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

**Meeting Report  
for  
TSG SA WG3  
meeting: 122**

**Fukuoka, Japan, 19/05/2025 to 23/05/2025**

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## 1 Agenda and Meeting Objectives

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

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

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

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

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

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

Alf (NTT-Docomo) gave the speech on behalf of TTC/ARIB to welcome delegates to the beautiful city of Fukuoka.

**S3-251810 Agenda**

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

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

**S3-251812 Process for SA3#122**

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

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

**S3-251813 Detailed agenda planning**

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

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

## 2 Meeting Reports

### 2.1 Previous SA3 meeting report/s and SA report

**S3-251811 Report from SA3#121**

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

**Decision:** The document was **revised to S3-252105**.

**S3-252105 Report from SA3#121**

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

(Replaces S3-251811)

**Abstract:**

Change in Thales comment for Tdoc S3-251316

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

### 2.2 SA3-LI Report

Alex (GSMA) gave a short report on SA3-LI activities:

- SCAS work on the way: CRs sent to the reflector.

## 3 Reports and Liaisons from other Groups

### 3.1 Reports and Liaisons

**S3-251815 LS on Device Subscription Data**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2501242*

**Decision:** The document was **replied to in S3-252259**.

**S3-251992 reply LS on Device Subscription Data**

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

**Decision:** The document was **revised to S3-252259**.

**S3-252259 reply LS on Device Subscription Data**

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

(Replaces S3-251992)

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

**S3-252035 LS reply on Device Subscription Data**

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

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

**S3-251817 LS on the scope attribute of the access token standard claims**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-251112*

**Decision:** The document was **replied to in S3-252260**.

**S3-251968 Reply LS to SA5 on token scope**

*Type: LS out For: Approval  
 to SA5, cc CT3, SA6  
 Source: Huawei, HiSilicon*

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

**S3-251818 Reply LS on secure storage and processing of credentials for AIoT**

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

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

**S3-252034 Reply to: Reply LS on secure storage and processing of credentials for AIoT**

*Type: LS out For: Approval  
 to ETSI TC SET  
 Source: Nokia*

**Discussion:**

ORANGE: not prepared to answer the LS of SET. We need to progress our TS to provide proper answers.There is a related LS to RAN1 that could help. It was decided to keep it open.

Huawei supported this LS.

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

**S3-251819 Reply LS on including the HPLMN ID in the PC5 discovery messages for 5G ProSe UE-to-UE relay**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-252256*

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

**S3-251828 LS on Management of secure backhaul for NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-251990*

**Discussion:**

Nokia commented that there was no need to reply to this LS.

Huawei argued that security work had to be done exclusively in SA3, not a good working practice to do security work in another WG. Security requirement and security solutions must be done in SA3.

Ericsson: this is about managing aspects, not in SA3's scope.

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

**S3-251969 Reply LS on Management of secure backhaul for NTN**

*Type: LS out For: Approval  
 to SA5  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson and Nokia objected to this LS.

Huawei commented that they may raise this issue in Plenary given that the CRs were sent there for approval.

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

**S3-251832 LS on Towards a common definition of Zero Trust**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T Study Group 17*

**Decision:** The document was **replied to in S3-252261**.

**S3-252225 LS reply on a common definition of Zero Trust**

*Type: LS out For: Approval  
 to ITU-T Study Group 17  
 Source: MITRE-FFRDC*

**Decision:** The document was **revised to S3-252261**.

**S3-252261 LS reply on a common definition of Zero Trust**

*Type: LS out For: Approval  
 to ITU-T Study Group 17  
 Source: Nokia*

(Replaces S3-252225)

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

**S3-251842 O-RAN ALLIANCE – 3GPP collaboration on PQC**

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

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

**S3-251970 Reply LS on 3GPP collaboration on PQC**

*Type: LS out For: Approval  
 to O-RAN ALLIANCE  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia, Ericsson: let's wait for advance of PQC work.

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

**S3-252256 LS to 3GPP about the external data channel content access requirements**

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

**Discussion:**

Ericsson: no key issue about this in SA3.

The Chair asked how 3GPP could authenticate this if this is external.

NTT-Docomo, Qualcomm: response that there is nothing now in SA3. CMCC supported this.

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

**S3-252257 LS from GSMA TSG IMSDCAS to 3GPP SA3 on the data channel security study and the security requirements**

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

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

**S3-251839 LS on establishment of a new work item Technical Report ITU-T TR.FMSC-IMT2030 “Security technologies of fixed, mobile and satellite convergence for IMT-2030 networks”**

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

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

**S3-251840 LS on the establishment of a new work item ITU-T X.s-isac “Security guidelines for integrated sensing and communication in IMT-2020 networks and beyond”**

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

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

**S3-251841 LS on the establishment of a new work item ITU-T X.uc-zt-5g “Security threats associated with use cases for applying zero trust to IMT-2020 private network deployments”**

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

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

**S3-251837 TCG progress - report from TCG rapporteur**

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

**Abstract:**

This contribution provides a brief incremental summary of the progress in TCG Working Groups as of May 2025.

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

**S3-251820 LS on feedback for IMS resiliency study**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-251492*

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

**S3-251822 LS on AI/ML UE sided data collection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2503168*

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

**S3-251823 Reply LS on signalling feasibility of dataset and parameter sharing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2503169*

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

**S3-251830 LS on LP-WUS subgrouping progress**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2503182*

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

**S3-251826 LS on AIoT device identifier length**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2504296*

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

**S3-251827 Reply LS on OSAppID usage by AppToken use case**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2504468*

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

**S3-251843 LS on LI requirements on IMS Data Channel**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i250185*

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

**S3-252258 LS on the creation of the Getting Ready for Energy-Efficient Networking**

**Working Group in the IETF**

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

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

### 3.2 Follow up topics from LSs

**S3-251831 Reply LS to S3-251226 LS on the scope attribute of the access token standard claims**

*Type: LS out For: Approval  
 to SA5, cc CT3, SA6  
 Source: Nokia*

(Replaces S3-251671)

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

**S3-252255 Update proposal to S3-251831**

*Type: LS out For: (not specified)  
 to SA5, cc CT3, SA6  
 Source: Nokia*

**Decision:** The document was **revised to S3-252260**.

**S3-252260 Reply to: LS on the scope attribute of the access token standard claims**

*Type: LS out For: -  
 to SA5, cc CT3, SA6  
 Source: Nokia*

(Replaces S3-252255)

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

## 4 Work areas

### 4.1 Maintenance (Rel-15/16/17/18/19)

#### 4.1.1 Security Assurance

#### 4.1.2 Service Based Architecture

**S3-251834 Living document for TEI19: Token-based authorization for indirect communication scenarios when NF is selected at target PLMN**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

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

**S3-251835 Token-based authorization for indirect communication scenarios when NF is selected at target PLMN**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2135 Cat: B (Rel-19)  
  
 Source: Ericsson, Nokia*

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

**S3-252139 Discussion on the NF consumer PLMN ID check**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-252140 Checking PLMNID of NF Service Consumer in interconnect scenario**

*Type: CR For: Agreement  
 33.501 v17.14.0 CR-2142 Cat: F (Rel-17)  
  
 Source: Ericsson, Nokia Nokia Shanghai Bell*

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

**S3-252141 Checking PLMNID of NF Service Consumer in interconnect scenario**

*Type: CR For: Agreement  
 33.501 v18.9.0 CR-2143 Cat: A (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

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

**S3-252142 Checking PLMNID of NF Service Consumer in interconnect scenario**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2144 Cat: A (Rel-19)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

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

**S3-252143 LS on Checking PLMNID of NFc in interconnect scenario**

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

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

**S3-252144 LS on PLMN ID checks in interconnect scenarios when NFc supports multiple PLMN IDs**

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

**Decision:** The document was **revised to S3-252264**.

**S3-252264 LS on PLMN ID checks in interconnect scenarios when NFc supports multiple PLMN IDs**

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

(Replaces S3-252144)

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

**S3-252254 Clarification on verification of NFc for discovery in roaming scenario**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2151 Cat: F (Rel-19)  
  
 Source: MITRE-FFRDC*

**Discussion:**

Ericsson: the check is not mandatory in non-roaming scenario; it is strange that it is mandatory in roaming scenario. It should always be mandatory.

**Decision:** The document was **revised to S3-252421**.

**S3-252421 Clarification on verification of NFc for discovery in roaming scenario**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2151 rev 1 Cat: F (Rel-19)  
  
 Source: MITRE-FFRDC,Nokia*

(Replaces S3-252254)

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

**S3-252237 Implementation correction of CR2040**

*Type: CR For: (not specified)  
 33.501 v19.2.0 CR-2150 Cat: F (Rel-19)  
  
 Source: Nokia*

**Discussion:**

Ericsson: don’t add other changes not related to the implementation correction.

**Decision:** The document was **revised to S3-252265**.

**S3-252265 Implementation correction of CR2040**

*Type: CR For: -  
 33.501 v19.2.0 CR-2150 rev 1 Cat: F (Rel-19)  
  
 Source: Nokia*

(Replaces S3-252237)

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

#### 4.1.3 Security Aspects of Proximity based services in 5GS ProSe

#### 4.1.4 Mission Critical

#### 4.1.5 Authentication and key management for applications based on 3GPP credential in 5G

**S3-251934 Add clause 6.3 in the Kaf derivation descriptions - R17**

*Type: CR For: Agreement  
 33.535 v17.11.0 CR-0231 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**S3-251935 Add clause 6.3 in the Kaf derivation descriptions - R18Mirror**

*Type: CR For: Agreement  
 33.535 v18.7.0 CR-0232 Cat: A (Rel-18)  
  
 Source: ZTE*

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

**S3-252014 Update service disabling procedure**

*Type: CR For: Agreement  
 33.535 v18.7.0 CR-0233 Cat: F (Rel-18)  
  
 Source: China Mobile, ZTE*

**Decision:** The document was **revised to S3-252393**.

**S3-252393 Update service disabling procedure**

*Type: CR For: Agreement  
 33.535 v18.7.0 CR-0233 rev 1 Cat: F (Rel-18)  
  
 Source: China Mobile, ZTE*

(Replaces S3-252014)

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

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

#### 4.1.7 Security Aspects of Enhancements for 5G Multicast-Broadcast Services

#### 4.1.8 Security for enhanced support of Industrial IoT

#### 4.1.9 Security Aspects of eNPN

#### 4.1.10 Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-251936 update to AKMA based mechanism**

*Type: CR For: Agreement  
 33.558 v19.0.0 CR-0022 Cat: F (Rel-19)  
  
 Source: ZTE Corporation*

**Discussion:**

Nokia: this should be an additional approach, but we don’t agree with removing the current approach.

Ericsson:

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

#### 4.1.11 Security aspects of Uncrewed Aerial Systems

#### 4.1.12 Security Aspects of Ranging Based Services and Sidelink Positioning

#### 4.1.13 Security Aspects of eNA.

#### 4.1.14 Modified PRINS for roaming service providers in 5G

#### 4.1.15 All other maintenance topics (not listed above or below)

**S3-251872 ZUC number of initialisation rounds**

*Type: CR For: Approval  
 35.246 v18.0.0 CR-0001 Cat: F (Rel-19)  
  
 Source: Nokia*

**Discussion:**

Qualcomm: we shouldn’t have approved this in Rel-18, it should have been published once companies can actually access it.

**Decision:** The document was **revised to S3-252266**.

**S3-252266 ZUC number of initialisation rounds**

*Type: CR For: Approval  
 35.246 v18.0.0 CR-0001 rev 1 Cat: F (Rel-19)  
  
 Source: Nokia*

(Replaces S3-251872)

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

**S3-251884 Correction to f5\*\* description**

*Type: CR For: Agreement  
 33.102 v19.0.0 CR-0286 Cat: F (Rel-19)  
  
 Source: Thales, Ericsson*

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

**S3-251889 AIMLE Security Alignment**

*Type: CR For: Approval  
 33.434 v18.2.0 CR-0021 Cat: B (Rel-19)  
  
 Source: Lenovo*

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

**S3-251998 Clarification for CMP over TLS**

*Type: CR For: Agreement  
 33.310 v18.6.0 CR-0211 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-252267**.

**S3-252267 Clarification for CMP over TLS**

*Type: CR For: Agreement  
 33.310 v18.6.0 CR-0211 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-251998)

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

**S3-251999 Clarification for certificate lifecycle management**

*Type: CR For: Agreement  
 33.310 v19.3.1 CR-0212 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia, Ericsson didn’t see the need for this change.

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

**S3-252000 Discussion paper for certificate lifecycle management**

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

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

**S3-252002 Clarification for CMP over TLS**

*Type: CR For: Agreement  
 33.310 v19.3.1 CR-0213 Cat: A (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-252268**.

**S3-252268 Clarification for CMP over TLS**

*Type: CR For: Agreement  
 33.310 v19.3.1 CR-0213 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-252002)

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

**S3-252101 Removal of the terminology “AS root key”**

*Type: CR For: (not specified)  
 33.501 v19.2.0 CR-2138 Cat: F (Rel-19)  
  
 Source: Apple, NTT DOCOMO, Qualcomm Incorporated*

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

**S3-252115 Changing DC to Data Channel**

*Type: CR For: Approval  
 33.328 v18.3.0 CR-0081 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: just add the abbreviation DC in the abbreviations clause.

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

**S3-252145 New JWS profiles for CCA tokens and access tokens**

*Type: CR For: Discussion  
 33.210 v19.0.0 CR-0086 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

Ericsson commented that this CR was submitted for discussion, not for agreement.

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

**S3-252155 Fix issues on SEAL security framework**

*Type: CR For: Agreement  
 33.434 v18.2.0 CR-0022 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson didn’t find this agreable.

MCC: clauses affected must be added:5.2.4, 5.2.5

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

**S3-252180 Correcting inconsistencies to clause 6.2.3 of 33.210**

*Type: CR For: Agreement  
 33.210 v19.0.0 CR-0087 Cat: F (Rel-19)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-252394**.

**S3-252394 Correcting inconsistencies to clause 6.2.3 of 33.210**

*Type: CR For: Agreement  
 33.210 v19.0.0 CR-0087 rev 1 Cat: F (Rel-19)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-252180)

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

**S3-252183 Multiple Editorial corrections**

*Type: CR For: Agreement  
 33.501 v18.9.0 CR-2146 Cat: F (Rel-18)  
  
 Source: Nokia*

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

**S3-252184 Multiple Editorial correction**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2147 Cat: A (Rel-19)  
  
 Source: Nokia*

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

**S3-252189 Making NF type as pre-registered parameter in CA/RA for IAK method**

*Type: CR For: Agreement  
 33.310 v19.3.1 CR-0214 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S3-252211 Issues about user consent for exposure and a proposal to address them**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Discussion:**

Vivo: this causes problems in stage 3.

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

**S3-252212 Clarification of the intended applicability and requirements for Annex V**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2148 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-252269**.

**S3-252269 Clarification of the intended applicability and requirements for Annex V**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2148 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson*

(Replaces S3-252212)

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

**S3-252220 Clarification on client credential flow – Rel-18**

*Type: CR For: Agreement  
 33.122 v18.4.0 CR-0101 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia: don’t update this until we finish the discussions in CAPIF phase 3.

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

**S3-252221 Clarification on client credential flow**

*Type: CR For: Agreement  
 33.122 v19.0.0 CR-0102 Cat: A (Rel-19)  
  
 Source: Ericsson*

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

**S3-252230 Clarification on naming of purposes for user consent**

*Type: CR For: Approval  
 33.501 v17.14.0 CR-2149 Cat: F (Rel-17)  
  
 Source: Nanjing vivo Software Tech.*

**Discussion:**

Ericsson didn’t agree with this CR.

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

### 4.2 5G Security Assurance Specification (SCAS) for the Unified Data Repository (UDR).

### 4.3 SCAS for Rel-18 features on existing functions.

### 4.4 5G Security Assurance Specification (SCAS) for the Short Message Service Function (SMSF).

### 4.5 Addition of 256-bit security Algorithms.

### 4.6 Mission critical security enhancements for release 19

**S3-251866 [33.180] Alignment of Logging Recording and Audit**

*Type: CR For: Agreement  
 33.180 v19.1.0 CR-0220 Cat: F (Rel-19)  
  
 Source: Airbus*

**Decision:** The document was **revised to S3-252348**.

**S3-252348 [33.180] Alignment of Logging Recording and Audit**

*Type: CR For: Agreement  
 33.180 v19.1.0 CR-0220 rev 1 Cat: F (Rel-19)  
  
 Source: Airbus*

(Replaces S3-251866)

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

**S3-252008 Clarification about security for MC over IOPS**

*Type: CR For: Agreement  
 33.180 v19.1.0 CR-0221 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Motorola: this is adding a feature that is not present in the specification. It should be cat-B. Add it to Rel-20 given that the new mission critical is bringing IOPS in Rel-20.

Huawei: make it cat-B.and TEI19.

ORANGE: no IOPS for 5G core in SA3.

Huawei clarified that this CR was enough for Rel-19, but Motorola didn’t agree.

This was taken offline.

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

### 4.7 Addition of Milenage-256 algorithm

### 4.8 3GPP profiles for cryptographic algorithms and security protocols

### 4.9 Security aspects of the 5GMSG Service phase 3

### 4.10 R19 SCAS WID

**S3-251821 LS to 3GPP SA3 re Adoption of TS 33.520, 33.528, 33.529, 33.530 and 33.537 as NESAS SCASes**

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

**Decision:** The document was **replied to in S3-252325**.

**S3-252114 Reply LS on adoption of newly published 3GPP SCASes**

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

**Decision:** The document was **revised to S3-252325**.

**S3-252325 Reply LS on adoption of newly published 3GPP SCASes**

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

(Replaces S3-252114)

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

**S3-251844 Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF**

*Type: CR For: Agreement  
 33.926 v19.3.0 CR-0105 Cat: B (Rel-19)  
  
 Source: MCC*

**Abstract:**

This CR was approved in SA#103 (CR0092r1) but not implemented. Resubmitted to correct the mistake.

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

**S3-251846 Minor editorial corrections and clean-up**

*Type: CR For: Approval  
 33.529 v19.0.0 CR-0002 Cat: F (Rel-19)  
  
 Source: IIT Bombay*

**Discussion:**

MCC:

Clauses affected missing on the cover page.

Category should be F.

Clauses shown are not complete.

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

**S3-251847 Correction of test names and clean up of 33.117**

*Type: CR For: Approval  
 33.117 v19.1.0 CR-0213 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-252320**.

**S3-252320 Correction of test names and clean up of 33.117**

*Type: CR For: Approval  
 33.117 v19.1.0 CR-0213 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-251847)

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

**S3-251848 Clean up and correction of test names in 33.216**

*Type: CR For: Approval  
 33.216 v19.0.0 CR-0033 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-252321**.

**S3-252321 Clean up and correction of test names in 33.216**

*Type: CR For: Approval  
 33.216 v19.0.0 CR-0033 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-251848)

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

**S3-251849 Addition of test names and Clean up of 33.511**

*Type: CR For: Approval  
 33.511 v19.1.0 CR-0086 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-252322**.

**S3-252322 Addition of test names and Clean up of 33.511**

*Type: CR For: Approval  
 33.511 v19.1.0 CR-0086 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-251849)

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

**S3-251850 Correction of test names and clean up of 33.513**

*Type: CR For: Approval  
 33.513 v18.1.0 CR-0015 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251851 Clean up of 33.514**

*Type: CR For: Approval  
 33.514 v19.0.0 CR-0034 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251852 Correction of test names and clean up of 33.515**

*Type: CR For: Approval  
 33.515 v18.1.0 CR-0012 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251853 Addition of test name and clean up of 33.517**

*Type: CR For: Approval  
 33.517 v18.0.0 CR-0013 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251854 Clean up of 33.523**

*Type: CR For: Approval  
 33.523 v19.1.0 CR-0012 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251855 Clean up of 33.527 and correction of test names**

*Type: CR For: Approval  
 33.527 v18.3.0 CR-0008 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251856 Clean up of 33.529**

*Type: CR For: Approval  
 33.529 v19.0.0 CR-0003 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-251857 Correction of test case and clean up of 33.512**

*Type: CR For: Approval  
 33.512 v18.2.0 CR-0045 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-252323**.

