TS | Qualcomm Incorporated | 33.220 | 0203 | - | Rel-16 | F | AKMA | revised |
| S3-202169 | Assigning FC values for AKMA TS | Qualcomm Incorporated, China Mobile, Samsung | 33.220 | 0203 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-201978 | Allocation of FC values for IAB key derivation function | Samsung | 33.220 | 0204 | - | Rel-16 | F | NR\_IAB | merged |
| S3-201581 | Editorial corrections to NDS/AF | Juniper Networks | 33.310 | 0111 | - | Rel-16 | F | TEI16 | withdrawn |
| S3-201650 | [33.434] KM Clarifications | Motorola Solutions Danmark A/S | 33.434 | 0001 | - | Rel-16 | F | SEAL | revised |
| S3-202178 | [33.434] KM Clarifications | Motorola Solutions Danmark A/S | 33.434 | 0001 | 1 | Rel-16 | F | SEAL | agreed |
| S3-201959 | [SEAL] CR for TS 33.434 cleanup | Samsung | 33.434 | 0002 | - | Rel-16 | F | SEAL | revised |
| S3-202170 | [SEAL] CR for TS 33.434 cleanup | Samsung | 33.434 | 0002 | 1 | Rel-16 | F | SEAL | agreed |
| S3-201878 | Clarification to 5G AV | Nokia, Nokia Shanghai Bell | 33.501 | 0834 | 2 | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202253 | Clarification to 5G AV | Nokia, Nokia Shanghai Bell | 33.501 | 0834 | 3 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201873 | Clarification to SEAF | Nokia, Nokia Shanghai Bell | 33.501 | 0835 | 2 | Rel-16 | F | 5GS\_Ph1-SEC, TEI16 | not pursued |
| S3-201558 | Resolution of editor's note in clause 6.3.2.1 | NTT DOCOMO | 33.501 | 0857 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201559 | Resolution of editor's note in clause 6.3.2.1 - R16 mirror | NTT DOCOMO | 33.501 | 0858 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201561 | resolution of editor's notes in clause 6.8.1.2.0 | NTT DOCOMO | 33.501 | 0859 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201562 | resolution of editor's notes in clause 6.8.1.2.0 - R16 mirror | NTT DOCOMO | 33.501 | 0860 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201563 | resolution of editor's note in clause 6.8.1.2.2 | NTT DOCOMO | 33.501 | 0861 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201564 | resolution of editor's note in clause 6.8.1.2.2 - R16 mirror | NTT DOCOMO | 33.501 | 0862 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201565 | resolution of editor's note in clause 6.8.1.2.4 | NTT DOCOMO, ZTE | 33.501 | 0863 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201566 | resolution of editor's note in clause 6.8.1.2.4 - R16 mirror | NTT DOCOMO, ZTE | 33.501 | 0864 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201567 | resolution of editor's note in clause 6.9.1 | NTT DOCOMO | 33.501 | 0865 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201568 | resolution of editor's note in clause 6.9.1 - R16 mirror | NTT DOCOMO | 33.501 | 0866 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201569 | resolution of editor's note in clause 6.9.4.1 | NTT DOCOMO | 33.501 | 0867 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201570 | resolution of editor's note in clause 6.9.4.1 - R16 mirror | NTT DOCOMO | 33.501 | 0868 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201571 | resolution of editor's note in clause 6.9.4.2 | NTT DOCOMO | 33.501 | 0869 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201572 | resolution of editor's note in clause 6.9.4.2 - R16 mirror | NTT DOCOMO | 33.501 | 0870 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201573 | resolution of editor's note in clause 6.9.4.3 | NTT DOCOMO | 33.501 | 0871 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201574 | resolution of editor's note in clause 6.9.4.3 - R16 mirror | NTT DOCOMO | 33.501 | 0872 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201575 | resolution of editor's note in clause 10.2.2.2 | NTT DOCOMO | 33.501 | 0873 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202193 | resolution of editor's note in clause 10.2.2.2 | NTT DOCOMO | 33.501 | 0873 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201576 | resolution of editor's note in clause 10.2.2.2 - R16 mirror | NTT DOCOMO | 33.501 | 0874 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202196 | resolution of editor's note in clause 10.2.2.2 - R16 mirror | NTT DOCOMO | 33.501 | 0874 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201577 | resolution of editor's note in clause 13.2.4.4.1 | NTT DOCOMO | 33.501 | 0875 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201578 | resolution of editor's note in clause 13.2.4.4.1 - R16 mirror | NTT DOCOMO | 33.501 | 0876 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201579 | resolution of editor's note in clause 13.5 | NTT DOCOMO | 33.501 | 0877 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201580 | resolution of editor's note in clause 13.5 - R16 mirror | NTT DOCOMO | 33.501 | 0878 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201610 | Access Token Signature using MAC with symmetric key | Mavenir, Deutsche Telekom | 33.501 | 0879 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201611 | Static authorization details | Mavenir,Deutsche Telekom | 33.501 | 0880 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202174 | Static authorization details | Mavenir,Deutsche Telekom,Nokia, Nokia Shanghai Bell | 33.501 | 0880 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-201612 | Access token indication of NF service consumer authentication via NRF | Mavenir | 33.501 | 0881 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-201624 | Removing rel-15 text relating to N9 roaming UP | Juniper Networks | 33.501 | 0882 | - | Rel-16 | F | UPGF | agreed |
| S3-201649 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 0883 | - | Rel-16 | F | 5GS\_Ph1-SEC | revised |
| S3-202199 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 0883 | 1 | Rel-16 | F | 5GS\_Ph1-SEC | agreed |