**S3-252323 Correction of test case and clean up of 33.512**

*Type: CR For: Approval  
 33.512 v18.2.0 CR-0045 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-251857)

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

**S3-251858 Living Document to 33.512 AMF**

*Type: draftCR For: Approval  
 33.512 v18.2.0  
 Source: BSI (DE), Montsecure*

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

**S3-251867 Minor editorial modification**

*Type: CR For: (not specified)  
 33.926 v19.3.0 CR-0106 Cat: F (Rel-19)  
  
 Source: IIT Bombay*

**Abstract:**

Minor editorial modification in TS 33.926

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

**S3-251899 Wrong test steps for IPSec testing in N2/Xn**

*Type: CR For: Approval  
 33.511 v19.1.0 CR-0087 Cat: F (Rel-19)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Rewrite the test case in 33.511 to check the messages transmitted in the interface, and check if the IPSec is fully enabled for them.

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

**S3-251924 Correction of TC on replay protection**

*Type: CR For: Approval  
 33.511 v19.1.0 CR-0088 Cat: F (Rel-19)  
  
 Source: MITRE-FFRDC*

**Abstract:**

Correct the TC language to require all three replay detection mechanisms, rather than any one detection mechanism.

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

**S3-251937 Add PCAP traces in clause 4.2.2.1**

*Type: CR For: Agreement  
 33.537 v18.2.0 CR-0006 Cat: F (Rel-19)  
  
 Source: ZTE*

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

**S3-252116 Solving issues to TS 33.529 according to LS from GSMA NESASG**

*Type: CR For: Approval  
 33.529 v19.0.0 CR-0004 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-252319**.

**S3-252319 Solving issues to TS 33.529 according to LS from GSMA NESASG**

*Type: CR For: Approval  
 33.529 v19.0.0 CR-0004 rev 1 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-252116)

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

**S3-252119 Solving the improvement point to TS 33.537 according to LS from GSMA NESASG**

*Type: CR For: Approval  
 33.537 v18.2.0 CR-0007 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-252324**.

**S3-252324 Solving the improvement point to TS 33.537 according to LS from GSMA NESASG**

*Type: CR For: Approval  
 33.537 v18.2.0 CR-0007 rev 1 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-252119)

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

### 4.11 TEI19 topics (restricted to agreed topics only)

**S3-251836 Living document for TEI19: Public key distribution and Issuer claim verification of the Access Token**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, NCSC*

**Decision:** The document was **revised to S3-252270**.

**S3-252270 Living document for TEI19: Public key distribution and Issuer claim verification of the Access Token**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, NCSC*

(Replaces S3-251836)

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

**S3-252422 Public key distribution and Issuer claim verification of the Access Token**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2152 Cat: B (Rel-19)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, NCSC*

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

**S3-252146 Public key distribution service support both raw key and certificate**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson, NCSC, KDDI, AT&T, BT, Deutsche Telekom, Huawei, Samsung*

**Decision:** The document was **revised to S3-252271**.

**S3-252271 Public key distribution service support both raw key and certificate**

*Type: other For: Approval  
 33.501 v19.2.0  
 Source: Ericsson, NCSC, KDDI, AT&T, BT, Deutsche Telekom, Huawei, Samsung*

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

**S3-252229 Updates to key retrieval service**

*Type: other For: (not specified)  
 Source: Nokia*

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

**S3-252147 OAuth Tokens for NF Type level access**

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

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

**S3-252148 WID on Public key distribution and Issuer claim verification of the Access Token**

*Type: WID new For: Agreement  
 Source: Ericsson, NCSC, Huawei, AT&T, Deutsche Telekom, BT*

**Decision:** The document was **revised to S3-252397**.

**S3-252397 WID on Public key distribution and Issuer claim verification of the Access Token**

*Type: WID new For: Agreement  
 Source: Ericsson, NCSC, Huawei, AT&T, Deutsche Telekom, BT,Nokia*

(Replaces S3-252148)

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

**S3-252001 Discussion paper of the certificate identifier for public key distribution**

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

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

### 4.12 Security aspects of NR mobility enhancement Phase 4

**S3-251824 Reply LS for Reply LS on security handling for inter-CU LTM in non-DC cases**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-252449*

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

**S3-251930 Security mechanism and procedures for inter-CU LTM in non-DC**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: OPPO*

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

**S3-251939 Update security machanism and procedures for inter-CU LTM**

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

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

**S3-251988 Updates for the handling of mismatched UE security context handling in non-DC cases**

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

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

**S3-251989 Updates for the NCC transmission in LTM procedure**

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

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

**S3-251990 security handling where CU is acting as MN and SN is unchanged**

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

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

**S3-252017 Procedure for security handling for LTM**

*Type: other For: Approval  
 Source: vivo*

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

**S3-252054 Security procedure for inter-CU LTM**

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

**Decision:** The document was **revised to S3-252272**.

**S3-252272 Security procedure for inter-CU LTM**

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

(Replaces S3-252054)

**Discussion:**

Living document for LTM. This is the final version. It was agreed that the CR will not contain the Annex.

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

**S3-252071 Security Handling for inter-CU LTM**

*Type: other For: Approval  
 33.501 v..  
 Source: Xiaomi EV Technology*

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

**S3-252104 LTM - Security procedures**

*Type: other For: (not specified)  
 Source: Apple*

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

**S3-252187 Security mechanism and procedure for inter-CU-LTM**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: LG Electronics*

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

**S3-251938 Update conclusion for KI#1**

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

**Decision:** The document was **revised to S3-252284**.

**S3-252284 Update conclusion for KI#1**

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

(Replaces S3-251938)

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

**S3-252103 LTM - Conclusions**

*Type: other For: (not specified)  
 Source: Apple*

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

**S3-252188 Conclusion update for Key issue #1**

*Type: other For: Approval  
 Source: LG Electronics*

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

**S3-251991 Reply LS on security handling for inter-CU LTM in non-DC cases**

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

**Decision:** The document was **revised to S3-252398**.

**S3-252398 Reply LS on security handling for inter-CU LTM in non-DC cases**

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

(Replaces S3-251991)

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

**S3-252070 Reply LS on security handling for inter-CU LTM in non-DC cases**

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

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

**S3-252053 Living document on NR mobility enhancement**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-252285**.

**S3-252285 Living document on NR mobility enhancement**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: Samsung*

(Replaces S3-252053)

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

**S3-252423 Security procedure for inter-CU LTM**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2153 Cat: B (Rel-19)  
  
 Source: Samsung*

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

### 4.13 Security for mobility over non-3GPP access to avoid full primary authentication

### 4.14 Security for MonStra

### 4.15 Security Aspects of Proximity Based Services in 5GS Phase 3

**S3-252009 Fix the figures of CP-based multi-hop U2NW link setup**

*Type: CR For: Agreement  
 33.503 v19.0.0 CR-0219 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

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

**S3-252010 Clarification and editorial for multi-hop Relay scenarios**

*Type: CR For: Agreement  
 33.503 v19.0.0 CR-0220 Cat: D (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-252273**.

**S3-252273 Clarification and editorial for multi-hop Relay scenarios**

*Type: CR For: Agreement  
 33.503 v19.0.0 CR-0220 rev 1 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-252010)

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

**S3-252131 Discussion paper on security of ProSe in SNPN**

*Type: discussion For: (not specified)  
 Source: China Telecom Corporation Ltd.,Nokia, Nokia Shanghai Bell*

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

**S3-252132 Add note for security of prose in npns**

*Type: CR For: (not specified)  
 33.503 v19.0.0 CR-0221 Cat: F (Rel-19)  
  
 Source: China Telecom, Nokia, Nokia Shanghai Bell*

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

**S3-252171 Addressing the Editor’s Notes in multi-hop U2N relay discovery security**

*Type: CR For: Agreement  
 33.503 v19.0.0 CR-0216 rev 2 Cat: C (Rel-19)  
  
 Source: Qualcomm Incorporated, Huawei, HiSilicon, China Telecom, Beijing Xiaomi, InterDigital*

(Replaces S3-251793)

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

### 4.16 Security aspects of 5G NR Femto

**S3-252011 Clarification to clause 4.1**

*Type: CR For: Agreement  
 33.545 v19.0.0 CR-0017 Cat: F (Rel-19)  
  
 Source: Huawei, Hisilicon,Nokia, ZTE*

**Decision:** The document was **revised to S3-252274**.

**S3-252274 Clarification to clause 4.1**

*Type: CR For: Agreement  
 33.545 v19.0.0 CR-0017 rev 1 Cat: F (Rel-19)  
  
 Source: Huawei, Hisilicon,Nokia, ZTE*

(Replaces S3-252011)

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

### 4.17 Security Aspects of Enhancement of Support for Edge Computing in 5GC — phase 3

### 4.18 Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA)

**S3-251863 Living document for Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA)**

*Type: draftCR For: Approval  
 33.310 v19.3.1  
 Source: Cisco Systems, Huawei, US National Security Agency, Charter Communications, Google, Johns Hopkins University APL*

**Abstract:**

This living draft-CR specifies security procedures and protocols for automated certificate management for 5G Core Network Functions using ACME.

**Decision:** The document was **revised to S3-252275**.

**S3-252275 Living document for Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA)**

*Type: draftCR For: Approval  
 33.310 v19.3.1  
 Source: Cisco Systems, Huawei, US National Security Agency, Charter Communications, Google, Johns Hopkins University APL*

(Replaces S3-251863)

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

**S3-251901 IANA registrations**

*Type: other For: Approval  
 33.310 v..  
 Source: Cisco Systems*

**Abstract:**

This pCR provides the information for the IANA registrations for the Annex YY (informative): Certificate management for 5GC NFs using ACME. In doing so, it addresses the Editor's note in clause YY.3.3.2 of draft-CR S3-251863.

**Discussion:**

Huawei didn’t agree with incluing this information in the TS. This wasn’t an issue of the procedure.This was taken offline.

**Decision:** The document was **revised to S3-252399**.

**S3-252399 IANA registrations**

*Type: other For: Approval  
 33.310 v..  
 Source: Cisco Systems*

(Replaces S3-251901)

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

**S3-251902 Acquiring an authority token**

*Type: other For: Approval  
 33.310 v..  
 Source: Cisco Systems*

**Abstract:**

This pCR clarifies the secure process used by the NF to acquire a NF Certificate Authority Token from the OAM. Clause YY.2.1 includes the following, "It is assumed that the 5G NF has an authenticated channel to the OAM (e.g., established using an OAM-issu

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

**S3-252400 Automatic certificate management (ACME) for the Service Based Architecture (SBA)**

*Type: CR For: Agreement  
 33.310 v19.3.1 CR-0215 Cat: B (Rel-19)  
  
 Source: Cisco*

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

### 4.19 Security Aspects of 5G Satellite Access Phase 3

**S3-252118 Living document for security aspects of 5G satellite access phase 3**

*Type: draftCR For: Approval  
 33.401 v18.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-252277**.

**S3-252277 Living document for security aspects of 5G satellite access phase 3**

*Type: draftCR For: Approval  
 33.401 v18.3.0  
 Source: CATT*

(Replaces S3-252118)

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

**S3-252424 Security aspects of 5G satellite access**

*Type: CR For: Approval  
 33.401 v18.3.0 CR-0727 Cat: B (Rel-19)  
  
 Source: CATT*

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

**S3-252106 Living document to TS 33.401 for adding abbreviations and definitions**

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

**Decision:** The document was **revised to S3-252276**.

**S3-252276 Living document to TS 33.401 for adding abbreviations and definitions**

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

(Replaces S3-252106)

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

**S3-252110 Update the Security aspects of Full EPC in each satellite**

*Type: other For: (not specified)  
 33.401 v..  
 Source: China Telecom Corporation Ltd.*

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

**S3-252127 Update security aspects of Full EPC in each satellite**

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

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

**S3-252156 Removing normative phrasing by referring to SA2 text**

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

**Discussion:**

Philips had concerns with this.

Qualcomm: currently it is a problematic wording for SA2. SA2 makes the decision that the NAS security will be there, it's an architectural decision to be taken by them. Thales supported Qualcomm.

Nokia summarised the issue:

Keep the NOTE --> text should be informative.

Change the NOTE --> text can be normative.

**Decision:** The document was **revised to S3-252401**.

**S3-252401 Removing normative phrasing by referring to SA2 text**

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

(Replaces S3-252156)

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

**S3-252228 pCR against living draft CR on S&F**

*Type: draftCR For: Approval  
 33.401 v18.3.0  
 Source: THALES*

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

**S3-251964 A summary report from offline calls for Rel-19 WI on 5GSAT\_Ph3\_SEC**

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

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

**S3-252117 Discussion on resolving EN in annex of Split MME by implementation**

*Type: discussion For: Approval  
 33.401 v..  
 Source: Huawei, HiSilicon*

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

**S3-252007 Resolving EN in Annex of split MME by implementation**

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

**Decision:** The document was **revised to S3-252278**.

**S3-252278 Resolving EN in Annex of split MME by implementation**

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

(Replaces S3-252007)

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

**S3-252080 Addressing EN in store and forward satellite operation**

*Type: other For: Approval  
 33.401 v..  
 Source: Xiaomi Technology*

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

**S3-252120 Remove the EN about DDoS attack**

*Type: other For: (not specified)  
 33.401 v..  
 Source: China Telecom Corporation Ltd.*

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

**S3-252122 Way forward for DoS attack topic**

*Type: discussion For: Endorsement  
 33.401 v..  
 Source: CATT*

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

**S3-252126 Update security aspects of Split MME architecture**

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

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

**S3-252157 Proposal for DDoS editor’s note resolution**

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

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

**S3-251903 Security Environment, Living document for security aspects of 5G satellite access phase 3**

*Type: draftCR For: Agreement  
 33.401 v18.3.0  
 Source: InterDigital Finland Oy, Samsung, T-Mobile USA*

**Abstract:**

This Draft CR adds a new clause, "Security environment on board the satellite."

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

**S3-252043 DoS attack remediation in S&F operation**

*Type: other For: Approval  
 33.401 v..  
 Source: Samsung, Johns Hopkins University Applied Physics Lab, Philips, Intel, Interdigital*

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

### 4.20 UAS security enhancements Phase 3

**S3-252055 Adding support for multiple USSs**

*Type: CR For: Agreement  
 33.256 v19.0.0 CR-0053 Cat: B (Rel-19)  
  
 Source: Qualcomm Incorporated, InterDigital, Ericsson, Huawei*

**Decision:** The document was **revised to S3-252314**.

**S3-252314 Adding support for multiple USSs**

*Type: CR For: Agreement  
 33.256 v19.0.0 CR-0053 rev 1 Cat: B (Rel-19)  
  
 Source: Qualcomm Incorporated, InterDigital, Ericsson, Huawei*

(Replaces S3-252055)

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

**S3-251971 SA2 on UUAA during USS changeover**

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

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

**S3-252185 LS on USS changeover procedure**

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

**Decision:** The document was **revised to S3-252263**.

**S3-252263 LS on USS changeover procedure**

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

(Replaces S3-252185)

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

### 4.21 Security aspects of 5G Mobile Metaverse services

**S3-251941 resolving EN for Authentication and authorization for spatial localization services**

*Type: other For: Approval  
 33.434 v..  
 Source: ZTE Corporation*

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

**S3-251940 resolving EN for Authentication and authorization for digital asset services**

*Type: other For: Approval  
 33.434 v..  
 Source: ZTE Corporation*

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

**S3-252073 Correction on the Authorization of DA services using CAPIF**

*Type: other For: Approval  
 33.434 v..  
 Source: Xiaomi EV Technology*

**Decision:** The document was **revised to S3-252315**.

**S3-252315 Correction on the Authorization of DA services using CAPIF**

*Type: other For: Approval  
 33.434 v..  
 Source: Xiaomi EV Technology*

(Replaces S3-252073)

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

**S3-252074 Correction on the Authentication of Digital Representation using SEAL**

*Type: other For: Approval  
 33.434 v..  
 Source: Xiaomi EV Technology*

**Decision:** The document was **revised to S3-252317**.

**S3-252317 Correction on the Authentication of Digital Representation using SEAL**

*Type: other For: Approval  
 33.434 v..  
 Source: Xiaomi EV Technology*

(Replaces S3-252074)

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

**S3-251942 resolving EN for Privacy protection for user information exposure**

*Type: other For: Approval  
 33.434 v..  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-252316**.

**S3-252316 resolving EN for Privacy protection for user information exposure**

*Type: other For: Approval  
 33.434 v..  
 Source: ZTE Corporation*

(Replaces S3-251942)

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

**S3-252072 Editor’s Note Resolution for Privacy Protection**

*Type: other For: Approval  
 33.434 v..  
 Source: Xiaomi EV Technology*

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

**S3-252036 Living document on Metaverse\_Sec**

*Type: draftCR For: Approval  
 33.434 v18.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-252318**.

**S3-252318 Living document on Metaverse\_Sec**

*Type: draftCR For: Approval  
 33.434 v18.2.0  
 Source: Samsung*

(Replaces S3-252036)

**Decision:** The document was **revised**.

**S3-252425 Security procedures for mobile metaverse services**

*Type: CR For: Approval  
 33.434 v18.2.0 CR-0023 Cat: B (Rel-19)  
  
 Source: Samsung*

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

### 4.22 Security aspects of CAPIF Phase3

**S3-251870 Living CR on RO authorization**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson*

**Decision:** The document was **revised to S3-252402**.

**S3-252396 CR on RO authorization**

*Type: CR For: Approval  
 33.122 v19.0.0 CR-0104 Cat: B (Rel-19)  
  
 Source: Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson*

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

**S3-251972 KI#1.2 update RO authorization to address EN**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon, Nokia*

**Decision:** The document was **revised to S3-252290**.

**S3-252290 KI#1.2 update RO authorization to address EN**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon, Nokia*

(Replaces S3-251972)

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

**S3-251888 Updates to Living CR on RO authorization**

*Type: other For: Approval  
 33.122 v..  
 Source: Lenovo*

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

**S3-251933 Updates to living Draft CR on RO authorization**

*Type: other For: Approval  
 33.122 v..  
 Source: CATT*

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

**S3-252077 pCR against Living CR on RO management**

*Type: other For: Approval  
 33.122 v..  
 Source: Xiaomi communications*

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

**S3-252216 Updates to the living CR on RO authorization**

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

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

**S3-252219 Clarification on resource owner ID in the token**

*Type: CR For: Agreement  
 33.122 v19.0.0 CR-0100 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

Content is merged into 2290.

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

**S3-252247 RO definition**

*Type: CR For: (not specified)  
 33.122 v19.0.0 CR-0103 Cat: F (Rel-19)  
  
 Source: Nokia, Lenovo*

**Discussion:**

Content is merged in 2290.

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

**S3-252250 Update to S3-251870 on RO management**

*Type: other For: (not specified)  
 33.122 v..  
 Source: Nokia*

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

**S3-251894 Living CR on revocation**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S3-252403**.

**S3-252403 Living CR on revocation**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: China Telecom Corporation Ltd.*

(Replaces S3-251894)

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

**S3-252426 Resource Owner authentication revocation**

*Type: CR For: Approval  
 33.122 v19.0.0 CR-0105 Cat: B (Rel-19)  
  
 Source: China Telecom Corporation Ltd.*

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

**S3-251959 Baseline pCR against Draft CR for KI#1.2 on revocation**

*Type: other For: Approval  
 33.122 v..  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S3-252291**.

**S3-252291 Baseline pCR against Draft CR for KI#1.2 on revocation**

*Type: other For: Approval  
 33.122 v..  
 Source: China Telecom Corporation Ltd.*

(Replaces S3-251959)

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

**S3-251931 Addition on revocation procedure**

*Type: other For: Approval  
 33.122 v..  
 Source: CATT*

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

**S3-251945 resolving EN for Resource Owner authentication revocation**

*Type: other For: Approval  
 33.122 v..  
 Source: ZTE Corporation*

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

**S3-251973 KI#1.2 update revocation to address EN**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon*

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

**S3-252040 Resolving Editor's Note in Revocation clause**

*Type: other For: Approval  
 33.122 v..  
 Source: Samsung*

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

**S3-252076 pCR against Living CR on revocation**

*Type: other For: Approval  
 33.122 v..  
 Source: Xiaomi communications*

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

**S3-252218 Updates to the living CR on Revocation**

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

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

**S3-252233 Updates to Living CR on revocation**

*Type: other For: Approval  
 33.122 v..  
 Source: Lenovo*

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

**S3-252252 Update to S3-251894 on revocation**

*Type: other For: (not specified)  
 Source: Nokia*

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

**S3-251845 Living CR on Finer level authorization**

*Type: draftCR For: (not specified)  
 33.122 v19.0.0  
 Source: Nokia, Huawei*

**Decision:** The document was **revised to S3-252404**.

**S3-252404 Living CR on Finer level authorization**

*Type: draftCR For: -  
 33.122 v19.0.0  
 Source: Nokia, Huawei*

(Replaces S3-251845)

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

**S3-252427 Authorization for finer level service API access**

*Type: CR For: -  
 33.122 v19.0.0 CR-0106 Cat: B (Rel-19)  
  
 Source: Nokia, Huawei*

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

**S3-252248 Update to S3-251845 on Finer level of authorization**

*Type: other For: (not specified)  
 33.122 v..  
 Source: Nokia*

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

**S3-251974 KI#1.3 updating text for finer level authorization**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon, Nokia*

**Decision:** The document was **revised to S3-252292**.

**S3-252292 KI#1.3 updating text for finer level authorization**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon, Nokia*

(Replaces S3-251974)

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

**S3-252213 Updates to the living CR on finer level authorization**

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

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

**S3-252232 Updates to Living CR on Finer level of authorization**

*Type: other For: Approval  
 33.122 v..  
 Source: Lenovo*

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

**S3-251890 Living CR on Interconnection**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson*

**Decision:** The document was **revised to S3-252405**.

**S3-252402 Living CR on RO authorization**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson*

(Replaces S3-251870)

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

**S3-252405 Living CR on Interconnection**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-251890)

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

**S3-252428 Security procedures for CAPIF interconnection**

*Type: CR For: Approval  
 33.122 v19.0.0 CR-0107 Cat: B (Rel-19)  
  
 Source: Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson*

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

**S3-252037 Updates to security procedure for CAPIF interconnection**

*Type: other For: Approval  
 33.122 v..  
 Source: Samsung, Xiaomi, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, CATT*

**Decision:** The document was **revised to S3-252293**.

**S3-252293 Updates to security procedure for CAPIF interconnection**

*Type: other For: Approval  
 33.122 v..  
 Source: Samsung, Xiaomi, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, CATT*

(Replaces S3-252037)

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

**S3-251887 Updates to security procedure for CAPIF interconnection**

*Type: other For: Approval  
 33.122 v..  
 Source: Lenovo*

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

**S3-251944 resolving EN for Method 3 TLS with OAuth Token**

*Type: other For: Approval  
 33.122 v..  
 Source: ZTE Corporation*

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

**S3-251943 pCR against draft CR on Authentication and Authorization for CAPIF RNAA interconnection**

*Type: other For: Approval  
 33.122 v..  
 Source: ZTE Corporation*

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

**S3-251960 KI#2 pCR on top of the baseline pCR- interconnect**

*Type: other For: Approval  
 33.122 v..  
 Source: China Telecom Corporation Ltd.*

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

**S3-252038 Resolving EN on API invoker authentication during access token request**

*Type: other For: Approval  
 33.122 v..  
 Source: Samsung*

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

**S3-252039 pCR for authentication and authorization for RNAA in CAPIF interconnection scenario**

*Type: other For: Approval  
 33.122 v..  
 Source: Samsung*

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

**S3-252078 pCR against interconnection baseline**

*Type: other For: Approval  
 33.122 v..  
 Source: Xiaomi communications*

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

**S3-252214 Updates to the baseline document on CAPIF interconnection**

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

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

**S3-252251 Update to S3-251890 on CAPIF-interconnection**

*Type: other For: (not specified)  
 Source: Nokia*

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

**S3-251869 Living CR on Cross UE authorization**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Xiaomi Communications*

**Decision:** The document was **revised to S3-252406**.

**S3-252406 Living CR on Cross UE authorization**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Xiaomi Communications*

(Replaces S3-251869)

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

**S3-252429 Cross UE authorization**

*Type: CR For: Approval  
 33.122 v19.0.0 CR-0108 Cat: B (Rel-19)  
  
 Source: Xiaomi Communications*

(Replaces S3-252406)

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

**S3-252075 pCR against Living CR on Cross UE authorization**

*Type: other For: Approval  
 33.122 v..  
 Source: Xiaomi communications, Nokia*

**Decision:** The document was **revised to S3-252295**.

**S3-252295 pCR against Living CR on Cross UE authorization**

*Type: other For: Approval  
 33.122 v..  
 Source: Xiaomi communications, Nokia*

(Replaces S3-252075)

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

**S3-252215 Updates to the living CR on Cross UE authorization**

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

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

**S3-251868 Living CR on Nested API**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Ericsson, Samsung, Xiaomi, Nokia*

**Decision:** The document was **revised to S3-252407**.

**S3-252407 Living CR on Nested API**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Ericsson, Samsung, Xiaomi, Nokia,CATT*

(Replaces S3-251868)

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

**S3-252430 CR on Nested API**

*Type: CR For: Approval  
 33.122 v19.0.0 CR-0109 Cat: B (Rel-19)  
  
 Source: Ericsson, Samsung, Xiaomi, Nokia,CATT*

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

**S3-252217 Updates to the living CR on Nested API**

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

**Decision:** The document was **revised to S3-252294**.

**S3-252294 Updates to the living CR on Nested API**

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

(Replaces S3-252217)

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

**S3-251932 Updates to living Draft CR on CAPIF nested API**

*Type: other For: Approval  
 33.122 v..  
 Source: CATT*

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

**S3-252041 pCR to update CAPIF nested API authorization procedure**

*Type: other For: Approval  
 33.122 v..  
 Source: Samsung*

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

**S3-252249 Update to S3-251848 on Nested API**

*Type: other For: (not specified)  
 33.122 v..  
 Source: Nokia*

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

**S3-251883 Living CR for Onboarding API Invoker Residing in the UE**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Lenovo, Nokia, Ericsson*

**Decision:** The document was **revised to S3-252408**.

**S3-252408 Living CR for Onboarding API Invoker Residing in the UE**

*Type: draftCR For: Approval  
 33.122 v19.0.0  
 Source: Lenovo, Nokia, Ericsson*

(Replaces S3-251883)

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

**S3-252431 Onboarding API Invoker Residing in the UE**

*Type: CR For: Approval  
 33.122 v19.0.0 CR-0110 Cat: B (Rel-19)  
  
 Source: Lenovo, Nokia, Ericsson*

(Replaces S3-252408)

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

**S3-251885 Discussion paper on Security threats with Onboarding Procedure**

*Type: discussion For: Discussion  
 33.122 v..  
 Source: Lenovo, Motorola Mobility, Nokia*

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

**S3-251886 Onboarding API Invoker Residing in the UE**

*Type: other For: Approval  
 33.122 v..  
 Source: Lenovo, Nokia*

**Decision:** The document was **revised to S3-252311**.

**S3-252311 Onboarding API Invoker Residing in the UE**

*Type: other For: Approval  
 33.122 v..  
 Source: Lenovo, Nokia*

(Replaces S3-251886)

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

### 4.23 Security support for the Next Generation Real Time Communication services Phase 2

**S3-251825 Reply LS on Privacy and security aspects regarding DC management by the network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2504207*

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

**S3-251816 Reply to LS on IMS support for AF authorization and IMS avatar communication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2502434*

**Decision:** The document was **replied to in S3-252297**.

**S3-252108 Reply LS on authorization and authentication in Avatar communication**

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

**Decision:** The document was **revised to S3-252297**.

**S3-252297 Reply LS on authorization and authentication in Avatar communication**

*Type: LS out For: Approval  
 to SA2,SA4  
 Source: Huawei, HiSilicon*

(Replaces S3-252108)

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

**S3-251833 LS on Avatar Security Aspects**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-250715*

**Decision:** The document was **replied to in S3-252296**.

**S3-251898 LS on Avatar Security Aspects**

*Type: LS out For: (not specified)  
 to SA4, cc SA2, SA6  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-252296**.

**S3-252296 LS on Avatar Security Aspects**

*Type: LS out For: -  
 to SA4,SA2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-251898)

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

**S3-251963 LS reply on Avatar Security Aspects**

*Type: LS out For: Approval  
 to SA4  
 Source: CATT*

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

**S3-252107 Reply LS on Avatar Security Aspects**

*Type: LS out For: Approval  
 to SA4, cc SA2  
 Source: Huawei, HiSilicon*

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

**S3-252197 Discussion about the LS on Avatar Security Aspects from SA4**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-252198 Reply LS on Avatar Security Aspects**

*Type: LS out For: Approval  
 to SA4, SA2  
 Source: Ericsson*

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

**S3-252199 Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.203, Signing and verification of third party user identity information in IMS**

*Type: draftCR For: Approval  
 33.203 v19.0.0  
 Source: Ericsson*

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

**S3-252200 Signing and verification of third party user identity information in IMS**

*Type: CR For: Agreement  
 33.203 v19.0.0 CR-0285 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

MCC: Clauses need to be in order.

**Decision:** The document was **revised to S3-252300**.

**S3-252300 Signing and verification of third party user identity information in IMS**

*Type: CR For: Agreement  
 33.203 v19.0.0 CR-0285 rev 1 Cat: B (Rel-19)  
  
 Source: Ericsson*

(Replaces S3-252200)

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

**S3-252201 Proposal for a living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security of IMS avatar communication**

*Type: draftCR For: Approval  
 33.328 v18.3.0  
 Source: Ericsson*

**Discussion:**

Samsung: not fine with the procedures.It depends on the conclusions.

**Decision:** The document was **revised to S3-252301**.

**S3-252301 Proposal for a living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security of IMS avatar communication**

*Type: draftCR For: Approval  
 33.328 v18.3.0  
 Source: Ericsson*

(Replaces S3-252201)

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

**S3-252109 Security of Avatar Communication**

*Type: other For: Approval  
 33.328 v..  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-252202 Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security and privacy of IMS capability exposure**

*Type: draftCR For: Approval  
 33.328 v18.3.0  
 Source: Ericsson, Huawei, HiSilicon, China Mobile*

**Decision:** The document was **revised to S3-252302**.

**S3-252302 Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security and privacy of IMS capability exposure**

*Type: draftCR For: Approval  
 33.328 v18.3.0  
 Source: Ericsson, Huawei, HiSilicon, China Mobile*

(Replaces S3-252202)

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

**S3-252411 Security and privacy of IMS capability exposure**

*Type: CR For: Agreement  
 33.328 v18.3.0 CR-0082 Cat: B (Rel-19)  
  
 Source: Ericsson, Huawei, HiSilicon, China Mobile, Nokia, Nokia Shanghai Bell*

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

**S3-252113 Addressing EN for Data Channel Exposure**

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

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

**S3-252203 Changes to the Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security and privacy of IMS capability exposure**

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

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

### 4.24 Security aspects of Core Network Enhanced Support for AIML

**S3-252056 Living document for AIML\_CN\_SEC**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT*

**Decision:** The document was **revised to S3-252306**.

**S3-252306 Living document for AIML\_CN\_SEC**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT*

(Replaces S3-252056)

**Decision:** The document was **revised**.

**S3-252432 Security aspects of Core Network Enhanced Support for AIML**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2154 Cat: B (Rel-19)  
  
 Source: China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT*

(Replaces S3-252306)

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

**S3-251929 Update security for data collection for the LMF-based AIML positioning**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-252409**.

**S3-252409 Update security for data collection for the LMF-based AIML positioning**

*Type: draftCR For: Approval  
 33.501 v19.2.0  
 Source: OPPO*

(Replaces S3-251929)

**Discussion:**

The Chair asked for a show of hands:

Support: AT&T, Vivo, ORANGE, Lenovo, T-Mobile, CMCC, NTT-Docomo, Ericsson, BT, BSI,Deutsche Telekom, Xiaomi, OPPO,Sectra.

No Support: Apple, Huawei.

Apple objected to this contributiion. They gave the following technical reasons to be minuted:

1. There is no technical justification to indicate use consent is not needed for inference procedure. The current positioning procedure is not clear to be the basis of SA3's decision.

2. User consent and privacy profile are independent procedures, they cover different aspects. SA3 is lack of information and sufficient input to change the previous decison which is to appply user consent to the full ALML positioning.

3. The current document (S3-252409) brings confusion on how should SA2 decide on the privacy profiles, we need more time to do the whole study and then to provide a full picture to other groups.

Therefore, it is not mature to approve it right now.

The Chair declared this document as approved as working agreement. The content will go to the Living CR and converted to a CR that will go to Plenary. The CR can be challenged by Apple in Plenary.

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

**S3-252025 Clarification on X.12.2**

*Type: other For: Approval  
 Source: vivo*

**Decision:** The document was **revised to S3-252303**.

**S3-252303 Clarification on X.12.2**

*Type: other For: Approval  
 Source: vivo*

(Replaces S3-252025)

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

**S3-252004 Update NEF security requirement for Secure NF Instance ID**

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

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

**S3-251946 Update figures of the living document for AIML\_CN\_SEC**

*Type: other For: Approval  
 33.501 v..  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-252304**.

**S3-252304 Update figures of the living document for AIML\_CN\_SEC**

*Type: other For: Approval  
 33.501 v..  
 Source: ZTE Corporation*

(Replaces S3-251946)

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

**S3-251962 Alignment CR**

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

**Decision:** The document was **revised to S3-252305**.

**S3-252305 Alignment CR**

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

(Replaces S3-251962)

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

**S3-252003 Various Editorial changes to the living CR**

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

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

**S3-252057 Editorial changes for Living document**

*Type: other For: Approval  
 Source: China Mobile*

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

### 4.25 Security for PLMN hosting a NPN

**S3-251984 Security for PLMN hosting a NPN**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2137 Cat: B (Rel-19)  
  
 Source: China Telecom, ZTE*

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

### 4.26 Security Aspects of Ambient IoT Services in 5G

**S3-252097 AIoT TS- Authentication - General clause**

*Type: pCR For: (not specified)  
 33.369 v0.1.0  
 Source: Apple*

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

**S3-252067 AIoT Authentication Procedure for Inventory**

*Type: draftCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-252279**.

**S3-252279 AIoT Authentication Procedure for Inventory**

*Type: draftCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

(Replaces S3-252067)

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

**S3-252098 AIoT TS- Authentication procedure for Inventory**

*Type: pCR For: (not specified)  
 33.369 v0.1.0  
 Source: Apple*

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

**S3-251950 Update the clause 5.2 Authentication procedure**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

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

**S3-252091 pCR to TS33.369 AIoT Device authentication procedure**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

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

**S3-252068 AIoT authentication procedure for Command**

*Type: draftCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

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

**S3-251993 Authentication procedure in AIoT service**

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

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

**S3-252083 Authentication procedure for AIoT service**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-252164 Authentication procedures**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-251907 AIoT authentication procedure based on stored nonces**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: KPN N.V.*

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

**S3-252170 AIoT specific key bootstrapping procedure**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-252136 Protection of AIoT data in command message**

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

**Discussion:**

ORANGE: no requirements on the algorithms.What preconfigured algorithm is in the ADM? There are other missing issues here and a security evaluation is not possible at this point before addressing them.

**Decision:** The document was **revised to S3-252280**.

**S3-252280 Protection of AIoT data in command message**

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

(Replaces S3-252136)

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

**S3-251951 Update the clause 5.3**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

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

**S3-252125 PCR on Protection of information during AIoT service communication**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

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

**S3-252084 Protection of information during AIoT service communication**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-252092 pCR to TS33.369 AIoT Device communication security procedure**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

**Discussion:**

Sony: some of the parameters listed are not needed for the procedure. There may be misalignment with other WGs.

Qualcomm: not clear which keys are used.

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

**S3-252165 Security procedure on the information protection in command procedure**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-252024 communication secuirty procedure**

*Type: pCR For: Approval  
 33.369 v0.0.0  
 Source: vivo*

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

**S3-251927 Content to 5.5 protection between AIOT network elements**

*Type: draftCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

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

**S3-251952 Update the clause 5.5 Protection between AIoT network element**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-252281**.

**S3-252281 Update the clause 5.5 Protection between AIoT network element**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

(Replaces S3-251952)

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

**S3-251994 Security protection between AIoT network elements**

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

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

**S3-251897 Procedure for Protection of AIoT device identifier privacy**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Sony, OPPO*

**Abstract:**

Based on the conclusion in TR 33.713 the following text is proposed.

**Decision:** The document was **revised to S3-252326**.

**S3-252326 Procedure for Protection of AIoT device identifier privacy**

*Type: other For: Approval  
 33.369 v0.1.0  
 Source: Sony, OPPO*

(Replaces S3-251897)

**Discussion:**

Discussions on making this document as a living document. Huawei commented that the Chair should communicate to the Plenary that there has been some progress even mentioning the existence of this living document.

Lenovo wanted to have the draft CR approved.

Huawei: note it and indicate that these are the solutions on the table. This document is to record the solutions, the main point is to work on the TS.

ORANGE preferred to have a living document.

This was converted into a living document.

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

**S3-252208 Handling of Temporary Identity for the initial Individual Inventory Request**

*Type: discussion For: Endorsement  
 33.713 v..  
 Source: Lenovo*

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

**S3-252064 Update clause 5.4  of TS 33.369**

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

**Discussion:**

ORANGE: support should be mandatory, use is optional.

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

**S3-252158 Discussion on issues in temporary ID based approaches and way forward proposal**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated, Ericsson, Lenovo*

**Discussion:**

NTT-Docomo: we need to look at what kind of network control we can have here.

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

**S3-252169 Device security requirements regarding inventory with filtering information**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

**Discussion:**

ORANGE: portion of the AIoT device? Where is that defined?

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

**S3-252159 Protection of AIoT device identifier privacy**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

**Discussion:**

KPN, Lenovo: not happy with this solution.

**Decision:** The document was **revised to S3-252327**.

**S3-252327 Protection of AIoT device identifier privacy**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-252159)

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

**S3-252093 pCR to TS33.369 AIoT Device privacy protection**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

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

**S3-252210 Network assigned Temporary Group Identity**

*Type: discussion For: Endorsement  
 33.713 v..  
 Source: Lenovo*

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

**S3-252094 pCR to TS33.369 AIoT Device group privacy protection**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

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

**S3-252151 Pseudo-CR on Privacy for group paging**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Ericsson*

**Discussion:**

Nokia: sufficient anonimity is hard to quantify.

**Decision:** The document was **revised to S3-252328**.

**S3-252328 Pseudo-CR on Privacy for group paging**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Ericsson*

(Replaces S3-252151)

**Discussion:**

NTT-Docomo didn’t agree with this approach.

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

**S3-252061 Update clause 5.1 of TS 33.369**

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

**Decision:** The document was **revised to S3-252410**.

**S3-252410 Update clause 5.1 of TS 33.369**

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

(Replaces S3-252061)

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

**S3-251908 AIoT baseline requirements**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: KPN N.V.*

**Discussion:**

Thales: this looks like content for a TR.

Sony, ORANGE: improve the wording.

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

**S3-252329 AIoT baseline requirements**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: KPN N.V.*

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

**S3-252086 Discussion on AIoT security principles**

*Type: discussion For: Endorsement  
 33.369 v..  
 Source: CATT*

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

**S3-252062 Update clause 4.1 of TS 33.369**

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

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

**S3-252032 Proposal regarding AIOT device requirements.**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Nokia*

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

**S3-251914 Pseudo-CR on AIoT temporary ID requirement**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: NTT DOCOMO INC.*

**Abstract:**

This pCR adds the requirement on the device to support temporary device IDs, as agreed on in conclusion to KI#3 in TR33.713.

**Decision:** The document was **revised to S3-252283**.

**S3-252283 Pseudo-CR on AIoT temporary ID requirement**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-251914)

**Discussion:**

Adding an editor's note.

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

**S3-251926 Content to 4.2.1 requirement on the device**

*Type: draftCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

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

**S3-251948 Update the clause 4.2.1 Requirements on the device**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

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

**S3-252051 Security requirements on AIoT device**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Samsung*

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

**S3-252082 Security requirements on the AIoT device**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-252088 pCR to TS33.369 Security requirements on the device**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

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

**S3-252095 AIoT TS - Security Requirements for AIoT devices**

*Type: pCR For: (not specified)  
 33.369 v0.1.0  
 Source: Apple*

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

**S3-252168 Confidentiality and integrity protection requirements on device**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-252137 security requirement on device**

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

**Discussion:**

ORANGE: selection procedure for the algorithms?

Huawei: indicated in the command.