| S3-201651 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 0884 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202200 | CR on Kseaf text deletion | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 0884 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201655 | CR to delete uncompressed mode text in profile B | Nokia, Nokia Shanghai Bell | 33.501 | 0885 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202201 | CR to delete uncompressed mode text in profile B | Nokia, Nokia Shanghai Bell, Verizon | 33.501 | 0885 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201656 | CR to delete uncompressed mode text in Profile B | Nokia, Nokia Shanghai Bell | 33.501 | 0886 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201678 | Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R15 | ZTE Corporation | 33.501 | 0887 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201679 | Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R16 | ZTE Corporation | 33.501 | 0888 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202243 | Edirorials on 13.4.1.2 Service access authorization in roaming scenarios-R16 | ZTE Corporation | 33.501 | 0888 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201731 | Alignment with RAN3 specification in R16 | Huawei, Hisilicon | 33.501 | 0889 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-201732 | Alignment with RAN3 specification in R15 | Huawei, Hisilicon | 33.501 | 0890 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201733 | SUPI Type Clarification in R16 | Huawei, Hisilicon | 33.501 | 0891 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202236 | SUPI Type Clarification in R16 | Huawei, Hisilicon | 33.501 | 0891 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-201734 | SUPI Type Clarification in R15 | Huawei, Hisilicon | 33.501 | 0892 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202237 | SUPI Type Clarification in R15 | Huawei, Hisilicon | 33.501 | 0892 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201744 | AMF selection in NSSAA related procedure in case of dual registration in different PLMNs | Huawei, Hisilicon | 33.501 | 0893 | - | Rel-16 | F | eNS | not pursued |
| S3-201745 | Slice privacy protection in NSSAA related procedure | Huawei, Hisilicon | 33.501 | 0894 | - | Rel-16 | F | eNS | not pursued |
| S3-201746 | Correction to Nnssaaf\_NSSAA services service | Huawei, Hisilicon | 33.501 | 0895 | - | Rel-16 | F | eNS | revised |
| S3-202239 | Correction to Nnssaaf\_NSSAA services service | Huawei, Hisilicon | 33.501 | 0895 | 1 | Rel-16 | F | eNS | not pursued |
| S3-202240 | Correction to Nnssaaf\_NSSAA services service | Huawei, Hisilicon | 33.501 | 0895 | 2 | Rel-16 | F | eNS | withdrawn |
| S3-201747 | Secondary authentication revocation | Huawei, Hisilicon | 33.501 | 0896 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202241 | Secondary authentication revocation | Huawei, Hisilicon | 33.501 | 0896 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201748 | Secondary authentication revocation | Huawei, Hisilicon | 33.501 | 0897 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202242 | Secondary authentication revocation | Huawei, Hisilicon | 33.501 | 0897 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-201781 | Addressing editor note on transformation of S-NSSAI during NSSAA | China Mobile | 33.501 | 0898 | - | Rel-16 | F | eNS | not pursued |
| S3-201794 | Missing abbreviations | Nokia, Nokia Shanghai Bell | 33.501 | 0899 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-201795 | Alignment and clarifications to SBA network or transport layer protocol | Nokia, Nokia Shanghai Bell | 33.501 | 0900 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202181 | Alignment and clarifications to SBA network or transport layer protocol | Nokia, Nokia Shanghai Bell | 33.501 | 0900 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-201796 | N32 interface | Nokia, Nokia Shanghai Bell | 33.501 | 0901 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202046 | N32 interface | Nokia, Nokia Shanghai Bell | 33.501 | 0901 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202180 | N32 interface | Nokia, Nokia Shanghai Bell | 33.501 | 0901 | 2 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201797 | Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | 33.501 | 0902 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-201798 | Authentication and static authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0903 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202183 | Authentication and static authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0903 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-201799 | Overview clause on communication models and related security | Nokia, Nokia Shanghai Bell | 33.501 | 0904 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202182 | Overview clause on communication models and related security | Nokia, Nokia Shanghai Bell | 33.501 | 0904 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-201800 | Authorization of NF service access | Nokia, Nokia Shanghai Bell | 33.501 | 0905 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202189 | Authorization of NF service access | Nokia, Nokia Shanghai Bell | 33.501 | 0905 | 1 | Rel-16 | F | 5G\_eSBA | revised |
| S3-202259 | Authorization of NF service access | Nokia, Nokia Shanghai Bell | 33.501 | 0905 | 2 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-201801 | Integrity protection of service request | Nokia, Nokia Shanghai Bell | 33.501 | 0906 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202186 | Integrity protection of service request | Nokia, Nokia Shanghai Bell | 33.501 | 0906 | 1 | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-201802 | Re-using of access token in indirect communication with delegated discovery | Nokia, Nokia Shanghai Bell | 33.501 | 0907 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-201803 | Making NF instance id in SBA certificate profile mandatory to support | Nokia, Nokia Shanghai Bell | 33.501 | 0908 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-202184 | Making NF instance id in SBA certificate profile mandatory to support | Nokia, Nokia Shanghai Bell | 33.501 | 0908 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-201805 | Modification on AAA Server triggered Slice-Specific Authorization Revocation procedure | CATT | 33.501 | 0909 | - | Rel-16 | F | eNS | revised |
| S3-202245 | Modification on AAA Server triggered Slice-Specific Authorization Revocation procedure | CATT | 33.501 | 0909 | 1 | Rel-16 | F | eNS | agreed |
| S3-201813 | validity peirod of NSSAA results | Huawei, HiSilicon | 33.501 | 0910 | - | Rel-16 | F | eNS | not pursued |
| S3-201815 | Serving network name in NSSAA | Huawei, HiSilicon | 33.501 | 0911 | - | Rel-16 | F | eNS | not pursued |
| S3-201816 | Clarification on binding of NSSAI and UE ID at AAA-S | Huawei, HiSilicon | 33.501 | 0912 | - | Rel-16 | F | eNS | not pursued |
| S3-201817 | Editorial changes to clause 16 | Huawei, HiSilicon | 33.501 | 0913 | - | Rel-16 | F | eNS | revised |
| S3-202231 | Corrections to clause 16 | Huawei, HiSilicon | 33.501 | 0913 | 1 | Rel-16 | F | eNS | agreed |
| S3-201841 | Change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon | 33.501 | 0914 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202208 | Change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | 33.501 | 0914 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201842 | Mirror: change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon | 33.501 | 0915 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202209 | Mirror: change the long-lived TLS connection of N32-C to the short-lived | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | 33.501 | 0915 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201843 | Update the N32-f context ID negotiation procedure | Huawei, Hisilicon | 33.501 | 0916 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202211 | Update the N32-f context ID negotiation procedure | Huawei, Hisilicon, Ericsson | 33.501 | 0916 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201844 | Mirror: update the N32-f context ID negotiation procedure | Huawei, Hisilicon | 33.501 | 0917 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202222 | Mirror: update the N32-f context ID negotiation procedure | Huawei, Hisilicon, Ericsson | 33.501 | 0917 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201845 | Enhancement on the client credentials assertion verification | Huawei, Hisilicon | 33.501 | 0918 | - | Rel-16 | F | TEI16,5GS\_Ph1-SEC | not pursued |
| S3-201850 | Clarification on the Data-type encryption policy | Huawei, Hisilicon | 33.501 | 0919 | - | Rel-16 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201867 | Clarification of direct NAS reroute | Huawei, Hisilicon | 33.501 | 0920 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202206 | Clarification of direct NAS reroute | Huawei, Hisilicon | 33.501 | 0920 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201868 | Mirror:Clarification of direct NAS reroute | Huawei, Hisilicon | 33.501 | 0921 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202207 | Mirror:Clarification of direct NAS reroute | Huawei, Hisilicon | 33.501 | 0921 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201870 | Selecting the authentication method for devices that do not support 5GC NAS over WLAN access | Lenovo, Motorola Mobility | 33.501 | 0922 | - | Rel-16 | F | 5WWC | not pursued |
| S3-201881 | Anonymous SUCI for N5GC | Ericsson LM | 33.501 | 0923 | - | Rel-16 | F | 5WWC | not pursued |
| S3-201889 | Correction to SN Addition or modification | Lenovo, Motorola Mobility | 33.501 | 0924 | - | Rel-16 | F | 5GS\_Ph1-SEC | revised |
| S3-202175 | Correction to SN Addition or modification | Lenovo, Motorola Mobility | 33.501 | 0924 | 1 | Rel-16 | F | 5GS\_Ph1-SEC | agreed |
| S3-201914 | Correction of the full form of the abbreviation NRF | Ericsson | 33.501 | 0925 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201915 | Correction of the full form of the abbreviation NRF | Ericsson | 33.501 | 0926 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-201917 | Verification of Serving Network Name in AUSF | Ericsson | 33.501 | 0927 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201918 | Verification of Serving Network Name in AUSF | Ericsson | 33.501 | 0928 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-201919 | Aligning steering of roaming security mechanism with TS 29.509, TS 29.503 and TS 24.501 | Ericsson | 33.501 | 0929 | - | Rel-15 | F | 5GS\_Ph1-SEC | merged |
| S3-201920 | Aligning steering of roaming security mechanism with TS 29.509, TS 29.503 and TS 24.501 | Ericsson | 33.501 | 0930 | - | Rel-16 | A | 5GS\_Ph1-SEC | merged |
| S3-201922 | Aligning TS 33.501 with TS 29.573 regarding N32-f context ID | Ericsson | 33.501 | 0931 | - | Rel-15 | F | 5GS\_Ph1-SEC | merged |
| S3-201923 | Aligning TS 33.501 with TS 29.573 regarding N32-f context ID | Ericsson | 33.501 | 0932 | - | Rel-16 | A | 5GS\_Ph1-SEC | merged |
| S3-201924 | Token request parameters in Scenario D | Ericsson | 33.501 | 0933 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-201928 | Location of ARPF functionality | Ericsson | 33.501 | 0934 | - | Rel-16 | F | TEI16 | not pursued |
| S3-201975 | Alignment of SoR procedures to Stage-3 | Samsung | 33.501 | 0935 | - | Rel-15 | F | 5GS\_Ph1-SEC | merged |
| S3-201976 | Alignment of SoR procedures to Stage-3 | Samsung | 33.501 | 0936 | - | Rel-16 | A | 5GS\_Ph1-SEC | merged |