**Decision:** The document was **revised to S3-252282**.

**S3-252282 security requirement on device**

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

(Replaces S3-252137)

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

**S3-252138 Discussion paper on credential storage in Ambinet IoT device**

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

**Discussion:**

Thales: we discussed this in Maastricht. We proposed to send an LS to RAN to know what constraints in AioT we have for these features. We can work on the characteristcis of the UICC now.

ORANGE: Integrated UICCs exist in the market created specifically for AiOT applications, although they are not standardised. We need that AiOT vendors choose what electrical parameters they need, which is more than it is analysed here. This is advancing a solution. We need to figure out the storage requirements and then we can discuss the solutions, as we did in 5G.

Vodafone: different requirements for UICC vendors, so it is up to implementation to decide whether it is UICC or another thing? ORANGE replied that 3GPP wasn't in that stage yet.

ORANGE: several bodies define different parts of the UICC. The electrical interfaces are just one part.

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

**S3-251918 AIoT - Subscription Credentials Storage and Processing**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Orange Belgium*

**Discussion:**

Deutsche Telekom supported this contribution.

Interdigital commented that this clause applied to UE, so the reference was not correct.

Vodafone didn’t find it applicable either.

**Decision:** The document was **revised to S3-252262**.

**S3-252150 AIoT Device Secure Storage**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Ericsson*

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

**S3-252227 Credential storage requirement for device**

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

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

**S3-252262 Credential storage requirement for device**

*Type: other For: Approval  
 33.369 v..  
 Source: Orange Belgium, THALES, Deutsche Telekom, IDEMIA, T-Mobile US, AT&T, Ericsson,Huawei*

(Replaces S3-252227)

**Discussion:**

ORANGE: secure storage in this context is not clear.

Deutsche Telekom: operators being liable from the security point of view, we need to know how it is implemented. The note should go away.

Thales: tamper resistant means logical and physical attacks are contained. Secure storage means only logical attacks are contained.

IDEMIA: this looks like a SA1 requirement, not in our scope.

T-Mobile: tamper resistance is not defined in 3GPP.

Huawei (Georg): you need something out of this meeting to communicate SA where you are.

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

**S3-251916 LS on power and energy consumption budget for security features in AioT**

*Type: LS out For: Approval  
 to RAN1, SA1  
 Source: ORANGE*

**Decision:** The document was **revised to S3-252335**.

**S3-252335 LS on power and energy consumption budget for security features in AioT**

*Type: LS out For: Approval  
 to RAN1, RAN  
 Source: ORANGE*

(Replaces S3-251916)

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

**S3-252167 Storage and processing of credentials requirements on the device**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-252149 Pseudo-CR on AIoT device security requirements related to cryptographic algorithms**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-252308**.

**S3-252308 Pseudo-CR on AIoT device security requirements related to cryptographic algorithms**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Ericsson*

(Replaces S3-252149)

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

**S3-252031 Proposal regarding AIOTF requirements.**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Nokia*

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

**S3-251949 Update the clause 4.2.2 Requirements on the AIOTF**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

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

**S3-252023 Security requirements on the AIOTF**

*Type: pCR For: Approval  
 33.369 v0.0.0  
 Source: vivo*

**Decision:** The document was **revised to S3-252309**.

**S3-252309 Security requirements on the AIOTF**

*Type: pCR For: Approval  
 33.369 v0.0.0  
 Source: vivo*

(Replaces S3-252023)

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

**S3-251922 Content to 4.2.2 requirement on the AIOTF**

*Type: draftCR For: Approval  
 33.369 v0.1.0  
 Source: OPPO*

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

**S3-252052 Security requirements on AIoTF**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Samsung*

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

**S3-252089 pCR to TS33.369 Security requirements on the AIOTF**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

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

**S3-252081 Security requirements on the AIoTF**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-252096 AIoT TS - Security Requirements for AIOTF**

*Type: pCR For: (not specified)  
 33.369 v0.1.0  
 Source: Apple*

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

**S3-252063 Update clause 4.2.2  of TS 33.369**

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

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

**S3-252033 Proposal regarding ADM requirements.**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Nokia*

**Discussion:**

ORANGE: premature.

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

**S3-252090 pCR to TS33.369 Security requirements on the ADM**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: CATT*

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

**S3-252166 Addressing EN in the requirements on the ADM**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-252412**.

**S3-252412 Addressing EN in the requirements on the ADM**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-252166)

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

**S3-251947 Add a clause about requirement on AIoT Reader**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-252310**.

**S3-252310 Add a clause about requirement on AIoT Reader**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: ZTE Corporation*

(Replaces S3-251947)

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

**S3-251917 AIoT - Subscription Credentials Storage and Processing**

*Type: pCR For: Approval  
 33.369 v0.1.0  
 Source: Orange Belgium*

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

**S3-252287 Draft TS 33.369**

*Type: draft TS For: Approval  
 33.369 v0.2.0  
 Source: OPPO*

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

### 4.27 Protection of XRM Media related information

**S3-252182 Comparison of AES-CCM, AES-GCM, and AES-GCM-SST for protection of XRM**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-251865 Selection of authentication mode for MRI in forwarded mode**

*Type: CR For: (not specified)  
 33.501 v19.2.0 CR-2136 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S3-252121 Addressing the EN on the concrete modes of AES for protecting XRM Media related information when using connect-UDP forwarded mode**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2139 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

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

**S3-252181 Providing security details for forwarding mode in XRM**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2145 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-252307**.

**S3-252307 Providing security details for forwarding mode in XRM**

*Type: CR For: Agreement  
 33.501 v19.2.0 CR-2145 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson*

(Replaces S3-252181)

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

**S3-252124 Addressing the EN on the length of the protected MRI content**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2141 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

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

**S3-252123 Addressing the ENs of Key derivation, Nonce and counter values, and VCID uniqueness in the forwarding mode.**

*Type: CR For: Approval  
 33.501 v19.2.0 CR-2140 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

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

## 5 Rel-19 Studies

### 5.1 Study on enablers for Zero Trust Security

### 5.2 Study on the security support for the Next Generation Real Time Communication services phase 2

**S3-251913 Avatar Identification and mapping within BAR**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Vodafone Ireland Plc*

**Abstract:**

This document outlines a solution for identifying and mapping Avatars IDs to network identifiers within the Base Avatar Repository (BAR).

**Discussion:**

Ericsson: this solution comes very late. I guess that this is related with the LS from CT4.

The Chair agreed that there was no time to discuss new solutions and it was better to bring this back in Rel-20.

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

**S3-252044 Resolving EN in KI#2 conclusion**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Samsung*

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

**S3-252045 Resolving EN related to impersonation**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Samsung*

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

**S3-252111 Update conclusion of KI#2**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-252298**.

**S3-252298 Update conclusion of KI#2**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-252111)

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

**S3-252193 Conclusion update for KI#2: Security of IMS based Avatar Communication**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Ericsson*

**Discussion:**

Huawei, Nokia,Samsung: this doesn’t address the problem.

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

**S3-252112 Addressing EN in conclusion of KI#3**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Huawei, HiSilicon*

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

**S3-252194 Conclusion update for KI#3: Security and privacy aspects of IMS DC capability exposure**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-252299**.

**S3-252299 Conclusion update for KI#3: Security and privacy aspects of IMS DC capability exposure**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Ericsson*

(Replaces S3-252194)

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

**S3-252195 TR cleanup**

*Type: pCR For: Approval  
 33.790 v1.3.0  
 Source: Ericsson*

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

**S3-252196 Presentation of Specification/Report to TSG:**

**TR 33.790 Study on the security support for the next generation real time communication services phase 2, Version 1.3.0**

*Type: TS or TR cover For: Approval  
 33.790 v1.3.0  
 Source: Ericsson*

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

**S3-252286 Draft TR 33.790**

*Type: draft TR For: Approval  
 33.790 v1.4.0  
 Source: Ericsson*

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

### 5.3 Study on security for PLMN hosting a NPN

### 5.4 Study of ACME for Automated Certificate Management in SBA

### 5.5 Study on enabling a cryptographic algorithm transition to 256-bits

### 5.6 Study on mitigations against bidding down attacks

### 5.7 Study on security Aspects of 5G Satellite Access Phase 2

### 5.8 Study on security for mobility over non-3GPP access to avoid full primary authentication

### 5.9 Study on security Aspect of Ambient IoT Services in 5G

OPPO: send the TR for information to Plenary.

ORANGE proposed to withdraw the TR.

Huawei replied that the withdrawal could only happen in Plenary. Plenary had asked SA3 for progress in this study.

Interdigital: We want to send it to SA.

Huawei didn’t understand why the TR had to be withdrawn. They added that studies are release independent. ORANGE reminded that there was a precedent when the 5G study was withdrawn. All solutions and requirements were being done anyway in the TS, so the study was no longer needed.

Huawei: sending the TR to SA is a normal procedure.

NTT-Docomo: any external impact when withdrawing? The TR is not in such a terrible state.

Thales: there are issues, no solutions selected in the conclusions.

Huawei: the TR can be in any state and you can start the normative work. You don’t need the study finished to start the normative work. SA3 would report that all the time spent on the TR would have been wasted after withdrawing it.

CMCC: no conclusions is still a valid conclusion.

Lenovo: send the TR to Plenary for approval.

KPN: send it to Plenary for approval.

T-Mobile: send the TR for information, it needs cleanup for sure.

NTT-Docomo: 80% is enough for approval.

Nokia: send the TR to Plenary and explain on the cover page the issues that we had.

Huawei: raise this in the SA3 report.We are not afraid that this TR will be misinterpreted externally.

ORANGE: as a compromise send the TR for information and let's keep discussing next meeting.

Vodafone: it's 90% done, send it for approval.

Huawei: send it for information if the group agrees here. Companies can argue in Plenary if they want it for approval.

**S3-251895 KI#3, New Merged Solution**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Sony, OPPO*

**Abstract:**

Based on the discussion during the CC between SA3#121 and SA3#122 the following new merged solution is proposed.

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

**S3-251954 new solution to KI#3**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: ZTE Corporation*

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

**S3-252018 New Sol KI#3, Combine UE-generated temp ID with network-assigned temp ID**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

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

**S3-252234 Pseudo-CR Solution for KI#3: Paging with AIOT group ID**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-252380**.

**S3-252380 Pseudo-CR Solution for KI#3: Paging with AIOT group ID**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-252234)

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

**S3-251896 KI#3, Update Conclusions**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Sony, OPPO*

**Abstract:**

Documenting that the normative work shall be based on the new merged solution.

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

**S3-252019 Conclusion update on KI#3 for AIoT privacy**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

**Decision:** The document was **revised to S3-252381**.

**S3-252381 Conclusion update on KI#3 for AIoT privacy**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

(Replaces S3-252019)

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

**S3-251921 Update AIOT conclusion#3**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

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

**S3-252099 AIoT TR - Clean up on the KI#3**

*Type: pCR For: (not specified)  
 33.713 v0.8.0  
 Source: Apple*

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

**S3-252160 Update on KI#3 conclusion**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-251915 Update of KI#3**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: NTT DOCOMO INC.*

**Abstract:**

KI#3 is updated with an attack on privacy based on the group paging mechanism.

**Decision:** The document was **revised to S3-252390**.

**S3-252390 Update of KI#3**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-251915)

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

**S3-251919 update AIOT KI#3**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

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

**S3-252382 update AIOT KI#3**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

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

**S3-252100 AIoT TR - Clean up on the KI#4**

*Type: pCR For: (not specified)  
 33.713 v0.8.0  
 Source: Apple*

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

**S3-252128 Update AIoT conclusion #4**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-252383**.

**S3-252383 Update AIoT conclusion #4**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

(Replaces S3-252128)

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

**S3-252161 Proposed addition to general conclusion related to credential storage**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-252384**.

**S3-252384 Proposed addition to general conclusion related to credential storage**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-252161)

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

**S3-252205 General conclusion: network layer**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

**Decision:** The document was **revised to S3-252385**.

**S3-252385 General conclusion: network layer**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

(Replaces S3-252205)

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

**S3-252207 General conclusion: security capabilities**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

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

**S3-252209 General conclusion: authentication**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

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

**S3-252222 Conclusion KI#5: credentials**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

**Decision:** The document was **revised to S3-252386**.

**S3-252386 Conclusion KI#5: credentials**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

(Replaces S3-252222)

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

**S3-252223 Conclusion KI#5: authentication**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

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

**S3-252224 Conclusion KI#5: solutions**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

**Decision:** The document was **revised to S3-252387**.

**S3-252387 Conclusion KI#5: solutions**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES, ORANGE*

(Replaces S3-252224)

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

**S3-252030 Refinement of EN in KI#5**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-252388**.

**S3-252388 Refinement of EN in KI#5**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Nokia*

(Replaces S3-252030)

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

**S3-251995 removing the editor's note in solution 4**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Huawei, HiSilicon*

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

**S3-251953 update sol#6**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: ZTE Corporation*

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

**S3-251923 pCR to TR33.713 Remove EN in solution#9**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: CATT*

**Decision:** The document was **revised to S3-252363**.

**S3-252363 pCR to TR33.713 Remove EN in solution#9**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: CATT*

(Replaces S3-251923)

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

**S3-252020 Remove EN for Sol#10**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

**Decision:** The document was **revised to S3-252364**.

**S3-252364 Remove EN for Sol#10**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

(Replaces S3-252020)

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

**S3-252162 Updates on solution 15**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-252085 Remove Editor’s Notes in solution 16 of TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Xiaomi Technology*

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

**S3-252129 Update Solution #17 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-252365**.

**S3-252365 Update Solution #17 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

(Replaces S3-252129)

**Decision:** The document was **revised to S3-252413**.

**S3-252413 Update Solution #17 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

(Replaces S3-252365)

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

**S3-252046 pCR on resolving EN on solution #22**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

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

**S3-252047 pCR on evaluation update on solution #22**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-252366**.

**S3-252366 pCR on evaluation update on solution #22**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

(Replaces S3-252047)

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

**S3-252048 pCR on converting EN into NOTE in solution #22**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

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

**S3-251920 Update AIOT sol#24**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-252367**.

**S3-252367 Update AIOT sol#24**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

(Replaces S3-251920)

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

**S3-251955 resolving ENs in sol#25 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-252368**.

**S3-252368 resolving ENs in sol#25 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: ZTE Corporation*

(Replaces S3-251955)

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

**S3-252152 Addressing EN in AIoT Solution #29**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Ericsson*

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

**S3-251925 pCR to TR33.713 Remove EN in solution#30**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: CATT*

**Decision:** The document was **revised to S3-252369**.

**S3-252369 pCR to TR33.713 Remove EN in solution#30**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: CATT*

(Replaces S3-251925)

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

**S3-252130 Remove ENs in Solution #32 and #33**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-252370**.

**S3-252370 Remove ENs in Solution #32 and #33**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: OPPO*

(Replaces S3-252130)

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

**S3-252163 Addressing ENs in solution 34**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-252371**.

**S3-252371 Addressing ENs in solution 34**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-252163)

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

**S3-252029 Resolution of EN in solution 35 concerning device constrains**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Nokia*

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

**S3-251906 Pseudo-CR on Update AIOT sol#37**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Xidian University*

**Decision:** The document was **revised to S3-252372**.

**S3-252372 Pseudo-CR on Update AIOT sol#37**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Xidian University*

(Replaces S3-251906)

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

**S3-252049 pCR on resolving EN on solution #38**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-252373**.

**S3-252373 pCR on resolving EN on solution #38**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

(Replaces S3-252049)

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

**S3-252050 pCR on evaluation update on solution #38**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-252374**.

**S3-252374 pCR on evaluation update on solution #38**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Samsung*

(Replaces S3-252050)

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

**S3-252231 Resolution of ENs in solution #39**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES*

**Decision:** The document was **revised to S3-252375**.

**S3-252375 Resolution of ENs in solution #39**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES*

(Replaces S3-252231)

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

**S3-252021 Remove EN for Sol#40**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

**Decision:** The document was **revised to S3-252376**.

**S3-252376 Remove EN for Sol#40**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

(Replaces S3-252021)

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

**S3-252022 Remove EN for Sol#41**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

**Decision:** The document was **revised to S3-252377**.

**S3-252377 Remove EN for Sol#41**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: vivo*

(Replaces S3-252022)

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

**S3-251909 Resolving ENs in Solution #42**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-252414**.

**S3-252414 Resolving ENs in Solution #42**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: KPN N.V.*

(Replaces S3-251909)

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

**S3-252153 Addressing EN in AIoT Solution #43**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: Ericsson*

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

**S3-252059 Resolve EN of sequence number of figure in Sol#45 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: China Mobile*

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

**S3-252058 Evaluation for Sol#45 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-252379**.

**S3-252379 Evaluation for Sol#45 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: China Mobile*

(Replaces S3-252058)

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

**S3-252060 Resolve ENs  in Sol#45 of TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-252378**.

**S3-252378 Resolve ENs  in Sol#45 of TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: China Mobile*

(Replaces S3-252060)

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

**S3-252226 Resolution of ENs in solution #39**

*Type: pCR For: Approval  
 33.713 v0.8.0  
 Source: THALES*

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

**S3-252288 Draft TR 33.713**

*Type: draft TR For: Approval  
 33.713 v0.9.0  
 Source: OPPO*

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

**S3-252389 Cover sheet TR 33.713**

*Type: TS or TR cover For: Approval  
 33.713 v..  
 Source: OPPO*

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

**S3-252392 LS on security parameter in paging message**

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

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

### 5.10 Study on security aspects of Usage of User Identities

### 5.11 Study on UAS security enhancement

### 5.12 Study on security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3

### 5.13 Study on security aspects of AIML enhancements

### 5.14 Study on EdgeComputing

### 5.15 Study on security aspects for Multi-Access

### 5.16 Study on 5GS enhancements for Energy Saving

### 5.17 Study on security aspects of 5G NR Femto

### 5.18 Study on security aspects of 5G Mobile Metaverse services

### 5.19 Study on security aspects of CAPIF Phase 3

**S3-252239 Miscellaneous updates in introductionary part**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0002 Cat: F (Rel-19)  
  
 Source: Xiaomi, Nokia*

**Decision:** The document was **revised to S3-252312**.

**S3-252312 Miscellaneous updates in introductionary part**

*Type: CR For: -  
 33.700-22 v19.0.0 CR-0002 rev 1 Cat: F (Rel-19)  
  
 Source: Xiaomi, Nokia*

(Replaces S3-252239)

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

**S3-252240 Missing clarifications and typos correction**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0003 Cat: F (Rel-19)  
  
 Source: Xiaomi, Nokia*

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

**S3-252241 Implementation of original figures**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0004 Cat: F (Rel-19)  
  
 Source: Xiaomi, Nokia*

**Decision:** The document was **revised to S3-252313**.

**S3-252313 Implementation of original figures**

*Type: CR For: -  
 33.700-22 v19.0.0 CR-0004 rev 1 Cat: F (Rel-19)  
  
 Source: Xiaomi, Nokia*

(Replaces S3-252241)

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

**S3-252242 Solution 11 editorial updates**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0005 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S3-252243 Solution 13 figure update and FFS resolution**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0006 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S3-252244 Solution 19 figure update and formatting issues**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0007 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S3-252245 Solution 20 figure update and formatting issues**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0008 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S3-252246 Solution 21 restructuring and formatting**

*Type: CR For: (not specified)  
 33.700-22 v19.0.0 CR-0009 Cat: F (Rel-19)  
  
 Source: Nokia*

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

### 5.20 Study on 3GPP Cryptographic Inventory

**S3-251880 Editorial Modifications**

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

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

**S3-251881 Terms and Definitions**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: Nokia, NIST*

**Decision:** The document was **revised to S3-252330**.

**S3-252330 Terms and Definitions**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: Nokia, NIST*

(Replaces S3-251881)

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

**S3-251975 missing references and abbreviations**

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

**Decision:** The document was **revised to S3-252331**.

**S3-252331 missing references and abbreviations**

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

(Replaces S3-251975)

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

**S3-252177 Pseudo-CR on 3GPP Cryptographic Inventory Abbreviations**

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

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

**S3-252175 Pseudo-CR on 3GPP Cryptographic Inventory Clause Restructuring**

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

**Decision:** The document was **revised to S3-252332**.

**S3-252332 Pseudo-CR on 3GPP Cryptographic Inventory Clause Restructuring**

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

(Replaces S3-252175)

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

**S3-251860 Cryptographic Inventory Table update for MIKEY-SAKKE**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: NIST*

**Abstract:**

This document provides entries for tables 4.2-1 and 4.3-1 corresponding to MIKEY-SAKKE

**Discussion:**

Nokia: change hash to hash functions.