| S3-201977 | Allocation of FC values for KIAB derivation function | Samsung | 33.501 | 0937 | - | Rel-16 | F | NR\_IAB | revised |
| S3-202172 | Allocation of FC values for KIAB derivation function | Samsung | 33.501 | 0937 | 1 | Rel-16 | F | IAB | agreed |
| S3-201980 | Removal of response from gNB to the AMF after inter-gNB-CU HO | Samsung | 33.501 | 0938 | - | Rel-16 | F | 5GS\_Ph1-SEC | not pursued |
| S3-201983 | Roaming case for indirect communication | Ericsson | 33.501 | 0939 | - | Rel-16 | F | 5G\_eSBA | withdrawn |
| S3-202034 | Handling of counter wrap around in UDM | Ericsson | 33.501 | 0940 | - | Rel-16 | F | TEI16 | not pursued |
| S3-202035 | Storage of KAUSF in the UE and AUSF | Ericsson | 33.501 | 0941 | - | Rel-16 | F | TEI16 | not pursued |
| S3-202044 | Authentication Result Confirmation | Ericsson | 33.501 | 0942 | - | Rel-16 | F | TEI16 | not pursued |
| S3-202049 | Clarifications to SoR integrity protection mechanism | Orange | 33.501 | 0943 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-202248 | Clarifications to SoR integrity protection mechanism | Orange, Ericsson, Samsung | 33.501 | 0943 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202050 | Clarifications to SoR integrity protection mechanism | Orange | 33.501 | 0944 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-202249 | Clarifications to SoR integrity protection mechanism | Orange, Ericsson, Samsung | 33.501 | 0944 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-202162 | Access Token Signature using MAC with symmetric key | Mavenir, Deutsche Telekom | 33.501 | 0945 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202164 | Error handling by the receiving NF | Nokia, Nokia Shanghai Bell | 33.501 | 0946 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202165 | Error handling by the receiving NF | Nokia, Nokia Shanghai Bell | 33.501 | 0947 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-202166 | Static authorization details | Mavenir,Deutsche Telekom,Nokia, Nokia Shanghai Bell | 33.501 | 0948 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202167 | N32 interface | Nokia, Nokia Shanghai Bell | 33.501 | 0949 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202194 | NF Service Producer authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0950 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202195 | NF Service Producer authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0951 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-202197 | OAuth 2.0 based authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0952 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-202198 | OAuth 2.0 based authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0953 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-202254 | Clarification to 5G AV | Nokia,Nokia Shanghai Bell | 33.501 | 0954 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-201879 | gNB-specific adaptation to account protection by authentication attribute | Nokia, Nokia Shanghai Bell | 33.511 | 0015 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-201880 | gNB-specific adaptation to minimum number of individual accounts | Nokia, Nokia Shanghai Bell | 33.511 | 0016 | - | Rel-16 | F | SCAS\_5G | not pursued |
| S3-201882 | gNB-specific adaptation to enforcement of password change after initial login | Nokia, Nokia Shanghai Bell | 33.511 | 0017 | - | Rel-16 | F | SCAS\_5G | not pursued |
| S3-201840 | Clarification on the test cases if the UDM and AUSF are collocated | Huawei, Hisilicon | 33.514 | 0003 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-202228 | Clarification on the test cases if the UDM and AUSF are collocated | Huawei, Hisilicon | 33.514 | 0003 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-201680 | Add three Abbreviations to clause 3.3 | ZTE Corporation | 33.535 | 0001 | - | Rel-16 | F | AKMA | revised |
| S3-202233 | Add three Abbreviations to clause 3.3 | ZTE Corporation | 33.535 | 0001 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201681 | Delete routing ID in A-KID | ZTE Corporation | 33.535 | 0002 | - | Rel-16 | F | AKMA | not pursued |
| S3-201683 | Kaf update in clause 5.2 and 6.4.3 | ZTE Corporation | 33.535 | 0003 | - | Rel-16 | F | AKMA | not pursued |
| S3-201684 | AUSF needs not store KAUSF | ZTE Corporation | 33.535 | 0004 | - | Rel-16 | F | AKMA | not pursued |
| S3-201685 | Resolution of editor's note on other parameter in clause 6.3 | ZTE Corporation | 33.535 | 0005 | - | Rel-16 | F | AKMA | not pursued |
| S3-201686 | Services Provided by AAnF in clause 7.1 | ZTE Corporation | 33.535 | 0006 | - | Rel-16 | F | AKMA | merged |
| S3-201687 | Services Provided by AUSF in clause 7.2 | ZTE Corporation | 33.535 | 0007 | - | Rel-16 | F | AKMA | merged |
| S3-201688 | Clarification of when to derive Kaf in UE | ZTE Corporation | 33.535 | 0008 | - | Rel-16 | F | AKMA | not pursued |
| S3-201717 | Clarifications on error case in AKMA process | Huawei, Hisilicon | 33.535 | 0009 | - | Rel-16 | F | AKMA | revised |
| S3-202217 | Clarifications on error case in AKMA process | Huawei, Hisilicon | 33.535 | 0009 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201742 | Aware of AF‘s AKMA service capability in the UE | Huawei, Hisilicon | 33.535 | 0010 | - | Rel-16 | F | AKMA | not pursued |
| S3-201753 | The deployment of AAnF | Huawei, Hisilicon | 33.535 | 0011 | - | Rel-16 | F | AKMA | not pursued |
| S3-201754 | Use routing ID to find AAnF | Huawei, Hisilicon | 33.535 | 0012 | - | Rel-16 | F | AKMA | not pursued |
| S3-201755 | Reauthenticaiton in AKMA | Huawei, Hisilicon | 33.535 | 0013 | - | Rel-16 | F | AKMA | revised |
| S3-202218 | Reauthenticaiton in AKMA | Huawei, Hisilicon | 33.535 | 0013 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201768 | Adding AMF functionality in clause 4.2 | CATT | 33.535 | 0014 | - | Rel-16 | F | AKMA | not pursued |
| S3-201769 | Adding details of AKMA key generation in the UE | CATT | 33.535 | 0015 | - | Rel-16 | F | AKMA | not pursued |
| S3-201785 | Add abbreviations to TS 33.535 | China Mobile | 33.535 | 0016 | - | Rel-16 | F | AKMA | merged |
| S3-201786 | FC values allocation | China Mobile | 33.535 | 0017 | - | Rel-16 | F | AKMA | merged |
| S3-201787 | CR to TS 33.220-FC values allocation for AKMA | China Mobile | 33.535 | 0018 | - | Rel-16 | F | AKMA | withdrawn |
| S3-201788 | Correction of AKMA services in section 7 | China Mobile | 33.535 | 0019 | - | Rel-16 | F | AKMA | merged |
| S3-201789 | Adding AKMA context description | China Mobile | 33.535 | 0020 | - | Rel-16 | F | AKMA | agreed |
| S3-201790 | Adding details on UE AKMA capability handling | CATT | 33.535 | 0021 | - | Rel-16 | F | AKMA | not pursued |
| S3-201791 | Clarification on AKMA Application Key derivation in the UE | CATT | 33.535 | 0022 | - | Rel-16 | F | AKMA | not pursued |
| S3-201943 | Updates to Abbreviations and Corrections and clarifications to clause 4 | Qualcomm Incorporated | 33.535 | 0023 | - | Rel-16 | F | AKMA | revised |
| S3-202203 | Updates to Abbreviations and Corrections and clarifications to clause 4 | Qualcomm Incorporated | 33.535 | 0023 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201944 | Corrections to AKMA key lifetimes | Qualcomm Incorporated | 33.535 | 0024 | - | Rel-16 | F | AKMA | revised |
| S3-202204 | Corrections to AKMA key lifetimes | Qualcomm Incorporated | 33.535 | 0024 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201945 | Corrections and clarifications to AKMA procedures | Qualcomm Incorporated | 33.535 | 0025 | - | Rel-16 | F | AKMA | revised |
| S3-202205 | Corrections and clarifications to AKMA procedures | Qualcomm Incorporated | 33.535 | 0025 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201946 | Assignment of FC values for key derivations | Qualcomm Incorporated | 33.535 | 0026 | - | Rel-16 | F | AKMA | revised |
| S3-202168 | Assignment of FC values for key derivations | Qualcomm Incorporated, China Mobile | 33.535 | 0026 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201948 | Specification of value of SUPI for key derivations | Qualcomm Incorporated | 33.535 | 0027 | - | Rel-16 | F | AKMA | agreed |
| S3-201966 | [AKMA] Service Update to clause 6.1, 6.2 and 7.1 | Samsung | 33.535 | 0028 | - | Rel-16 | F | AKMA | merged |
| S3-201967 | [AKMA] Deletion of service provided by AUSF in clause 7.2 | Samsung | 33.535 | 0029 | - | Rel-16 | F | AKMA | merged |
| S3-201968 | Support for context deregistration option in AKMA | Samsung | 33.535 | 0030 | - | Rel-16 | F | AKMA | not pursued |
| S3-202036 | AKMA Anchor Function selection clause | Ericsson | 33.535 | 0031 | - | Rel-16 | F | AKMA | not pursued |
| S3-202037 | AKMA SBA interface clarifications | Ericsson | 33.535 | 0032 | - | Rel-16 | F | AKMA | revised |
| S3-202246 | AKMA SBA interface clarifications | Ericsson, ZTE, China Mobile, Samsung | 33.535 | 0032 | 1 | Rel-16 | F | AKMA | agreed |
| S3-202038 | AKMA reference point architecture specification | Ericsson | 33.535 | 0033 | - | Rel-16 | F | AKMA | not pursued |
| S3-202039 | Several clarifications and editorials | Ericsson | 33.535 | 0034 | - | Rel-16 | F | AKMA | revised |
| S3-202247 | Several clarifications and editorials | Ericsson | 33.535 | 0034 | 1 | Rel-16 | F | AKMA | agreed |
| S3-201557 | Clarification on the definition of KNRP-sess | InterDigital, Inc., LG Electronics, Qualcomm Incorporated | 33.536 | 0001 | - | Rel-16 | F | eV2XARC | agreed |
| S3-201609 | Corrections on security establishment | InterDigital, Inc. | 33.536 | 0002 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-201689 | Clarification of handling of the user plane security policy in clause 5.3.3.1.4.2.3 | ZTE Corporation | 33.536 | 0003 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-201690 | Clean up for eV2X | ZTE Corporation | 33.536 | 0004 | - | Rel-16 | F | eV2XARC | merged |
| S3-201691 | Update the clause 5.3.3.1.4.3 | ZTE Corporation | 33.536 | 0005 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-201692 | Update the clause 5.3.3.2.2 | ZTE Corporation | 33.536 | 0006 | - | Rel-16 | F | eV2XARC | revised |
| S3-202232 | Update the clause 5.3.3.2.2 | ZTE Corporation | 33.536 | 0006 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201710 | Editorial changes about subscript corrections | Huawei, Hisilicon | 33.536 | 0007 | - | Rel-16 | F | eV2XARC | revised |
| S3-202212 | Editorial changes about eV2X | Huawei, Hisilicon, ZTE Corporation | 33.536 | 0007 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201711 | Propose to add descriptions about Knrp ID confliction | Huawei, Hisilicon | 33.536 | 0008 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-201712 | Clarification on policy handling | Huawei, Hisilicon | 33.536 | 0009 | - | Rel-16 | F | eV2XARC | revised |
| S3-202213 | Clarification on policy handling | Huawei, Hisilicon | 33.536 | 0009 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201713 | Clarification on algorithm selection and key derivation | Huawei, Hisilicon | 33.536 | 0010 | - | Rel-16 | F | eV2XARC | revised |
| S3-202214 | Clarification on algorithm selection and key derivation | Huawei, Hisilicon | 33.536 | 0010 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201714 | Clarification on processing null-algorithms | Huawei, Hisilicon | 33.536 | 0011 | - | Rel-16 | F | eV2XARC | revised |