**Decision:** The document was **revised to S3-252333**.

**S3-252333 Cryptographic Inventory Table update for MIKEY-SAKKE**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: NIST*

(Replaces S3-251860)

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

**S3-251874 Tables Content for ECIES**

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

**Decision:** The document was **revised to S3-252334**.

**S3-252334 Tables Content for ECIES**

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

(Replaces S3-251874)

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

**S3-251875 Tables Content for PKI**

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

**Discussion:**

Alex (SA3-LI Chair): add LI stuff in a separate Annex.

MCC: the study may have to be revised if LI is not considered in the objectives.

**Decision:** The document was **revised to S3-252336**.

**S3-252336 Tables Content for PKI**

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

(Replaces S3-251875)

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

**S3-251876 Tables Content for OCSP**

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

**Decision:** The document was **revised to S3-252337**.

**S3-252337 Tables Content for OCSP**

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

(Replaces S3-251876)

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

**S3-251877 Tables Content for COSE**

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

**Decision:** The document was **revised to S3-252415**.

**S3-252415 Tables Content for COSE**

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

(Replaces S3-251877)

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

**S3-251878 Tables Content for KDF**

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

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

**S3-251879 Tables Content for EAP-TLS**

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

**Decision:** The document was **revised to S3-252338**.

**S3-252338 Tables Content for EAP-TLS**

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

(Replaces S3-251879)

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

**S3-251978 Table content for EAP-TTLS**

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

**Decision:** The document was **revised to S3-252416**.

**S3-252416 Table content for EAP-TTLS**

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

(Replaces S3-251978)

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

**S3-251979 Table content for OAuth 2.0**

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

**Decision:** The document was **revised to S3-252339**.

**S3-252339 Table content for OAuth 2.0**

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

(Replaces S3-251979)

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

**S3-251980 Table content for IKEv2**

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

**Decision:** The document was **revised to S3-252340**.

**S3-252340 Table content for IKEv2**

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

(Replaces S3-251980)

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

**S3-251981 Table content for PDCP**

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

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

**S3-251982 Table content for NAS**

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

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

**S3-252042 pCR on Tables Content for IPsec ESP protocol**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-252341**.

**S3-252341 pCR on Tables Content for IPsec ESP protocol**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: Samsung*

(Replaces S3-252042)

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

**S3-252206 3GPP Cryptographic Inventory Table for EAP-AKA’/EAP-5G**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-252342**.

**S3-252342 3GPP Cryptographic Inventory Table for EAP-AKA’/EAP-5G**

*Type: pCR For: Approval  
 33.938 v0.2.0  
 Source: Lenovo*

(Replaces S3-252206)

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

**S3-252172 Pseudo-CR on 3GPP Cryptographic Inventory Table for DTLS**

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

**Decision:** The document was **revised to S3-252343**.

**S3-252343 Pseudo-CR on 3GPP Cryptographic Inventory Table for DTLS**

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

(Replaces S3-252172)

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

**S3-252173 Pseudo-CR on 3GPP Cryptographic Inventory Table for TLS**

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

**Decision:** The document was **revised to S3-252344**.

**S3-252344 Pseudo-CR on 3GPP Cryptographic Inventory Table for TLS**

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

(Replaces S3-252173)

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

**S3-252174 Pseudo-CR on 3GPP Cryptographic Inventory Table for JWE and JWS**

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

**Decision:** The document was **revised to S3-252345**.

**S3-252345 Pseudo-CR on 3GPP Cryptographic Inventory Table for JWE and JWS**

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

(Replaces S3-252174)

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

**S3-251976 descriptioin of EAP-TTLS**

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

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

**S3-251977 description of OAuth 2.0**

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

**Decision:** The document was **revised to S3-252346**.

**S3-252346 description of OAuth 2.0**

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

(Replaces S3-251977)

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

**S3-252176 Pseudo-CR on 3GPP Cryptographic Inventory EAP-TLS Details**

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

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

**S3-252178 Pseudo-CR on 3GPP Cryptographic Inventory OCSP Details**

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

**Decision:** The document was **revised to S3-252347**.

**S3-252347 Pseudo-CR on 3GPP Cryptographic Inventory OCSP Details**

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

(Replaces S3-252178)

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

**S3-252179 Pseudo-CR on 3GPP Cryptographic Inventory QUIC Details**

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

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

**S3-251882 Coverpage for TR Cryptographic Inventory**

*Type: TS or TR cover For: Approval  
 33.938 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: one meeting cycle to take a look at it before sending it for approval.

ORANGE: send it at least for information.

Ericsson wanted to have more time to review the document and they didn’t consider that the email approval wouldn’t give them enough time to review the document.

**Decision:** The document was **revised to S3-252417**.

**S3-252417 Coverpage for TR Cryptographic Inventory**

*Type: TS or TR cover For: Approval  
 33.938 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-251882)

**Discussion:**

It was decided to send it for approval.

MCC commented that this would have to go through a review by EditHelp.

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

**S3-252289 Draft TR 33.938**

*Type: draft TR For: Approval  
 33.938 v0.3.0  
 Source: Huawei*

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

## 6 New Study/Work item & Rel-20 planning

### 6.1 Rel-20 Planning

**S3-251912 Summary of NWM discussion on R-20 planning**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC.*

**Abstract:**

This document summarizes the NWM discussion.

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

**S3-252026 Discussion Paper on 6G NWM process and questions**

*Type: discussion For: Endorsement  
 Source: vivo*

**Discussion:**

ORANGE doubted whether the NWM was the right tool, something more interactive would be better.

Nokia: NWM is good to capture what every company wants, so we can better focus on the discussions.

Intel: define the process, what we are trying to achieve in this meeting. Prioritization of 5GA topics will happen in the next SA plenary in June depending on SA2 decision.

Huawei: what kind of submissions do we expect?

Ericsson: NWM can help for input colllection, and then we can have conference calls or other more interactive discussions. Let's endorse now the questions applicable for the next NWM.

The Chair commented that there should be a clear plan for 6G, but an agreement needed to be made for the 5GA split with 6G.

NTT-Docomo: next meeting will be surely 80% 5GA topics because there are not so many 6G topics now.

The Chair commented that the number of topics would be to be limited.

Ericsson: time allocation will depend on the number of documents.

Nokia: we need to agree on the timeline for calculating the tiem units.

The Chair suggested to go through the 5GA WIDs proposals and decide on a priority list for 5GA. SA3 independent topics will also be taken.

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

**S3-252102 Discussion paper on SA3 R20 work plan**

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

**Discussion:**

ORANGE didn’t agree on starting from security areas defined back in 5G.

The Chair commented that there were only 5 topics proposed in the contribution.

ORANGE: organize the areas in the SID firstly.

Apple: this proposal is like a framework and the proposals from companies can be categorised in different areas.

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

**S3-252186 LGE View on 6G study**

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

**Discussion:**

Apple: AI based framework?

LG: some features will rely on AI. This is a generic term.

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

**S3-252204 Revised WID on security support for the Next Generation Real Time Communication services Phase 2**

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

**Decision:** The document was **revised to S3-252349**.

**S3-252349 Revised WID on security support for the Next Generation Real Time Communication services Phase 2**

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

(Replaces S3-252204)

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

**S3-252253 6G security SID discussion**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC.*

**Abstract:**

This tdoc provides some background information to be considered for the discussion on the 6G security SID.

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

### 6.2 5G-Advance SID/WIDs

**S3-251829 New WID on mission critical security enhancements for release 20**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Germany*

**Abstract:**

New WID on mission critical security enhancements for release 20

**Decision:** The document was **revised to S3-252353**.

**S3-252353 New WID on mission critical security enhancements for release 20**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Germany*

(Replaces S3-251829)

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

**S3-251838 Security related Events Handling**

*Type: WID new For: Approval  
 Source: Vodafone, AT&T, BT, Charter Communications, Deutsche Telekom, Ericsson, IIT Bombay, KDDI, Nokia, NTT DOCOMO, Orange, Telecom Italia, Telefonica, T-Mobile USA, Verizon*

(Replaces S3-251131)

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

**S3-251859 Discussion on threats for CNF products and CNF SCAS Test Cases**

*Type: discussion For: Discussion  
 Source: BSI (DE), Montsecure*

**Decision:** The document was **revised to S3-252191**.

**S3-251864 Study on Transition of 3GPP Cryptographic Algorithms to PQC**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-251873 Discussion on Transition to PQC**

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

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

**S3-251891 New SID on AIMLE Service Security**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S3-252395**.

**S3-252395 New SID on AIMLE Service Security**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-251891)

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

**S3-251900 Draft Technical Specification; Security related Events Handling**

*Type: other For: Information  
 Source: Pairpoint*

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

**S3-251904 Discussion on Security Aspects for IMS resiliency study**

*Type: discussion For: Discussion  
 Source: KDDI, Boost Mobile Network*

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

**S3-251905 New SID on Security Aspects for IMS resiliency**

*Type: SID new For: Approval  
 Source: KDDI, AT&T, Boost Mobile Network, Deutsche Telekom, SK Telecom, SoftBank, TOYOTA MOTOR CORPORATION, Rakuten Mobile, Verizon, vivo, Vodafone*

**Discussion:**

The Chair commented that signal congestion seemed to be more in scope of RAN4 and that specific work for SA3 was not clear. The time budget for this needed to be clarified.

ORANGE: avoid doing something before knowing what SA2 will do about it. I'm in favour of this but let's wait for their feedback. This is related to the LS in tdoc 1820, which they will reply to during this week.

AT&T supported this and considered a high priority for 5GA based on network performance issues.

ORANGE: the objectives need to reduce the scope. Mark "no" on the UICC apps impact.

**Decision:** The document was **revised to S3-252352**.

**S3-252352 New SID on Security Aspects for IMS resiliency**

*Type: SID new For: Approval  
 Source: KDDI, AT&T, Boost Mobile Network, Deutsche Telekom, SK Telecom, SoftBank, TOYOTA MOTOR CORPORATION, Rakuten Mobile, Verizon, vivo, Vodafone*

(Replaces S3-251905)

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

**S3-251910 New WID on PRINS Refinement**

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

**Discussion:**

Telecom Italia, Vodafone: we will support once we have a clear agreement in GSMA.

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

**S3-251911 New SID on Security Plane for collection and transport of security data**

*Type: SID new For: Approval  
 Source: OTD\_US*

**Abstract:**

This SID proposes a study on a new Security Plane for collection and transport of security/security related data from NFs.

**Discussion:**

Huawei: not clear what gaps we have currently have in SBA/SBIs. Is the objective to have a new interface?

Vodafone: better to wait for the next generation to study how the new framework for this sensitive secure data would work for all interfaces.

Charter:delivering secure data in a secure manner to secure locations makes sense.

**Decision:** The document was **revised to S3-252361**.

**S3-252361 New SID on Security Plane for collection and transport of security data**

*Type: SID new For: Approval  
 Source: OTD\_US*

(Replaces S3-251911)

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

**S3-251928 New Study on Indirect Communication Security**

*Type: SID new For: Approval  
 Source: MITRE-FFRDC*

**Abstract:**

New SID to enhance security of indirect communication

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

**S3-251956 New SID on Security Aspect for NR Femto Phase 2**

*Type: SID new For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-252419**.

**S3-252419 New SID on Security Aspect for NR Femto Phase 2**

*Type: SID new For: Approval  
 Source: ZTE Corporation*

(Replaces S3-251956)

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

**S3-251957 discussion paper on the MAC layer security**

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

**Discussion:**

ZTE: normative work would go for 6G, not 5GA.

NTT-Docomo: this should be discussed as an independent 6G Study Item.

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

**S3-251958 New SID on MAC layer security**

*Type: SID new For: Approval  
 Source: ZTE Corporation*

**Discussion:**

Qualcomm: there is a RAN dependency that needs to be taken into account.

Intel: protocol stack may look different in 6G.

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

**S3-251965 New SID on Security aspects of WAB nodes for NR**

*Type: SID new For: (not specified)  
 Source: Nokia, ZTE*

**Decision:** The document was **revised to S3-252418**.

**S3-252418 New SID on Security aspects of WAB nodes for NR**

*Type: SID new For: -  
 Source: Nokia, ZTE*

(Replaces S3-251965)

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

**S3-251967 Discussion on Security Aspect for NR Femto Phase 2**

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

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

**S3-251983 Discussion paper on PQC migration**

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

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

**S3-251985 Discussion paper on security for PLMN hosting a NPN phase 2**

*Type: discussion For: Discussion  
 Source: China Telecommunications Corp.,ZTE*

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

**S3-251986 New SID on security for PLMN hosting a NPN phase 2**

*Type: SID new For: Approval  
 Source: China Telecommunications Corp.,ZTE, China Unicom, China Mobile*

**Decision:** The document was **revised to S3-252420**.

**S3-252420 New SID on security for PLMN hosting a NPN phase 2**

*Type: SID new For: Approval  
 Source: China Telecommunications Corp.,ZTE, China Unicom, China Mobile*

(Replaces S3-251986)

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

**S3-251987 New SID on Security Aspects for Evolved Residential Gateways Accessing to 5G Core Network**

*Type: SID new For: Approval  
 Source: China Unicom, Huawei, HiSilicon*

**Discussion:**

Nokia: this requires a change in architecture.This was brought into SA2 and it was not agreed in there.

Huawei: This study is needed because there are SA1 security requirements.

AT&T: premature, we would be working on something that could be changed by SA2.

China Unicom: our proposal in SA2 wasn’t agreed because it was said that work should be started in SA3.

Thales: wait for SA2 work. Let's not work on an architecture that will be changed later.

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

**S3-251996 new SID on security aspects for QUIC or TLS**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

NCSC: we don’t see the work in WT2.

CableLabs: SA2 introduced this feature in Rel-18. Roaming is not being considered here.

Nokia supported this SID.

NTT-Docomo: why the two alternatives?

CableLabs: we can live without WT1 but we want WT2.

**Decision:** The document was **revised to S3-252354**.

**S3-252354 new SID on security aspects for QUIC or TLS**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-251996)

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

**S3-251997 Discussion paper on security aspects for QUIC or TLS**

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

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

**S3-252005 New SID on security aspect of Sensing**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-252006 Discussion on security aspects of Sensing**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon, Xiaomi*

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

**S3-252012 New WID on SCAS**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon,Huawei, HiSilicon, BSI (DE), China Telecom, China Mobile, Keysight Technologies UK Ltd., Nokia, Nokia Shanghai Bell, China Unicom, CATT, CAICT*

**Discussion:**

Ericsson: keep the WID open more time in Rel-20. Rel-20 will go all the way to 2027.

Huawei: we prefer to leave more space to other topics. NESAS relies on this and they cannot be waiting for so long.

Nokia: we closed too early our last SCAS WID and we couldn’t put new things in, let's learn from this.

Huawei: we agreed to close the WID, it wasn’t forced. We can always change the deadlines.

**Decision:** The document was **revised to S3-252350**.

**S3-252350 New WID on SCAS**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon,Huawei, HiSilicon, BSI (DE), China Telecom, China Mobile, Keysight Technologies UK Ltd., Nokia, Nokia Shanghai Bell, China Unicom, CATT, CAICT*

(Replaces S3-252012)

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

**S3-252027 New SID on Security of AIML\_Ph2**

*Type: SID new For: Approval  
 Source: vivo, CMCC*

**Discussion:**

Ericsson: consider user consent here.

**Decision:** The document was **revised to S3-252356**.

**S3-252356 New SID on Security of AIML\_Ph2**

*Type: SID new For: Approval  
 Source: vivo, CMCC*

(Replaces S3-252027)

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

**S3-252065 New SID on enhanced security management service about security policy provisioning**

*Type: SID new For: Agreement  
 Source: China Mobile, ZTE, CATT, Johns Hopkins University APL, CAICT, CableLabs, Nokia, China Unicom, China Telecom*

**Decision:** The document was **revised to S3-252357**.

**S3-252357 New SID on enhanced security management service about security policy provisioning**

*Type: SID new For: Agreement  
 Source: China Mobile, ZTE, CATT, Johns Hopkins University APL, CAICT, CableLabs, Nokia, China Unicom, China Telecom*

(Replaces S3-252065)

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

**S3-252069 New SID on security aspects of Integrated Sensing and Communication**

*Type: SID new For: Approval  
 Source: Xiaomi, China Telecom, China Mobile, ZTE, Lenovo, CableLabs*

**Discussion:**

Qualcomm: the rescoping of the whole project should be done at Plenary level.

Huawei: this should go for June Plenary, otherwise it will be too late.

**Decision:** The document was **revised to S3-252355**.

**S3-252355 New SID on security aspects of Integrated Sensing and Communication**

*Type: SID new For: Approval  
 Source: Xiaomi, China Telecom, China Mobile, ZTE, Lenovo, CableLabs*

(Replaces S3-252069)

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

**S3-252079 Discussion on R20 5G-A CAPIF security enhencements**

*Type: discussion For: Discussion  
 Source: Xiaomi communications*

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

**S3-252087 New SID on 5G Security Assurance Specification (SCAS) for the Container-based Products**

*Type: SID new For: Agreement  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, BSI*

**Discussion:**

Huawei was concerned with the timeline. It should be consistent with the Rel-20 SCAS.

**Decision:** The document was **revised to S3-252358**.

**S3-252358 New SID on 5G Security Assurance Specification (SCAS) for the Container-based Products**

*Type: SID new For: Agreement  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, BSI*

(Replaces S3-252087)

**Discussion:**

It was clarified that the TU estimate (Normative) had to be zero in this and other SIDs endorsed.

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

**S3-252133 New SID on Security Aspects of 5G Satellite Access Phase 4**

*Type: SID new For: Approval  
 Source: CATT, China Unicom*

**Discussion:**

Interdigital: time units are not realistic.

NTT-Docomo: More details are needed for WT2 to limit the scope.

It was commented by Novamint that Store and forward is implemented already in satellites. One issue is to scale it so as not to use always the same satellite for the UE.

Ericsson didn’t agree with WT1: it was premature and speculative.

**Decision:** The document was **revised to S3-252359**.

**S3-252359 New SID on Security Aspects of 5G Satellite Access Phase 4**

*Type: SID new For: Approval  
 Source: CATT, China Unicom*

(Replaces S3-252133)

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

**S3-252134 New WID on Security Aspects of Proximity based Services in NPNs**

*Type: WID new For: (not specified)  
 Source: China Telecom Corporation Ltd.*

**Discussion:**

ORANGE: discussion is needed to know what will be informative and will be normative.

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

**S3-252154 Study on Post-Quantum Cryptography in 3GPP profiles for cryptographic algorithms and security protocols**

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

**Discussion:**

Qualcomm, ORANGE supported this SID.

Cisco: reuse the inventory from the study.

There were two overlapping studies on PQC (2154 and 864) and the Chair asked the companies to agree on a merge.

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

**S3-252191 Discussion on threats for CNF products and CNF SCAS Test Cases**

*Type: discussion For: Discussion  
 Source: BSI (DE)*

(Replaces S3-251859)

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

**S3-252235 Discussion on work split SA3 and SA6 on user consent topic**

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

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

**S3-252236 DP related to FS\_5GSAT\_Ph4\_SEC concerning NAS counters handling in multi-satellite S&F operation**

*Type: discussion For: Approval  
 Source: Sateliot, Novamint*

**Abstract:**

This contribution is revision and follow up of S3-250932. It discusses an issue related to the handling of the NAS counters in S&F Satellite operation when a UE registration is valid in multiple satellites, as is the case of split-MME architectures, and p

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

**S3-252238 Mini WID for Roaming and interconnect authorization aspects in indirect communication**

*Type: WID new For: (not specified)  
 Source: Nokia*

**Discussion:**

MCC commented that the two CRs associated should have the DUMMY WID code on the cover pages to link them to this mini WID. The cover pages need to be changed.

The table on 2.2 is also wrong.

**Decision:** The document was **revised to S3-252351**.

**S3-252351 Mini WID for Roaming and interconnect authorization aspects in indirect communication**

*Type: WID new For: -  
 Source: Nokia*

(Replaces S3-252238)

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

**S3-252360 Study on Preparing for Transition to Post Quantum Cryptography in 3GPP**

*Type: SID new For: Agreement  
 Source: Nokia, Ericsson*

**Discussion:**

Discussions on whether this is applicable for 5GA or 6G. The Chair proposed to have that decision at the end of the study considering the SID as a diagnostics.

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

### 6.3 6G SID/WIDs

**S3-251861 New SID on Security Infrastructure Support for 6G Core Network**

*Type: discussion For: Discussion  
 Source: Johns Hopkins University APL*

**Abstract:**

Two slides covering SID overview and scenarios

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

**S3-251862 New Study on Security Infrastructure Support for 6G Core Network**

*Type: SID new For: Endorsement  
 Source: Johns Hopkins University APL*

**Abstract:**

New SID on Security Infrastructure Support for 6G Core Network

**Discussion:**

Ericsson: objectives are too broad.

GSMA: we are not keen on this in 3GPP. We are concerned that this will produce market fragmentation and it shouldn’t be done in 3GPP. This could interfere with the carrier roaming agreement process.

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

**S3-251892 New SID on Secure UE Identification and Network Access**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility*

**Discussion:**

ORANGE: concerned if we started having a single identifier for the UE.

Nokia: it should be part of a 6G set. We did some part of WT2 a few years back.

Apple: it should be part of the 6G study.Huawei agreed with this.

Ericsson: WT2 is too open ended.

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

**S3-251893 Discussion on Secure UE Identification and Network Access**

*Type: SID new For: Discussion  
 Source: Lenovo, Motorola Mobility*

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

**S3-251961 New SID on inter-PLMN and intra-PLMN security in 6G**

*Type: SID new For: (not specified)  
 Source: China Mobile*

**Discussion:**

Aigned with John Hopkins proposal.

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

**S3-251966 Discussion paper on security of RRC initial access**

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

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

**S3-252013 6G Security SID process and scope discussion**

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

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

**S3-252015 New SID on supporting AEAD algorithms**

*Type: SID new For: Approval  
 Source: KDDI Corporation*

**Decision:** The document was **revised to S3-252066**.

**S3-252016 Discussion paper on supporting AEAD algorithms**

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

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

**S3-252028 Discussion Paper on Potential 6G Independent Security Areas**

*Type: discussion For: Discussion  
 Source: vivo*

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

**S3-252066 New SID on supporting AEAD algorithms**

*Type: SID new For: Approval  
 Source: KDDI Corporation*

(Replaces S3-252015)

**Discussion:**

Qualcomm:separate the MAC, focus on the AEAD implementation.

**Decision:** The document was **revised to S3-252362**.

**S3-252362 New SID on supporting AEAD algorithms**

*Type: SID new For: Approval  
 Source: KDDI Corporation*

(Replaces S3-252066)

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

**S3-252135 Security Consideration for Integrated Sensing and Communication**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**S3-252190 Security consideration for MAC CE and lower layers**

*Type: discussion For: Endorsement  
 Source: OPPO*

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

**S3-252192 Study on Security Aspects of Lower Layers**

*Type: SID new For: Agreement  
 Source: OPPO*

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

## 7 CVD and research

## 8 Any Other Business

Elections to SA3 WH Chair took place during this meeting.

Dr. Alf ZUGENMAIER NTT DOCOMO INC.and Mr. Rajavelsamy RAJADURAI (Samsung) were the candidates.

Mr. Rajavelsamy RAJADURAI (Samsung) was elected Chair after Alf withdrew of the 2nd ballot.

This was the last meeting of Suresh Nair as SA3 Chair. The group thanked him for the hard work during the last 4 years, they gave him a few gifts and wished him

**S3-251814 SA3 meeting calendar**

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

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

**S3-251871 Handling of ETSI-SAGE documents**

*Type: discussion For: Information  
 Source: Rapporteur of the 256-Algo WI, MCC*