| S3-202215 | Clarification on processing null-algorithms | Huawei, Hisilicon | 33.536 | 0011 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201715 | Propose to mitigate the bidding down attack | Huawei, Hisilicon | 33.536 | 0012 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-201716 | Propose to complete security lagorithm selection for UP | Huawei, Hisilicon | 33.536 | 0013 | - | Rel-16 | F | eV2XARC | revised |
| S3-202216 | Propose to complete security lagorithm selection for UP | Huawei, Hisilicon | 33.536 | 0013 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201838 | Clarification on the UP security configuration checking | Huawei, Hisilicon | 33.536 | 0014 | - | Rel-16 | B | eV2XARC | revised |
| S3-202210 | Clarification on the UP security configuration checking | Huawei, Hisilicon | 33.536 | 0014 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-201839 | Clarification on the UP security policy activation | Huawei, Hisilicon | 33.536 | 0015 | - | Rel-16 | B | eV2XARC | not pursued |
| S3-201942 | Clarification on the unicast privacy procedures | Qualcomm Incorporated | 33.536 | 0016 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-201660 | TR 33.836 - clean-up | LG Electronics Inc. | 33.836 | 0001 | - | Rel-16 | F | FS\_eV2X\_Sec | agreed |
| S3-201926 | Clean-up, including removal of Editor's Notes | Ericsson | 33.855 | 0001 | - | Rel-16 | F | FS\_SBA\_Sec | agreed |
| S3-201991 | CIoT: Converting remaining ENs into Notes | Ericsson | 33.861 | 0001 | - | Rel-16 | F | FS\_CIoT\_sec\_5G | agreed |
| S3-201992 | CIoT: Converting TBDs to notes | Ericsson | 33.861 | 0002 | - | Rel-16 | F | FS\_CIoT\_sec\_5G | agreed |
| S3-201993 | CIoT: Adding missing references | Ericsson | 33.861 | 0003 | - | Rel-16 | F | FS\_CIoT\_sec\_5G | agreed |
| S3-201693 | Updating IPUPS of UPF to Annex L of TR 33.926 | ZTE Corporation | 33.926 | 0036 | - | Rel-17 | B | SCAS\_5G\_IPUPS | not pursued |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-201504 |  | 5G capabilities exposure for factories of the future | 5GACIA | noted | (none) |
| S3-201505 |  | Reply LS on IANA assigned values for mission critical | C1-203503 | noted | (none) |
| S3-201506 |  | Reply LS on specification of NAS COUNT for 5G | C1-203971 | noted | (none) |
| S3-201507 |  | Reply LS on Updated User Plane Integrity Protection advice | C1-204194 | noted | (none) |
| S3-201508 |  | LS on Key Management procedure in SEAL | C3-203588 | replied to | S3-202177 |
| S3-201509 |  | Reply PAP/CHAP and other point-to-point protocols usage in 5GS | S2-2004481 | replied to | S3-202190 |
| S3-201510 |  | Reply LS on PAP/CHAP and other point-to-point protocols usage in 5GS | C3-203609 | noted | (none) |
| S3-201511 |  | LS on 5G SoR integrity protection mechanism | C4-203367 | replied to | S3-202251 |
| S3-201512 |  | LS on Clarification on AAA-Server address | C4-203452 | postponed | S3-202048 |
| S3-201513 |  | LS Reply on Multiple Kausf upon registering via multiple Serving Networks | C4-203568 | noted | (none) |
| S3-201514 |  | Reply LS on S1/NG DAPS handover | CP-201312 | withdrawn | (none) |
| S3-201515 |  | LS on human-readable network name (HRNN) | CP-201361 | withdrawn | (none) |
| S3-201516 |  | LS to ITU-T Study Group 17 | ETSI TC CYBER QSC | noted | (none) |
| S3-201517 |  | Announcement of ISG ETI | ETSI ISG ETI | noted | (none) |
| S3-201518 |  | Specification of NAS COUNT for 5G | GSMA FSAG | noted | (none) |
| S3-201519 |  | Uniqueness of FN-RG PEI for Lawful Interception purposes | BBF | noted | (none) |
| S3-201520 |  | Reply LS to SA3 on FBS detection | R2-1914224 | postponed | (none) |
| S3-201521 |  | LS on early UE capability retrieval for eMTC | R2-2003935 | noted | (none) |
| S3-201522 |  | LS on the re-keying procedure for NR SL | R2-2005978 | postponed | (none) |
| S3-201523 |  | LS on system support for WUS | R2-2005985 | withdrawn | (none) |
| S3-201524 |  | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | postponed | (none) |
| S3-201525 |  | LS on Questions on onboarding requirements | S1-201087 | noted | (none) |
| S3-201526 |  | Reply LS on Questions on onboarding requirements | S1-202266 | noted | (none) |
| S3-201527 |  | Questions on onboarding requirements | S2-2001729 | noted | (none) |
| S3-201528 |  | LS on AMF Reallocation via RAN re-routing | S2-2001730 | replied to | S3-201862 |
| S3-201529 |  | LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | S2-2004385 | postponed | S3-201953 |
| S3-201530 |  | Reply LS on Application Architecture for enabling Edge Applications | S2-2004386 | noted | (none) |
| S3-201531 |  | Reply LS on early UE capability retrieval for eMTC | S2-2004446 | noted | (none) |
| S3-201532 |  | Reply LS on manipulation of CAG Information element by a VPLMN | S2-2004453 | noted | (none) |
| S3-201533 |  | Reply LS on protection of allowed CAG list against MITM Attack | S2-2004455 | noted | (none) |
| S3-201534 |  | Reply LS on NSSAAF in slice specific authentication | S2-2004476 | noted | (none) |
| S3-201535 |  | LS on user consent requirements for analytics | S2-2004560 | postponed | (none) |
| S3-201536 |  | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | postponed | S3-201950 |
| S3-201537 |  | LS on uniqueness of PEI in certain FN-RG configurations | S3i200069 | noted | (none) |
| S3-201538 |  | LS on security procedures for Edge Applications | S6-200945 | replied to | S3-202087 |
| S3-201539 |  | LS on IP address to GPSI translation | S6-200947 | postponed | (none) |
| S3-201540 |  | 256 bit algorithm candidates | ETSI SAGE | replied to | S3-202191 |
| S3-201541 |  | Observations on ZUC-256 | ETSI SAGE | replied to | S3-202192 |
| S3-201542 |  | Observations and questions on 256-bit security goals | ETSI SAGE | postponed | (none) |
| S3-201543 |  | Reply to LS on Resynchronisations | ETSI SAGE | postponed | (none) |
| S3-201544 |  | Use of 256-bit block Rijndael in Milenage-256 | ETSI SAGE | postponed | (none) |