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

**S3-252391 SA3 initial plan for 6G study**

*Type: other For: Discussion  
 Source: WG Chair (Samsung)*

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-251810 | Agenda | SA WG3 Chair | approved |  |  |
| S3-251811 | Report from SA3#121 | MCC | revised |  | S3-252105 |
| S3-251812 | Process for SA3#122 | SA WG3 Chair | noted |  |  |
| S3-251813 | Detailed agenda planning | SA WG3 Chair | noted |  |  |
| S3-251814 | SA3 meeting calendar | SA WG3 Chair | withdrawn |  |  |
| S3-251815 | LS on Device Subscription Data | S2-2501242 | replied to |  |  |
| S3-251816 | Reply to LS on IMS support for AF authorization and IMS avatar communication | S2-2502434 | replied to |  |  |
| S3-251817 | LS on the scope attribute of the access token standard claims | S5-251112 | replied to |  |  |
| S3-251818 | Reply LS on secure storage and processing of credentials for AIoT | ETSI TC SET | postponed |  |  |
| S3-251819 | Reply LS on including the HPLMN ID in the PC5 discovery messages for 5G ProSe UE-to-UE relay | C1-252256 | noted |  |  |
| S3-251820 | LS on feedback for IMS resiliency study | C4-251492 | noted |  |  |
| S3-251821 | LS to 3GPP SA3 re Adoption of TS 33.520, 33.528, 33.529, 33.530 and 33.537 as NESAS SCASes | GSMA | replied to |  |  |
| S3-251822 | LS on AI/ML UE sided data collection | R2-2503168 | noted |  |  |
| S3-251823 | Reply LS on signalling feasibility of dataset and parameter sharing | R2-2503169 | noted |  |  |
| S3-251824 | Reply LS for Reply LS on security handling for inter-CU LTM in non-DC cases | R3-252449 | noted |  |  |
| S3-251825 | Reply LS on Privacy and security aspects regarding DC management by the network | S2-2504207 | noted |  |  |
| S3-251826 | LS on AIoT device identifier length | S2-2504296 | noted |  |  |
| S3-251827 | Reply LS on OSAppID usage by AppToken use case | S2-2504468 | noted |  |  |
| S3-251828 | LS on Management of secure backhaul for NTN | S5-251990 | noted |  |  |
| S3-251829 | New WID on mission critical security enhancements for release 20 | Motorola Solutions Germany | revised |  | S3-252353 |
| S3-251830 | LS on LP-WUS subgrouping progress | R2-2503182 | noted |  |  |
| S3-251831 | Reply LS to S3-251226 LS on the scope attribute of the access token standard claims | Nokia | noted | S3-251671 |  |
| S3-251832 | LS on Towards a common definition of Zero Trust | ITU-T Study Group 17 | replied to |  |  |
| S3-251833 | LS on Avatar Security Aspects | S4-250715 | replied to |  |  |
| S3-251834 | Living document for TEI19: Token-based authorization for indirect communication scenarios when NF is selected at target PLMN | Ericsson, Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-251835 | Token-based authorization for indirect communication scenarios when NF is selected at target PLMN | Ericsson, Nokia | agreed |  |  |
| S3-251836 | Living document for TEI19: Public key distribution and Issuer claim verification of the Access Token | Ericsson, Nokia, Nokia Shanghai Bell, NCSC | revised |  | S3-252270 |
| S3-251837 | TCG progress - report from TCG rapporteur | InterDigital Finland | noted |  |  |
| S3-251838 | Security related Events Handling | Vodafone, AT&T, BT, Charter Communications, Deutsche Telekom, Ericsson, IIT Bombay, KDDI, Nokia, NTT DOCOMO, Orange, Telecom Italia, Telefonica, T-Mobile USA, Verizon | agreed | S3-251131 |  |
| S3-251839 | LS on establishment of a new work item Technical Report ITU-T TR.FMSC-IMT2030 “Security technologies of fixed, mobile and satellite convergence for IMT-2030 networks” | ITU-T SG17 | noted |  |  |
| S3-251840 | LS on the establishment of a new work item ITU-T X.s-isac “Security guidelines for integrated sensing and communication in IMT-2020 networks and beyond” | ITU-T SG17 | noted |  |  |
| S3-251841 | LS on the establishment of a new work item ITU-T X.uc-zt-5g “Security threats associated with use cases for applying zero trust to IMT-2020 private network deployments” | ITU-T SG17 | noted |  |  |
| S3-251842 | O-RAN ALLIANCE – 3GPP collaboration on PQC | O-RAN | postponed |  |  |
| S3-251843 | LS on LI requirements on IMS Data Channel | s3i250185 | noted |  |  |
| S3-251844 | Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | MCC | agreed |  |  |
| S3-251845 | Living CR on Finer level authorization | Nokia, Huawei | revised |  | S3-252404 |
| S3-251846 | Minor editorial corrections and clean-up | IIT Bombay | merged |  | S3-252319 |
| S3-251847 | Correction of test names and clean up of 33.117 | BSI (DE) | revised |  | S3-252320 |
| S3-251848 | Clean up and correction of test names in 33.216 | BSI (DE) | revised |  | S3-252321 |
| S3-251849 | Addition of test names and Clean up of 33.511 | BSI (DE) | revised |  | S3-252322 |
| S3-251850 | Correction of test names and clean up of 33.513 | BSI (DE) | agreed |  |  |
| S3-251851 | Clean up of 33.514 | BSI (DE) | agreed |  |  |
| S3-251852 | Correction of test names and clean up of 33.515 | BSI (DE) | agreed |  |  |
| S3-251853 | Addition of test name and clean up of 33.517 | BSI (DE) | agreed |  |  |
| S3-251854 | Clean up of 33.523 | BSI (DE) | agreed |  |  |
| S3-251855 | Clean up of 33.527 and correction of test names | BSI (DE) | agreed |  |  |
| S3-251856 | Clean up of 33.529 | BSI (DE) | agreed |  |  |
| S3-251857 | Correction of test case and clean up of 33.512 | BSI (DE) | revised |  | S3-252323 |
| S3-251858 | Living Document to 33.512 AMF | BSI (DE), Montsecure | noted |  |  |
| S3-251859 | Discussion on threats for CNF products and CNF SCAS Test Cases | BSI (DE), Montsecure | revised |  | S3-252191 |
| S3-251860 | Cryptographic Inventory Table update for MIKEY-SAKKE | NIST | revised |  | S3-252333 |
| S3-251861 | New SID on Security Infrastructure Support for 6G Core Network | Johns Hopkins University APL | noted |  |  |
| S3-251862 | New Study on Security Infrastructure Support for 6G Core Network | Johns Hopkins University APL | noted |  |  |
| S3-251863 | Living document for Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA) | Cisco Systems, Huawei, US National Security Agency, Charter Communications, Google, Johns Hopkins University APL | revised |  | S3-252275 |
| S3-251864 | Study on Transition of 3GPP Cryptographic Algorithms to PQC | Nokia, Nokia Shanghai Bell | merged |  | S3-252360 |
| S3-251865 | Selection of authentication mode for MRI in forwarded mode | Nokia | merged |  | S3-252307 |
| S3-251866 | [33.180] Alignment of Logging Recording and Audit | Airbus | revised |  | S3-252348 |
| S3-251867 | Minor editorial modification | IIT Bombay | agreed |  |  |
| S3-251868 | Living CR on Nested API | Ericsson, Samsung, Xiaomi, Nokia | revised |  | S3-252407 |
| S3-251869 | Living CR on Cross UE authorization | Xiaomi Communications | revised |  | S3-252406 |
| S3-251870 | Living CR on RO authorization | Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson | revised |  | S3-252402 |
| S3-251871 | Handling of ETSI-SAGE documents | Rapporteur of the 256-Algo WI, MCC | not treated |  |  |
| S3-251872 | ZUC number of initialisation rounds | Nokia | revised |  | S3-252266 |
| S3-251873 | Discussion on Transition to PQC | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-251874 | Tables Content for ECIES | Nokia, Nokia Shanghai Bell | revised |  | S3-252334 |
| S3-251875 | Tables Content for PKI | Nokia, Nokia Shanghai Bell | revised |  | S3-252336 |
| S3-251876 | Tables Content for OCSP | Nokia, Nokia Shanghai Bell | revised |  | S3-252337 |
| S3-251877 | Tables Content for COSE | Nokia, Nokia Shanghai Bell | revised |  | S3-252415 |
| S3-251878 | Tables Content for KDF | Nokia, Nokia Shanghai Bell | merged |  | S3-252334 |
| S3-251879 | Tables Content for EAP-TLS | Nokia, Nokia Shanghai Bell | revised |  | S3-252338 |
| S3-251880 | Editorial Modifications | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-251881 | Terms and Definitions | Nokia, NIST | revised |  | S3-252330 |
| S3-251882 | Coverpage for TR Cryptographic Inventory | Nokia, Nokia Shanghai Bell | revised |  | S3-252417 |
| S3-251883 | Living CR for Onboarding API Invoker Residing in the UE | Lenovo, Nokia, Ericsson | revised |  | S3-252408 |
| S3-251884 | Correction to f5\*\* description | Thales, Ericsson | agreed |  |  |
| S3-251885 | Discussion paper on Security threats with Onboarding Procedure | Lenovo, Motorola Mobility, Nokia | noted |  |  |
| S3-251886 | Onboarding API Invoker Residing in the UE | Lenovo, Nokia | revised |  | S3-252311 |
| S3-251887 | Updates to security procedure for CAPIF interconnection | Lenovo | merged |  | S3-252293 |
| S3-251888 | Updates to Living CR on RO authorization | Lenovo | merged |  | S3-252290 |
| S3-251889 | AIMLE Security Alignment | Lenovo | agreed |  |  |
| S3-251890 | Living CR on Interconnection | Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson | revised |  | S3-252405 |
| S3-251891 | New SID on AIMLE Service Security | Lenovo, Motorola Mobility | revised |  | S3-252395 |
| S3-251892 | New SID on Secure UE Identification and Network Access | Lenovo, Motorola Mobility | noted |  |  |
| S3-251893 | Discussion on Secure UE Identification and Network Access | Lenovo, Motorola Mobility | noted |  |  |
| S3-251894 | Living CR on revocation | China Telecom Corporation Ltd. | revised |  | S3-252403 |
| S3-251895 | KI#3, New Merged Solution | Sony, OPPO | noted |  |  |
| S3-251896 | KI#3, Update Conclusions | Sony, OPPO | noted |  |  |
| S3-251897 | Procedure for Protection of AIoT device identifier privacy | Sony, OPPO | revised |  | S3-252326 |
| S3-251898 | LS on Avatar Security Aspects | Nokia, Nokia Shanghai Bell | revised |  | S3-252296 |
| S3-251899 | Wrong test steps for IPSec testing in N2/Xn | Keysight Technologies UK Ltd | not pursued |  |  |
| S3-251900 | Draft Technical Specification; Security related Events Handling | Pairpoint | noted |  |  |
| S3-251901 | IANA registrations | Cisco Systems | revised |  | S3-252399 |
| S3-251902 | Acquiring an authority token | Cisco Systems | approved |  |  |
| S3-251903 | Security Environment, Living document for security aspects of 5G satellite access phase 3 | InterDigital Finland Oy, Samsung, T-Mobile USA | merged |  | S3-252278 |
| S3-251904 | Discussion on Security Aspects for IMS resiliency study | KDDI, Boost Mobile Network | noted |  |  |
| S3-251905 | New SID on Security Aspects for IMS resiliency | KDDI, AT&T, Boost Mobile Network, Deutsche Telekom, SK Telecom, SoftBank, TOYOTA MOTOR CORPORATION, Rakuten Mobile, Verizon, vivo, Vodafone | revised |  | S3-252352 |
| S3-251906 | Pseudo-CR on Update AIOT sol#37 | Xidian University | revised |  | S3-252372 |
| S3-251907 | AIoT authentication procedure based on stored nonces | KPN N.V. | merged |  | S3-252279 |
| S3-251908 | AIoT baseline requirements | KPN N.V. | noted |  | - |
| S3-251909 | Resolving ENs in Solution #42 | KPN N.V. | revised |  | S3-252414 |
| S3-251910 | New WID on PRINS Refinement | CableLabs | noted |  |  |
| S3-251911 | New SID on Security Plane for collection and transport of security data | OTD\_US | revised |  | S3-252361 |
| S3-251912 | Summary of NWM discussion on R-20 planning | NTT DOCOMO INC. | noted |  |  |
| S3-251913 | Avatar Identification and mapping within BAR | Vodafone Ireland Plc | noted |  |  |
| S3-251914 | Pseudo-CR on AIoT temporary ID requirement | NTT DOCOMO INC. | revised |  | S3-252283 |
| S3-251915 | Update of KI#3 | NTT DOCOMO INC. | revised |  | S3-252390 |
| S3-251916 | LS on power and energy consumption budget for security features in AioT | ORANGE | revised |  | S3-252335 |
| S3-251917 | AIoT - Subscription Credentials Storage and Processing | Orange Belgium | withdrawn |  |  |
| S3-251918 | AIoT - Subscription Credentials Storage and Processing | Orange Belgium | revised |  | S3-252262 |
| S3-251919 | update AIOT KI#3 | OPPO | noted |  | - |
| S3-251920 | Update AIOT sol#24 | OPPO | revised |  | S3-252367 |
| S3-251921 | Update AIOT conclusion#3 | OPPO | merged |  | S3-252381 |
| S3-251922 | Content to 4.2.2 requirement on the AIOTF | OPPO | merged |  | S3-252309 |
| S3-251923 | pCR to TR33.713 Remove EN in solution#9 | CATT | revised |  | S3-252363 |
| S3-251924 | Correction of TC on replay protection | MITRE-FFRDC | not pursued |  |  |
| S3-251925 | pCR to TR33.713 Remove EN in solution#30 | CATT | revised |  | S3-252369 |
| S3-251926 | Content to 4.2.1 requirement on the device | OPPO | merged |  | S3-252282 |
| S3-251927 | Content to 5.5 protection between AIOT network elements | OPPO | merged |  | S3-252281 |
| S3-251928 | New Study on Indirect Communication Security | MITRE-FFRDC | noted |  |  |
| S3-251929 | Update security for data collection for the LMF-based AIML positioning | OPPO | revised |  | S3-252409 |
| S3-251930 | Security mechanism and procedures for inter-CU LTM in non-DC | OPPO | merged |  | S3-252272 |
| S3-251931 | Addition on revocation procedure | CATT | merged |  | S3-252291 |
| S3-251932 | Updates to living Draft CR on CAPIF nested API | CATT | merged |  | S3-252294 |
| S3-251933 | Updates to living Draft CR on RO authorization | CATT | merged |  | S3-252290 |
| S3-251934 | Add clause 6.3 in the Kaf derivation descriptions - R17 | ZTE | agreed |  |  |
| S3-251935 | Add clause 6.3 in the Kaf derivation descriptions - R18Mirror | ZTE | agreed |  |  |
| S3-251936 | update to AKMA based mechanism | ZTE Corporation | not pursued |  |  |
| S3-251937 | Add PCAP traces in clause 4.2.2.1 | ZTE | merged |  | S3-252324 |
| S3-251938 | Update conclusion for KI#1 | ZTE Corporation | revised |  | S3-252284 |
| S3-251939 | Update security machanism and procedures for inter-CU LTM | ZTE Corporation | merged |  | S3-252272 |
| S3-251940 | resolving EN for Authentication and authorization for digital asset services | ZTE Corporation | merged |  | S3-252315 |
| S3-251941 | resolving EN for Authentication and authorization for spatial localization services | ZTE Corporation | approved |  |  |
| S3-251942 | resolving EN for Privacy protection for user information exposure | ZTE Corporation | revised |  | S3-252316 |
| S3-251943 | pCR against draft CR on Authentication and Authorization for CAPIF RNAA interconnection | ZTE Corporation | merged |  | S3-252293 |
| S3-251944 | resolving EN for Method 3 TLS with OAuth Token | ZTE Corporation | merged |  | S3-252293 |
| S3-251945 | resolving EN for Resource Owner authentication revocation | ZTE Corporation | merged |  | S3-252291 |
| S3-251946 | Update figures of the living document for AIML\_CN\_SEC | ZTE Corporation | revised |  | S3-252304 |
| S3-251947 | Add a clause about requirement on AIoT Reader | ZTE Corporation | revised |  | S3-252310 |
| S3-251948 | Update the clause 4.2.1 Requirements on the device | ZTE Corporation | merged |  | S3-252282 |
| S3-251949 | Update the clause 4.2.2 Requirements on the AIOTF | ZTE Corporation | merged |  | S3-252309 |
| S3-251950 | Update the clause 5.2 Authentication procedure | ZTE Corporation | merged |  | S3-252279 |
| S3-251951 | Update the clause 5.3 | ZTE Corporation | merged |  | S3-252280 |
| S3-251952 | Update the clause 5.5 Protection between AIoT network element | ZTE Corporation | revised |  | S3-252281 |
| S3-251953 | update sol#6 | ZTE Corporation | approved |  |  |
| S3-251954 | new solution to KI#3 | ZTE Corporation | not treated |  |  |
| S3-251955 | resolving ENs in sol#25 in TR 33.713 | ZTE Corporation | revised |  | S3-252368 |
| S3-251956 | New SID on Security Aspect for NR Femto Phase 2 | ZTE Corporation | revised |  | S3-252419 |
| S3-251957 | discussion paper on the MAC layer security | ZTE Corporation | noted |  |  |
| S3-251958 | New SID on MAC layer security | ZTE Corporation | noted |  |  |
| S3-251959 | Baseline pCR against Draft CR for KI#1.2 on revocation | China Telecom Corporation Ltd. | revised |  | S3-252291 |
| S3-251960 | KI#2 pCR on top of the baseline pCR- interconnect | China Telecom Corporation Ltd. | merged |  | S3-252293 |
| S3-251961 | New SID on inter-PLMN and intra-PLMN security in 6G | China Mobile | noted |  |  |
| S3-251962 | Alignment CR | Nokia | revised |  | S3-252305 |
| S3-251963 | LS reply on Avatar Security Aspects | CATT | merged |  | S3-252296 |
| S3-251964 | A summary report from offline calls for Rel-19 WI on 5GSAT\_Ph3\_SEC | Nokia | noted |  |  |
| S3-251965 | New SID on Security aspects of WAB nodes for NR | Nokia, ZTE | revised |  | S3-252418 |
| S3-251966 | Discussion paper on security of RRC initial access | Nokia | withdrawn |  |  |
| S3-251967 | Discussion on Security Aspect for NR Femto Phase 2 | ZTE Corporation | noted |  |  |
| S3-251968 | Reply LS to SA5 on token scope | Huawei, HiSilicon | merged |  | S3-252260 |
| S3-251969 | Reply LS on Management of secure backhaul for NTN | Huawei, HiSilicon | noted |  |  |
| S3-251970 | Reply LS on 3GPP collaboration on PQC | Huawei, HiSilicon | noted |  |  |
| S3-251971 | SA2 on UUAA during USS changeover | Huawei, HiSilicon | merged |  | S3-252263 |
| S3-251972 | KI#1.2 update RO authorization to address EN | Huawei, HiSilicon, Nokia | revised |  | S3-252290 |
| S3-251973 | KI#1.2 update revocation to address EN | Huawei, HiSilicon | merged |  | S3-252291 |
| S3-251974 | KI#1.3 updating text for finer level authorization | Huawei, HiSilicon, Nokia | revised |  | S3-252292 |
| S3-251975 | missing references and abbreviations | Huawei, HiSilicon | revised |  | S3-252331 |
| S3-251976 | descriptioin of EAP-TTLS | Huawei, HiSilicon | approved |  |  |
| S3-251977 | description of OAuth 2.0 | Huawei, HiSilicon | revised |  | S3-252346 |
| S3-251978 | Table content for EAP-TTLS | Huawei, HiSilicon | revised |  | S3-252416 |
| S3-251979 | Table content for OAuth 2.0 | Huawei, HiSilicon | revised |  | S3-252339 |
| S3-251980 | Table content for IKEv2 | Huawei, HiSilicon | revised |  | S3-252340 |
| S3-251981 | Table content for PDCP | Huawei, HiSilicon | approved |  |  |
| S3-251982 | Table content for NAS | Huawei, HiSilicon | approved |  |  |
| S3-251983 | Discussion paper on PQC migration | Huawei, HiSilicon | noted |  |  |
| S3-251984 | Security for PLMN hosting a NPN | China Telecom, ZTE | agreed |  |  |
| S3-251985 | Discussion paper on security for PLMN hosting a NPN phase 2 | China Telecommunications Corp.,ZTE | noted |  |  |
| S3-251986 | New SID on security for PLMN hosting a NPN phase 2 | China Telecommunications Corp.,ZTE, China Unicom, China Mobile | revised |  | S3-252420 |
| S3-251987 | New SID on Security Aspects for Evolved Residential Gateways Accessing to 5G Core Network | China Unicom, Huawei, HiSilicon | noted |  |  |
| S3-251988 | Updates for the handling of mismatched UE security context handling in non-DC cases | Huawei, HiSilicon | merged |  | S3-252272 |
| S3-251989 | Updates for the NCC transmission in LTM procedure | Huawei, HiSilicon | merged |  | S3-252272 |
| S3-251990 | security handling where CU is acting as MN and SN is unchanged | Huawei, HiSilicon | merged |  | S3-252272 |
| S3-251991 | Reply LS on security handling for inter-CU LTM in non-DC cases | Huawei, HiSilicon | revised |  | S3-252398 |
| S3-251992 | reply LS on Device Subscription Data | Huawei, HiSilicon | revised |  | S3-252259 |
| S3-251993 | Authentication procedure in AIoT service | Huawei, HiSilicon, Vivo | merged |  | S3-252279 |
| S3-251994 | Security protection between AIoT network elements | Huawei, HiSilicon | merged |  | S3-252281 |
| S3-251995 | removing the editor's note in solution 4 | Huawei, HiSilicon | approved |  |  |
| S3-251996 | new SID on security aspects for QUIC or TLS | Huawei, HiSilicon | revised |  | S3-252354 |
| S3-251997 | Discussion paper on security aspects for QUIC or TLS | Huawei, HiSilicon | noted |  |  |
| S3-251998 | Clarification for CMP over TLS | Huawei, HiSilicon | revised |  | S3-252267 |
| S3-251999 | Clarification for certificate lifecycle management | Huawei, HiSilicon | not pursued |  |  |
| S3-252000 | Discussion paper for certificate lifecycle management | Huawei, HiSilicon | noted |  |  |
| S3-252001 | Discussion paper of the certificate identifier for public key distribution | Huawei, HiSilicon | noted |  |  |
| S3-252002 | Clarification for CMP over TLS | Huawei, HiSilicon | revised |  | S3-252268 |
| S3-252003 | Various Editorial changes to the living CR | Huawei, HiSilicon | merged |  | S3-252305 |
| S3-252004 | Update NEF security requirement for Secure NF Instance ID | Huawei, HiSilicon | noted |  |  |
| S3-252005 | New SID on security aspect of Sensing | Huawei, HiSilicon | merged |  | S3-252355 |
| S3-252006 | Discussion on security aspects of Sensing | Huawei, HiSilicon, Xiaomi | noted |  |  |
| S3-252007 | Resolving EN in Annex of split MME by implementation | Huawei, HiSilicon | revised |  | S3-252278 |
| S3-252008 | Clarification about security for MC over IOPS | Huawei, HiSilicon | not pursued |  |  |
| S3-252009 | Fix the figures of CP-based multi-hop U2NW link setup | Huawei, HiSilicon | not pursued |  |  |
| S3-252010 | Clarification and editorial for multi-hop Relay scenarios | Huawei, HiSilicon | revised |  | S3-252273 |
| S3-252011 | Clarification to clause 4.1 | Huawei, Hisilicon,Nokia, ZTE | revised |  | S3-252274 |
| S3-252012 | New WID on SCAS | Huawei, HiSilicon,Huawei, HiSilicon, BSI (DE), China Telecom, China Mobile, Keysight Technologies UK Ltd., Nokia, Nokia Shanghai Bell, China Unicom, CATT, CAICT | revised |  | S3-252350 |
| S3-252013 | 6G Security SID process and scope discussion | Huawei, HiSilicon | noted |  |  |
| S3-252014 | Update service disabling procedure | China Mobile, ZTE | revised |  | S3-252393 |
| S3-252015 | New SID on supporting AEAD algorithms | KDDI Corporation | revised |  | S3-252066 |
| S3-252016 | Discussion paper on supporting AEAD algorithms | KDDI Corporation | noted |  |  |
| S3-252017 | Procedure for security handling for LTM | vivo | merged |  | S3-252272 |
| S3-252018 | New Sol KI#3, Combine UE-generated temp ID with network-assigned temp ID | vivo | not treated |  |  |
| S3-252019 | Conclusion update on KI#3 for AIoT privacy | vivo | revised |  | S3-252381 |
| S3-252020 | Remove EN for Sol#10 | vivo | revised |  | S3-252364 |
| S3-252021 | Remove EN for Sol#40 | vivo | revised |  | S3-252376 |
| S3-252022 | Remove EN for Sol#41 | vivo | revised |  | S3-252377 |
| S3-252023 | Security requirements on the AIOTF | vivo | revised |  | S3-252309 |
| S3-252024 | communication secuirty procedure | vivo | merged |  | S3-252280 |
| S3-252025 | Clarification on X.12.2 | vivo | revised |  | S3-252303 |
| S3-252026 | Discussion Paper on 6G NWM process and questions | vivo | noted |  |  |
| S3-252027 | New SID on Security of AIML\_Ph2 | vivo, CMCC | revised |  | S3-252356 |
| S3-252028 | Discussion Paper on Potential 6G Independent Security Areas | vivo | noted |  |  |
| S3-252029 | Resolution of EN in solution 35 concerning device constrains | Nokia | approved |  |  |
| S3-252030 | Refinement of EN in KI#5 | Nokia | revised |  | S3-252388 |
| S3-252031 | Proposal regarding AIOTF requirements. | Nokia | merged |  | S3-252309 |
| S3-252032 | Proposal regarding AIOT device requirements. | Nokia | noted |  |  |
| S3-252033 | Proposal regarding ADM requirements. | Nokia | noted |  |  |
| S3-252034 | Reply to: Reply LS on secure storage and processing of credentials for AIoT | Nokia | noted |  |  |
| S3-252035 | LS reply on Device Subscription Data | Nokia | merged |  | S3-252259 |
| S3-252036 | Living document on Metaverse\_Sec | Samsung | revised |  | S3-252318 |
| S3-252037 | Updates to security procedure for CAPIF interconnection | Samsung, Xiaomi, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, CATT | revised |  | S3-252293 |
| S3-252038 | Resolving EN on API invoker authentication during access token request | Samsung | merged |  | S3-252293 |
| S3-252039 | pCR for authentication and authorization for RNAA in CAPIF interconnection scenario | Samsung | merged |  | S3-252293 |
| S3-252040 | Resolving Editor's Note in Revocation clause | Samsung | merged |  | S3-252291 |
| S3-252041 | pCR to update CAPIF nested API authorization procedure | Samsung | merged |  | S3-252294 |
| S3-252042 | pCR on Tables Content for IPsec ESP protocol | Samsung | revised |  | S3-252341 |
| S3-252043 | DoS attack remediation in S&F operation | Samsung, Johns Hopkins University Applied Physics Lab, Philips, Intel, Interdigital | merged |  | S3-252278 |
| S3-252044 | Resolving EN in KI#2 conclusion | Samsung | merged |  | S3-252298 |
| S3-252045 | Resolving EN related to impersonation | Samsung | merged |  | S3-252298 |
| S3-252046 | pCR on resolving EN on solution #22 | Samsung | approved |  |  |
| S3-252047 | pCR on evaluation update on solution #22 | Samsung | revised |  | S3-252366 |
| S3-252048 | pCR on converting EN into NOTE in solution #22 | Samsung | approved |  |  |
| S3-252049 | pCR on resolving EN on solution #38 | Samsung | revised |  | S3-252373 |
| S3-252050 | pCR on evaluation update on solution #38 | Samsung | revised |  | S3-252374 |
| S3-252051 | Security requirements on AIoT device | Samsung | merged |  | S3-252282 |
| S3-252052 | Security requirements on AIoTF | Samsung | merged |  | S3-252309 |
| S3-252053 | Living document on NR mobility enhancement | Samsung | revised |  | S3-252285 |
| S3-252054 | Security procedure for inter-CU LTM | Samsung | revised |  | S3-252272 |
| S3-252055 | Adding support for multiple USSs | Qualcomm Incorporated, InterDigital, Ericsson, Huawei | revised |  | S3-252314 |
| S3-252056 | Living document for AIML\_CN\_SEC | China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT | revised |  | S3-252306 |
| S3-252057 | Editorial changes for Living document | China Mobile | merged |  | S3-252305 |
| S3-252058 | Evaluation for Sol#45 in TR 33.713 | China Mobile | revised |  | S3-252379 |
| S3-252059 | Resolve EN of sequence number of figure in Sol#45 in TR 33.713 | China Mobile | approved |  |  |
| S3-252060 | Resolve ENs  in Sol#45 of TR 33.713 | China Mobile | revised |  | S3-252378 |
| S3-252061 | Update clause 5.1 of TS 33.369 | China Mobile | revised |  | S3-252410 |