| S3-201545 |  | Liaison statement from ETSI ISG SAI on Securing Artificial Intelligence | ETSI ISG SAI | noted | (none) |
| S3-201546 |  | Reply LS to TC CYBER QSC request for collaboration on migration planning of HSMs to support Quantum Safe Cryptography | ETSI TC SCP | noted | (none) |
| S3-201547 |  | NESAS Official Launch | GSMA SECAG | replied to | S3-202219 |
| S3-201548 |  | LS on technical reports on use cases and requirements as well as architecture for vehicular multimedia | ITU-T Focus Group on Vehicular Multimedia (FG-VM) | noted | (none) |
| S3-201549 |  | LS on mandatory support of full rate user plane integrity protection for 5G | SP-200617 | noted | (none) |
| S3-202051 |  | Completion of WT-456 and WT-470 | BBF | noted | (none) |
| S3-202052 |  | LS from RIFS to SA on 4G authentication improvement | GSMA | replied to | S3-202173 |
| S3-202053 |  | LS on initiation of new work item Q.Pro-Trust “Signalling procedures and protocols for enabling interconnection between trustable network entities in support of existing and emerging networks” | ITU-T SG11 | noted | (none) |
| S3-202054 |  | LS on initiation of new work item TR-USSD “Low resource requirement, quantum resistant, encryption of USSD messages for use in Financial services” | ITU-T SG11 | noted | (none) |
| S3-202055 |  | N32-f Protection Policy IE Data-Type Mapping | GSMA | replied to | S3-202224 |
| S3-202056 |  | N32-f Error Responses - Mapping | GSMA | noted | (none) |
| S3-202057 |  | LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | C1-200967 | postponed | (none) |
| S3-202160 |  | LS on Misalignments on HTTP message format over N32-f | C4-204409 | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-201862 | LS out on AMF reallocation via RAN | SA2 | - | S3-201528 |
| S3-202087 | Reply LS on security procedures for Edge Applications | SA6 | - | S3-201538 |
| S3-202173 | Reply LS to GSMA RIFS on 4G authentication improvement | GSMA FASG RIFS | 3GPP CT4 | S3-202052 |
| S3-202177 | Reply LS on Key Management procedure in SEAL | CT3 | SA6, CT1 | S3-201508 |
| S3-202190 | Reply to Reply PAP/CHAP and other point-to-point protocols usage in 5GS | SA2, CT1, CT3 | CT4 | S3-201509 |
| S3-202191 | Reply LS on 256 bit algorithm candidates | ETSI SAGE | - | S3- 201540 |
| S3-202192 | Reply LS on Observations on ZUC-256 | ETSI SAGE | - | S3-201541 |
| S3-202219 | Relay LS to NESAS Official Launch | GSMA SECAG | - | S3-201547 |
| S3-202224 | Reply LS on N32-f Protection Policy IE Data-Type Mapping | GSMA FASG 5GIS, CT4 | - |  |
| S3-202244 | LS for penetration test inclusion of SCAS | GSMA SECAG | - |  |
| S3-202250 | LS on Reference point interface names for AKMA | SA2 | - |  |
| S3-202251 | Reply LS on LS on 5G SoR integrity protection mechanism | CT4 | CT1 | S3-201511 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-201782 | new SID on security aspects of 5G MSG | China Mobile, China Unicom, Huawei, ZTE, CATT | SID new |
| S3-202252 | New study on the security of AMF re-allocation | Ericsson | SID new |
| S3-202256 | new SID on security aspects of eNA phase2 | China Mobile, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, China Unicom, CATT, ZTE, Ericsson, Lenovo, Motorola Mobility, LG Elecronics, CableLabs, Interdigital | SID new |
| S3-202179 | New WID on mission critical security enhancements phase 2 | Motorola Solutions Danmark A/S | WID new |
| S3-202202 | Enhancements to UPIP Support in 5GS | Qualcomm Incorporated | WID new |
| S3-202221 | New WID on Security Assurance Specification for NSSAAF | Huawei, Hisilicon | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-201582 | 33.857 | 0.0.0 | Skeleton TR 33.857 v000 |
| S3-201583 | 33.851 | 0.0.0 | TR\_33.851\_IIoT\_Sec skeleton |
| S3-201629 | 33.840 | 0.0.1 | Skeleton for TR 33.840 |
| S3-201704 | 33.840 | 0.0.1 | Skeleton for TR 33.840 |
| S3-201705 | 33.840 | 0.0.2 | Skeleton for TR 33.840 |
| S3-201722 | 33.850 | 0.0.0 | Proposed Skeleton for MBS SID |
| S3-201804 | 33.847 | 0.0.0 | Draft skeleton of TR 33.847 |
| S3-201834 | 33.839 | 0.0.0 | Skeleton for edge computing SID |
| S3-202068 | 33.857 | 0.1.0 | Draft TR 33857 v010 Study on enhanced security support for Non-Public Networks (NPN) |
| S3-202072 | 33.846 | 0.7.0 | Draft TR 33.846 v0.7.0 Study on authentication enhancements in the 5G System (5GS) |
| S3-202084 | 33.226 | 0.2.0 | Draft TS 33.226 v0.2.0 Security assurance for IP Multimedia Subsystem (IMS) |
| S3-202085 | 33.839 | 0.1.0 | Draft TR 33.839 Study on security aspects of enhancement of support for edge computing in 5G Core (5GC) |
| S3-202107 | 33.851 | 0.1.0 | TR\_33.851\_IIoT\_Sec |
| S3-202143 | 33.522 | 0.2.0 | Draft TS 33.522 v0.2.0 5G SCAS for SCP |
| S3-202145 | 33.847 | 0.1.0 | Draft TR 33.847 |
| S3-202150 | 33.809 | 0.10.0 | draft TR for 5GFBS |
| S3-202159 | 33.854 | 0.1.0 | Draft TR 33.854 |
| S3-202229 | 33.840 | 0.0.2 | Skeleton for TR 33.840 |
| S3-202230 | 33.840 | 0.0.3 | Skeleton for TR 33.840 |
| S3-202260 | 33.853 | 1.1.0 | TR 33.853 v1.1.0 |
| S3-202261 | 33.845 | 0.4.0 | TR33.845 v0.4.0 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Category Code | Organization Represented |
| Mr. | Ashton | Tim | ETSI | National Technical Assistance |
| Prof. | Babbage | Steve | ETSI | VODAFONE Group Plc |
| Dr. | Baboescu | Florin | ETSI | BROADCOM CORPORATION |
| Dr. | Baskaran | Sheeba Backia Mary | ETSI | Lenovo Mobile Com. Technology |
| Dr. | Ben Henda | Noamen | ETSI | Ericsson LM |
| Ms. | Bi | Xiaoyu | CCSA | Datang Mobile Com. Equipment |
| Mr. | Bjerrum | Bo Holm | ETSI | Nokia Germany |
| Mr. | Blanchard | Colin | ETSI | BT plc |
| Mr. | Brusilovsky | Alec | ETSI | InterDigital, Inc. |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark |  | National Technical Assistance |
| Mr. | Castagno | Mauro | ETSI | TELECOM ITALIA S.p.A. |
| Mr. | Choyi | Vinod Kumar | ETSI | Verizon Switzerland AG |
| Mr. | Cichonski | Jeffrey | ATIS | NIST |
| Ms. | Comak | Pinar | ETSI | Ericsson LM |
| Dr. | Corbett | Cherita | ATIS | Johns Hopkins University APL |
| Mr. | Dees | Walter | ETSI | Philips International B.V. |
| Ms. | Deng | Juan | CCSA | HUAWEI Technologies Japan K.K. |
| Mr. | Doerr | Johannes | ETSI | BMWi |
| Mr. | Dolly | Martin | ATIS | AT&T |
| Mr. | Dressler | Christian | ETSI | ZITiS |
| Dr. | Ekdahl | Patrik | ETSI | Ericsson LM |
| Mr. | Ennesser | Francois | ETSI | Huawei Technologies France |
| Dr. | Escott | Adrian | ETSI | Qualcomm CDMA Technologies |
| Mr. | Evans | Tim P. | ETSI | VODAFONE Group Plc |
| Mr. | Everett | Jared | ATIS | Johns Hopkins University APL |
| Mr. | Ferdi | Samir | ETSI | InterDigital, Europe, Ltd. |
| Mr. | Gamishev | Todor | ETSI | Orange |
| Dr. | Gao | Feng | CCSA | China Unicom |
| Dr. | Garcia-Morchon | Oscar | ETSI | Philips International B.V. |
| Mr. | Goldberg | Martin | ATIS | U.S. Department of Defense |
| Mr. | Grewal | Rajpreet Singh | ATIS | NTIA |
| Ms. | Guo | Ivy | CCSA | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | ETSI | Huawei Device Co., Ltd |
| Mr. | Hanhisalo | Markus | ETSI | Ericsson LM |
| Mr. | Hegedus | Gabor | ETSI | SSNS |
| Mr. | Hoffpauir | Dusty | ATIS | Charter Communications, Inc |
| Dr. | HUANG | Lin | CCSA | Alibaba (China) Group., Ltd. |
| Miss | Huang | Xiaoting | CCSA | China Mobile Com. Corporation |
| Miss | Jerichow | Anja | ETSI | Nokia Germany |
| Dr. | Jost | Christine | ETSI | Ericsson LM |
| Dr. | Karakoc | Ferhat | ETSI | Ericsson LM |
| Dr. | Keesmaat | Iko | ETSI | KPN N.V. |
| Mr. | Kim | Dongjoo | TTA | LG Electronics Inc. |
| Dr. | Kim | Laeyoung | ETSI | LG Electronics Polska |
| Mr. | Ko | Minbeom | TTA | Samsung Electronics Co., Ltd |
| Mr. | Kohalmi | Steve | ETSI | Juniper Networks |
| Mr. | Kolekar | Abhijeet | ETSI | Intel Deutschland GmbH |
| Ms. | Koser | Elizabeth | ATIS | U.S. Department of Defense |
| Mr. | Koshta | Nirlesh | ETSI | Apple AB |
| Mr. | Kruse | Heiko | ETSI | IDEMIA |
| Dr. | Kunz | Andreas | ETSI | Lenovo (Beijing) Ltd |
| Mr. | Laitinen | Mika | ETSI | Airbus |
| Mr. | Leadbeater | Alex | ETSI | BT plc |
| Dr. | Lee | Soo Bum | ATIS | Qualcomm Incorporated |
| Mr. | Lee | Xiaoyang | ATIS | CISA ECD |
| Mr. | Lehtovirta | Vesa | ETSI | Ericsson LM |
| Dr. | LEI | AO | ETSI | HuaWei Technologies Co., Ltd |
| Dr. | Lei | Zander (Zhongding) | CCSA | Huawei Technologies Japan K.K. |
| Mr. | Li | He | ETSI | HiSilicon Technologies Co. Ltd |
| Mrs. | li | pei | CCSA | New H3C Technologies Co., Ltd. |
| Mr. | Libunao | Gerardo | ETSI | Verizon UK Ltd |
| Dr. | Liu | Fuwen | CCSA | China Mobile Com. Corporation |
| Mr. | Liu | Yuze | CCSA | ZTE Trunking Technology Corp. |
| Mr. | Loushine | Mike | ATIS | AT&T |
| Miss | Lu | Wei | TTA | Nokia Shanghai Bell |
| Mr. | Luft | Achim | ETSI | IPCom GmbH & Co.KG |
| Mr. | Mayalil | Stanley | ETSI | Apple GmbH |
| Mr. | McKee | Alan | ETSI | NCSC |
| Dr. | Muhanna | Ahmad | ETSI | Mavenir |
| Mr. | Nakarmi | Prajwol Kumar | ETSI | Ericsson Limited |
| Mr. | Normann | Henrik Andreas | ETSI | Ericsson Telecomunicazioni SpA |
| Mr. | Norton | Mark | ATIS | U.S. Department of Defense |
| Mr. | Occleshaw | Jack | ETSI | BT plc |
| Mr. | O'Driscoll | James | ETSI | NCSC |
| Mr. | Palanigounder | Anand | ETSI | Qualcomm Incorporated |
| Ms. | Parambath Sasi | NIvedya | TSDSI | Samsung R&D Institute India |
| Mr. | Pätzold | Thomas | ETSI | Deutsche Telekom AG |
| Mrs. | Pauliac | Mireille | ETSI | THALES |
| Mr. | PENG | Jin | ETSI | ZTE Corporation |
| Mr. | PINTO | BARUCH | ETSI | Allot Ltd |
| Mr. | Pudney | Chris | ETSI | VODAFONE Group Plc |
| Mr. | Qi | Minpeng | CCSA | China Mobile Com. Corporation |
| Mr. | Qi | Yang | CCSA | Qihoo 360 |
| Mr. | Rajadurai | Rajavelsamy | ETSI | Samsung R&D Institute UK |
| Ms. | Rajendran | Rohini | TSDSI | SAMSUNG R&D INSTITUTE JAPAN |
| Mrs. | Rong | Wu | ETSI | Huawei Technologies Sweden AB |
| Mr. | Schumacher | Greg | ETSI | T-Mobile USA |
| Ms. | Shen | Jun | ETSI | China Telecommunications |
| Dr. | Shyy | DJ | ETSI | MITRE Corporation |
| Mr. | Smith | Brian | ETSI | Bell Mobility |
| Mr. | Syrett | Mark | ETSI | Hewlett-Packard Enterprise |
| Mr. | Toor | Gurbakshish Singh | CCSA | Huawei Tech.(UK) Co., Ltd |
| Mr. | Torrecilla | Joaquin | ETSI | Keysight Technologies UK Ltd |
| Ms. | Trakinat | Jean | ATIS | T-Mobile USA Inc. |
| Mr. | Trygar | Tobey | ATIS | Perspecta Labs Inc. |
| Dr. | Tsiatsis | Vlasios | ETSI | Ericsson Japan K.K. |
| Mrs. | Vahidi | Helena | ETSI | Ericsson LM |
| Ms. | Villebrun | Emmanuelle | ETSI | Ministère Economie et Finances |
| Mr. | Vujcic | Dragan | ETSI | IDEMIA |
| Dr. | Wan | Tao | ETSI | CableLabs |
| Mrs. | wang | haimei |  | CAICT |
| Miss | Wang | Tzu-ya | ETSI | III |
| Mr. | Whorlow | Colin | ETSI | HOME OFFICE |
| Ms. | Wifvesson | Monica | ETSI | Ericsson LM |
| Mr. | Wong | Marcus | ETSI | Futurewei |
| Mr. | Woodward | Tim | ETSI | Motorola Solutions Danmark A/S |
| Ms. | Xing | Zhen | ETSI | ZTE Wistron Telecom AB |
| Mr. | xu | sen | ETSI | China Telecommunications |
| Miss | Xu | Sijia | CCSA | China Mobile Com. Corporation |
| Mr. | Yoo | Mike | ATIS | Johns Hopkins University APL |
| Mr. | You | Shilin | CCSA | ZTE Corporation |
| Dr. | Zhang | Bo | ETSI | HUAWEI TECHNOLOGIES Co. Ltd. |
| Miss | Zhang | Wanqiao | CCSA | Qihoo 360 |
| Mr. | Zhou | Wei | CCSA | CATT |
| Mr. | Zhu | Chunhui | CCSA | Spreadtrum Communications |
| Dr. | Zugenmaier | Alf | TTC | NTT DOCOMO INC. |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#101e | 2020-11-09 | 2020-11-20 | Online |  | S3-101e |
|  |  |  |  |  |  |