| S3-252062 | Update clause 4.1 of TS 33.369 | China Mobile | noted |  |  |
| S3-252063 | Update clause 4.2.2  of TS 33.369 | China Mobile | merged |  | S3-252309 |
| S3-252064 | Update clause 5.4  of TS 33.369 | China Mobile | noted |  |  |
| S3-252065 | New SID on enhanced security management service about security policy provisioning | China Mobile, ZTE, CATT, Johns Hopkins University APL, CAICT, CableLabs, Nokia, China Unicom, China Telecom | revised |  | S3-252357 |
| S3-252066 | New SID on supporting AEAD algorithms | KDDI Corporation | revised | S3-252015 | S3-252362 |
| S3-252067 | AIoT Authentication Procedure for Inventory | OPPO | revised |  | S3-252279 |
| S3-252068 | AIoT authentication procedure for Command | OPPO | merged |  | S3-252279 |
| S3-252069 | New SID on security aspects of Integrated Sensing and Communication | Xiaomi, China Telecom, China Mobile, ZTE, Lenovo, CableLabs | revised |  | S3-252355 |
| S3-252070 | Reply LS on security handling for inter-CU LTM in non-DC cases | Xiaomi EV Technology | merged |  | S3-252398 |
| S3-252071 | Security Handling for inter-CU LTM | Xiaomi EV Technology | merged |  | S3-252272 |
| S3-252072 | Editor’s Note Resolution for Privacy Protection | Xiaomi EV Technology | merged |  | S3-252316 |
| S3-252073 | Correction on the Authorization of DA services using CAPIF | Xiaomi EV Technology | revised |  | S3-252315 |
| S3-252074 | Correction on the Authentication of Digital Representation using SEAL | Xiaomi EV Technology | revised |  | S3-252317 |
| S3-252075 | pCR against Living CR on Cross UE authorization | Xiaomi communications, Nokia | revised |  | S3-252295 |
| S3-252076 | pCR against Living CR on revocation | Xiaomi communications | merged |  | S3-252291 |
| S3-252077 | pCR against Living CR on RO management | Xiaomi communications | merged |  | S3-252290 |
| S3-252078 | pCR against interconnection baseline | Xiaomi communications | merged |  | S3-252293 |
| S3-252079 | Discussion on R20 5G-A CAPIF security enhencements | Xiaomi communications | not treated |  |  |
| S3-252080 | Addressing EN in store and forward satellite operation | Xiaomi Technology | merged |  | S3-252275 |
| S3-252081 | Security requirements on the AIoTF | Xiaomi Technology | merged |  | S3-252309 |
| S3-252082 | Security requirements on the AIoT device | Xiaomi Technology | merged |  | S3-252282 |
| S3-252083 | Authentication procedure for AIoT service | Xiaomi Technology | merged |  | S3-252279 |
| S3-252084 | Protection of information during AIoT service communication | Xiaomi Technology | merged |  | S3-252280 |
| S3-252085 | Remove Editor’s Notes in solution 16 of TR 33.713 | Xiaomi Technology | approved |  |  |
| S3-252086 | Discussion on AIoT security principles | CATT | noted |  |  |
| S3-252087 | New SID on 5G Security Assurance Specification (SCAS) for the Container-based Products | Ericsson, Nokia, Nokia Shanghai Bell, BSI | revised |  | S3-252358 |
| S3-252088 | pCR to TS33.369 Security requirements on the device | CATT | merged |  | S3-252282 |
| S3-252089 | pCR to TS33.369 Security requirements on the AIOTF | CATT | merged |  | S3-252309 |
| S3-252090 | pCR to TS33.369 Security requirements on the ADM | CATT | noted |  |  |
| S3-252091 | pCR to TS33.369 AIoT Device authentication procedure | CATT | merged |  | S3-252279 |
| S3-252092 | pCR to TS33.369 AIoT Device communication security procedure | CATT | merged |  | S3-252280 |
| S3-252093 | pCR to TS33.369 AIoT Device privacy protection | CATT | merged |  | S3-252327 |
| S3-252094 | pCR to TS33.369 AIoT Device group privacy protection | CATT | noted |  |  |
| S3-252095 | AIoT TS - Security Requirements for AIoT devices | Apple | merged |  | S3-252282 |
| S3-252096 | AIoT TS - Security Requirements for AIOTF | Apple | merged |  | S3-252309 |
| S3-252097 | AIoT TS- Authentication - General clause | Apple | noted |  | - |
| S3-252098 | AIoT TS- Authentication procedure for Inventory | Apple | merged |  | S3-252279 |
| S3-252099 | AIoT TR - Clean up on the KI#3 | Apple | approved |  | - |
| S3-252100 | AIoT TR - Clean up on the KI#4 | Apple | approved |  |  |
| S3-252101 | Removal of the terminology “AS root key” | Apple, NTT DOCOMO, Qualcomm Incorporated | agreed |  |  |
| S3-252102 | Discussion paper on SA3 R20 work plan | Apple | noted |  |  |
| S3-252103 | LTM - Conclusions | Apple | merged |  | S3-252284 |
| S3-252104 | LTM - Security procedures | Apple | merged |  | S3-252272 |
| S3-252105 | Report from SA3#121 | MCC | approved | S3-251811 |  |
| S3-252106 | Living document to TS 33.401 for adding abbreviations and definitions | Huawei, HiSilicon | revised |  | S3-252276 |
| S3-252107 | Reply LS on Avatar Security Aspects | Huawei, HiSilicon | merged |  | S3-252296 |
| S3-252108 | Reply LS on authorization and authentication in Avatar communication | Huawei, HiSilicon | revised |  | S3-252297 |
| S3-252109 | Security of Avatar Communication | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | merged |  | S3-252301 |
| S3-252110 | Update the Security aspects of Full EPC in each satellite | China Telecom Corporation Ltd. | approved |  |  |
| S3-252111 | Update conclusion of KI#2 | Huawei, HiSilicon | revised |  | S3-252298 |
| S3-252112 | Addressing EN in conclusion of KI#3 | Huawei, HiSilicon | merged |  | S3-252299 |
| S3-252113 | Addressing EN for Data Channel Exposure | Huawei, HiSilicon | merged |  | S3-252302 |
| S3-252114 | Reply LS on adoption of newly published 3GPP SCASes | Huawei, HiSilicon | revised |  | S3-252325 |
| S3-252115 | Changing DC to Data Channel | Huawei, HiSilicon | agreed |  |  |
| S3-252116 | Solving issues to TS 33.529 according to LS from GSMA NESASG | Huawei, HiSilicon | revised |  | S3-252319 |
| S3-252117 | Discussion on resolving EN in annex of Split MME by implementation | Huawei, HiSilicon | noted |  |  |
| S3-252118 | Living document for security aspects of 5G satellite access phase 3 | CATT | revised |  | S3-252277 |
| S3-252119 | Solving the improvement point to TS 33.537 according to LS from GSMA NESASG | Huawei, HiSilicon | revised |  | S3-252324 |
| S3-252120 | Remove the EN about DDoS attack | China Telecom Corporation Ltd. | merged |  | S3-252278 |
| S3-252121 | Addressing the EN on the concrete modes of AES for protecting XRM Media related information when using connect-UDP forwarded mode | Huawei, HiSilicon | merged |  | S3-252307 |
| S3-252122 | Way forward for DoS attack topic | CATT | noted |  |  |
| S3-252123 | Addressing the ENs of Key derivation, Nonce and counter values, and VCID uniqueness in the forwarding mode. | Huawei, HiSilicon | merged |  | S3-252307 |
| S3-252124 | Addressing the EN on the length of the protected MRI content | Huawei, HiSilicon | merged |  | S3-252307 |
| S3-252125 | PCR on Protection of information during AIoT service communication | OPPO | merged |  | S3-252280 |
| S3-252126 | Update security aspects of Split MME architecture | CATT | merged |  | S3-252278 |
| S3-252127 | Update security aspects of Full EPC in each satellite | CATT | approved |  |  |
| S3-252128 | Update AIoT conclusion #4 | OPPO | revised |  | S3-252383 |
| S3-252129 | Update Solution #17 in TR 33.713 | OPPO | revised |  | S3-252365 |
| S3-252130 | Remove ENs in Solution #32 and #33 | OPPO | revised |  | S3-252370 |
| S3-252131 | Discussion paper on security of ProSe in SNPN | China Telecom Corporation Ltd.,Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-252132 | Add note for security of prose in npns | China Telecom, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-252133 | New SID on Security Aspects of 5G Satellite Access Phase 4 | CATT, China Unicom | revised |  | S3-252359 |
| S3-252134 | New WID on Security Aspects of Proximity based Services in NPNs | China Telecom Corporation Ltd. | noted |  |  |
| S3-252135 | Security Consideration for Integrated Sensing and Communication | OPPO | noted |  |  |
| S3-252136 | Protection of AIoT data in command message | Huawei, HiSilicon | revised |  | S3-252280 |
| S3-252137 | security requirement on device | Huawei, HiSilicon | revised |  | S3-252282 |
| S3-252138 | Discussion paper on credential storage in Ambinet IoT device | Huawei, HiSilicon | noted |  |  |
| S3-252139 | Discussion on the NF consumer PLMN ID check | Ericsson | noted |  |  |
| S3-252140 | Checking PLMNID of NF Service Consumer in interconnect scenario | Ericsson, Nokia Nokia Shanghai Bell | not pursued |  |  |
| S3-252141 | Checking PLMNID of NF Service Consumer in interconnect scenario | Ericsson, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-252142 | Checking PLMNID of NF Service Consumer in interconnect scenario | Ericsson, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-252143 | LS on Checking PLMNID of NFc in interconnect scenario | Ericsson | noted |  |  |
| S3-252144 | LS on PLMN ID checks in interconnect scenarios when NFc supports multiple PLMN IDs | Ericsson | revised |  | S3-252264 |
| S3-252145 | New JWS profiles for CCA tokens and access tokens | Ericsson | not pursued |  |  |
| S3-252146 | Public key distribution service support both raw key and certificate | Ericsson, NCSC, KDDI, AT&T, BT, Deutsche Telekom, Huawei, Samsung | revised |  | S3-252271 |
| S3-252147 | OAuth Tokens for NF Type level access | Ericsson, NCSC | noted |  |  |
| S3-252148 | WID on Public key distribution and Issuer claim verification of the Access Token | Ericsson, NCSC, Huawei, AT&T, Deutsche Telekom, BT | revised |  | S3-252397 |
| S3-252149 | Pseudo-CR on AIoT device security requirements related to cryptographic algorithms | Ericsson | revised |  | S3-252308 |
| S3-252150 | AIoT Device Secure Storage | Ericsson | merged |  | S3-252262 |
| S3-252151 | Pseudo-CR on Privacy for group paging | Ericsson | revised |  | S3-252328 |
| S3-252152 | Addressing EN in AIoT Solution #29 | Ericsson | approved |  |  |
| S3-252153 | Addressing EN in AIoT Solution #43 | Ericsson | approved |  |  |
| S3-252154 | Study on Post-Quantum Cryptography in 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | merged |  | S3-252360 |
| S3-252155 | Fix issues on SEAL security framework | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-252156 | Removing normative phrasing by referring to SA2 text | Qualcomm Incorporated | revised |  | S3-252401 |
| S3-252157 | Proposal for DDoS editor’s note resolution | Qualcomm Incorporated | merged |  | S3-252278 |
| S3-252158 | Discussion on issues in temporary ID based approaches and way forward proposal | Qualcomm Incorporated, Ericsson, Lenovo | noted |  |  |
| S3-252159 | Protection of AIoT device identifier privacy | Qualcomm Incorporated | revised |  | S3-252327 |
| S3-252160 | Update on KI#3 conclusion | Qualcomm Incorporated | merged |  | S3-252381 |
| S3-252161 | Proposed addition to general conclusion related to credential storage | Qualcomm Incorporated | revised |  | S3-252384 |
| S3-252162 | Updates on solution 15 | Qualcomm Incorporated | approved |  |  |
| S3-252163 | Addressing ENs in solution 34 | Qualcomm Incorporated | revised |  | S3-252371 |
| S3-252164 | Authentication procedures | Qualcomm Incorporated | merged |  | S3-252279 |
| S3-252165 | Security procedure on the information protection in command procedure | Qualcomm Incorporated | merged |  | S3-252280 |
| S3-252166 | Addressing EN in the requirements on the ADM | Qualcomm Incorporated | revised |  | S3-252412 |
| S3-252167 | Storage and processing of credentials requirements on the device | Qualcomm Incorporated | merged |  | S3-252262 |
| S3-252168 | Confidentiality and integrity protection requirements on device | Qualcomm Incorporated | merged |  | S3-252282 |
| S3-252169 | Device security requirements regarding inventory with filtering information | Qualcomm Incorporated | merged |  | S3-252328 |
| S3-252170 | AIoT specific key bootstrapping procedure | Qualcomm Incorporated | noted |  |  |
| S3-252171 | Addressing the Editor’s Notes in multi-hop U2N relay discovery security | Qualcomm Incorporated, Huawei, HiSilicon, China Telecom, Beijing Xiaomi, InterDigital | agreed | S3-251793 |  |
| S3-252172 | Pseudo-CR on 3GPP Cryptographic Inventory Table for DTLS | Qualcomm Incorporated | revised |  | S3-252343 |
| S3-252173 | Pseudo-CR on 3GPP Cryptographic Inventory Table for TLS | Qualcomm Incorporated | revised |  | S3-252344 |
| S3-252174 | Pseudo-CR on 3GPP Cryptographic Inventory Table for JWE and JWS | Qualcomm Incorporated | revised |  | S3-252345 |
| S3-252175 | Pseudo-CR on 3GPP Cryptographic Inventory Clause Restructuring | Qualcomm Incorporated | revised |  | S3-252332 |
| S3-252176 | Pseudo-CR on 3GPP Cryptographic Inventory EAP-TLS Details | Qualcomm Incorporated | approved |  |  |
| S3-252177 | Pseudo-CR on 3GPP Cryptographic Inventory Abbreviations | Qualcomm Incorporated | merged |  | S3-252331 |
| S3-252178 | Pseudo-CR on 3GPP Cryptographic Inventory OCSP Details | Qualcomm Incorporated | revised |  | S3-252347 |
| S3-252179 | Pseudo-CR on 3GPP Cryptographic Inventory QUIC Details | Qualcomm Incorporated | approved |  |  |
| S3-252180 | Correcting inconsistencies to clause 6.2.3 of 33.210 | Qualcomm Incorporated | revised |  | S3-252394 |
| S3-252181 | Providing security details for forwarding mode in XRM | Ericsson | revised |  | S3-252307 |
| S3-252182 | Comparison of AES-CCM, AES-GCM, and AES-GCM-SST for protection of XRM | Ericsson | noted |  |  |
| S3-252183 | Multiple Editorial corrections | Nokia | agreed |  |  |
| S3-252184 | Multiple Editorial correction | Nokia | agreed |  |  |
| S3-252185 | LS on USS changeover procedure | Ericsson | revised |  | S3-252263 |
| S3-252186 | LGE View on 6G study | LG Electronics | noted |  |  |
| S3-252187 | Security mechanism and procedure for inter-CU-LTM | LG Electronics | merged |  | S3-252272 |
| S3-252188 | Conclusion update for Key issue #1 | LG Electronics | merged |  | S3-252284 |
| S3-252189 | Making NF type as pre-registered parameter in CA/RA for IAK method | Ericsson | agreed |  |  |
| S3-252190 | Security consideration for MAC CE and lower layers | OPPO | noted |  |  |
| S3-252191 | Discussion on threats for CNF products and CNF SCAS Test Cases | BSI (DE) | noted | S3-251859 |  |
| S3-252192 | Study on Security Aspects of Lower Layers | OPPO | noted |  |  |
| S3-252193 | Conclusion update for KI#2: Security of IMS based Avatar Communication | Ericsson | merged |  | S3-252298 |
| S3-252194 | Conclusion update for KI#3: Security and privacy aspects of IMS DC capability exposure | Ericsson | revised |  | S3-252299 |
| S3-252195 | TR cleanup | Ericsson | approved |  |  |
| S3-252196 | Presentation of Specification/Report to TSG:  TR 33.790 Study on the security support for the next generation real time communication services phase 2, Version 1.3.0 | Ericsson | approved |  |  |
| S3-252197 | Discussion about the LS on Avatar Security Aspects from SA4 | Ericsson | noted |  |  |
| S3-252198 | Reply LS on Avatar Security Aspects | Ericsson | merged |  | S3-252296 |
| S3-252199 | Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.203, Signing and verification of third party user identity information in IMS | Ericsson | approved |  |  |
| S3-252200 | Signing and verification of third party user identity information in IMS | Ericsson | revised |  | S3-252300 |
| S3-252201 | Proposal for a living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security of IMS avatar communication | Ericsson | revised |  | S3-252301 |
| S3-252202 | Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security and privacy of IMS capability exposure | Ericsson, Huawei, HiSilicon, China Mobile | revised |  | S3-252302 |
| S3-252203 | Changes to the Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security and privacy of IMS capability exposure | Ericsson | merged |  | S3-252302 |
| S3-252204 | Revised WID on security support for the Next Generation Real Time Communication services Phase 2 | Ericsson | revised |  | S3-252349 |
| S3-252205 | General conclusion: network layer | THALES, ORANGE | revised |  | S3-252385 |
| S3-252206 | 3GPP Cryptographic Inventory Table for EAP-AKA’/EAP-5G | Lenovo | revised |  | S3-252342 |
| S3-252207 | General conclusion: security capabilities | THALES, ORANGE | approved |  |  |
| S3-252208 | Handling of Temporary Identity for the initial Individual Inventory Request | Lenovo | noted |  |  |
| S3-252209 | General conclusion: authentication | THALES, ORANGE | noted |  |  |
| S3-252210 | Network assigned Temporary Group Identity | Lenovo | noted |  |  |
| S3-252211 | Issues about user consent for exposure and a proposal to address them | Ericsson | noted |  |  |
| S3-252212 | Clarification of the intended applicability and requirements for Annex V | Ericsson | revised |  | S3-252269 |
| S3-252213 | Updates to the living CR on finer level authorization | Ericsson | merged |  | S3-252292 |
| S3-252214 | Updates to the baseline document on CAPIF interconnection | Ericsson | merged |  | S3-252293 |
| S3-252215 | Updates to the living CR on Cross UE authorization | Ericsson | merged |  | S3-252295 |
| S3-252216 | Updates to the living CR on RO authorization | Ericsson | merged |  | S3-252290 |
| S3-252217 | Updates to the living CR on Nested API | Ericsson | revised |  | S3-252294 |
| S3-252218 | Updates to the living CR on Revocation | Ericsson | merged |  | S3-252291 |
| S3-252219 | Clarification on resource owner ID in the token | Ericsson | not pursued |  |  |
| S3-252220 | Clarification on client credential flow – Rel-18 | Ericsson | not pursued |  |  |
| S3-252221 | Clarification on client credential flow | Ericsson | not pursued |  |  |
| S3-252222 | Conclusion KI#5: credentials | THALES, ORANGE | revised |  | S3-252386 |
| S3-252223 | Conclusion KI#5: authentication | THALES, ORANGE | noted |  |  |
| S3-252224 | Conclusion KI#5: solutions | THALES, ORANGE | revised |  | S3-252387 |
| S3-252225 | LS reply on a common definition of Zero Trust | MITRE-FFRDC | revised |  | S3-252261 |
| S3-252226 | Resolution of ENs in solution #39 | THALES | withdrawn |  |  |
| S3-252227 | Credential storage requirement for device | Huawei, HiSilicon | merged |  | S3-252262 |
| S3-252228 | pCR against living draft CR on S&F | THALES | noted |  |  |
| S3-252229 | Updates to key retrieval service | Nokia | merged |  | S3-252271 |
| S3-252230 | Clarification on naming of purposes for user consent | Nanjing vivo Software Tech. | not pursued |  |  |
| S3-252231 | Resolution of ENs in solution #39 | THALES | revised |  | S3-252375 |
| S3-252232 | Updates to Living CR on Finer level of authorization | Lenovo | merged |  | S3-252292 |
| S3-252233 | Updates to Living CR on revocation | Lenovo | merged |  | S3-252291 |
| S3-252234 | Pseudo-CR Solution for KI#3: Paging with AIOT group ID | NTT DOCOMO INC. | revised |  | S3-252380 |
| S3-252235 | Discussion on work split SA3 and SA6 on user consent topic | Nokia | noted |  |  |
| S3-252236 | DP related to FS\_5GSAT\_Ph4\_SEC concerning NAS counters handling in multi-satellite S&F operation | Sateliot, Novamint | noted |  |  |
| S3-252237 | Implementation correction of CR2040 | Nokia | revised |  | S3-252265 |
| S3-252238 | Mini WID for Roaming and interconnect authorization aspects in indirect communication | Nokia | revised |  | S3-252351 |
| S3-252239 | Miscellaneous updates in introductionary part | Xiaomi, Nokia | revised |  | S3-252312 |
| S3-252240 | Missing clarifications and typos correction | Xiaomi, Nokia | agreed |  |  |
| S3-252241 | Implementation of original figures | Xiaomi, Nokia | revised |  | S3-252313 |
| S3-252242 | Solution 11 editorial updates | Nokia | agreed |  |  |
| S3-252243 | Solution 13 figure update and FFS resolution | Nokia | agreed |  |  |
| S3-252244 | Solution 19 figure update and formatting issues | Nokia | agreed |  |  |
| S3-252245 | Solution 20 figure update and formatting issues | Nokia | agreed |  |  |
| S3-252246 | Solution 21 restructuring and formatting | Nokia | agreed |  |  |
| S3-252247 | RO definition | Nokia, Lenovo | not pursued |  |  |
| S3-252248 | Update to S3-251845 on Finer level of authorization | Nokia | merged |  | S3-252292 |
| S3-252249 | Update to S3-251848 on Nested API | Nokia | merged |  | S3-252294 |
| S3-252250 | Update to S3-251870 on RO management | Nokia | merged |  | S3-252290 |
| S3-252251 | Update to S3-251890 on CAPIF-interconnection | Nokia | merged |  | S3-252293 |
| S3-252252 | Update to S3-251894 on revocation | Nokia | merged |  | S3-252291 |
| S3-252253 | 6G security SID discussion | NTT DOCOMO INC. | noted |  |  |
| S3-252254 | Clarification on verification of NFc for discovery in roaming scenario | MITRE-FFRDC | revised |  | S3-252421 |
| S3-252255 | Update proposal to S3-251831 | Nokia | revised |  | S3-252260 |
| S3-252256 | LS to 3GPP about the external data channel content access requirements | GSMA | postponed | - | - |
| S3-252257 | LS from GSMA TSG IMSDCAS to 3GPP SA3 on the data channel security study and the security requirements | GSMA | noted | - | - |
| S3-252258 | LS on the creation of the Getting Ready for Energy-Efficient Networking  Working Group in the IETF | IETF | noted | - | - |
| S3-252259 | reply LS on Device Subscription Data | Huawei, HiSilicon | approved | S3-251992 | - |
| S3-252260 | Reply to: LS on the scope attribute of the access token standard claims | Nokia | approved | S3-252255 | - |
| S3-252261 | LS reply on a common definition of Zero Trust | Nokia | approved | S3-252225 | - |
| S3-252262 | Credential storage requirement for device | Orange Belgium, THALES, Deutsche Telekom, IDEMIA, T-Mobile US, AT&T, Ericsson,Huawei | approved | S3-252227 | - |
| S3-252263 | LS on USS changeover procedure | Ericsson | approved | S3-252185 | - |
| S3-252264 | LS on PLMN ID checks in interconnect scenarios when NFc supports multiple PLMN IDs | Ericsson | approved | S3-252144 | - |
| S3-252265 | Implementation correction of CR2040 | Nokia | agreed | S3-252237 | - |
| S3-252266 | ZUC number of initialisation rounds | Nokia | agreed | S3-251872 | - |
| S3-252267 | Clarification for CMP over TLS | Huawei, HiSilicon | agreed | S3-251998 | - |
| S3-252268 | Clarification for CMP over TLS | Huawei, HiSilicon | agreed | S3-252002 | - |
| S3-252269 | Clarification of the intended applicability and requirements for Annex V | Ericsson | not pursued | S3-252212 | - |
| S3-252270 | Living document for TEI19: Public key distribution and Issuer claim verification of the Access Token | Ericsson, Nokia, Nokia Shanghai Bell, NCSC | approved | S3-251836 | - |
| S3-252271 | Public key distribution service support both raw key and certificate | Ericsson, NCSC, KDDI, AT&T, BT, Deutsche Telekom, Huawei, Samsung | approved | - | - |
| S3-252272 | Security procedure for inter-CU LTM | Samsung | approved | S3-252054 | - |
| S3-252273 | Clarification and editorial for multi-hop Relay scenarios | Huawei, HiSilicon | agreed | S3-252010 | - |
| S3-252274 | Clarification to clause 4.1 | Huawei, Hisilicon,Nokia, ZTE | agreed | S3-252011 | - |
| S3-252275 | Living document for Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA) | Cisco Systems, Huawei, US National Security Agency, Charter Communications, Google, Johns Hopkins University APL | approved | S3-251863 | - |
| S3-252276 | Living document to TS 33.401 for adding abbreviations and definitions | Huawei, HiSilicon | approved | S3-252106 | - |
| S3-252277 | Living document for security aspects of 5G satellite access phase 3 | CATT | approved | S3-252118 | - |
| S3-252278 | Resolving EN in Annex of split MME by implementation | Huawei, HiSilicon | approved | S3-252007 | - |
| S3-252279 | AIoT Authentication Procedure for Inventory | OPPO | approved | S3-252067 | - |
| S3-252280 | Protection of AIoT data in command message | Huawei, HiSilicon | approved | S3-252136 | - |
| S3-252281 | Update the clause 5.5 Protection between AIoT network element | ZTE Corporation | approved | S3-251952 | - |
| S3-252282 | security requirement on device | Huawei, HiSilicon | approved | S3-252137 | - |
| S3-252283 | Pseudo-CR on AIoT temporary ID requirement | NTT DOCOMO INC. | approved | S3-251914 | - |
| S3-252284 | Update conclusion for KI#1 | ZTE Corporation | approved | S3-251938 | - |
| S3-252285 | Living document on NR mobility enhancement | Samsung | approved | S3-252053 | - |
| S3-252286 | Draft TR 33.790 | Ericsson | approved | - | - |
| S3-252287 | Draft TS 33.369 | OPPO | approved | - | - |
| S3-252288 | Draft TR 33.713 | OPPO | approved | - | - |
| S3-252289 | Draft TR 33.938 | Huawei | approved | - | - |
| S3-252290 | KI#1.2 update RO authorization to address EN | Huawei, HiSilicon, Nokia | approved | S3-251972 | - |
| S3-252291 | Baseline pCR against Draft CR for KI#1.2 on revocation | China Telecom Corporation Ltd. | approved | S3-251959 | - |
| S3-252292 | KI#1.3 updating text for finer level authorization | Huawei, HiSilicon, Nokia | approved | S3-251974 | - |
| S3-252293 | Updates to security procedure for CAPIF interconnection | Samsung, Xiaomi, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, CATT | approved | S3-252037 | - |
| S3-252294 | Updates to the living CR on Nested API | Ericsson | approved | S3-252217 | - |
| S3-252295 | pCR against Living CR on Cross UE authorization | Xiaomi communications, Nokia | approved | S3-252075 | - |
| S3-252296 | LS on Avatar Security Aspects | Nokia, Nokia Shanghai Bell | approved | S3-251898 | - |
| S3-252297 | Reply LS on authorization and authentication in Avatar communication | Huawei, HiSilicon | approved | S3-252108 | - |
| S3-252298 | Update conclusion of KI#2 | Huawei, HiSilicon | approved | S3-252111 | - |
| S3-252299 | Conclusion update for KI#3: Security and privacy aspects of IMS DC capability exposure | Ericsson | approved | S3-252194 | - |
| S3-252300 | Signing and verification of third party user identity information in IMS | Ericsson | agreed | S3-252200 | - |
| S3-252301 | Proposal for a living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security of IMS avatar communication | Ericsson | approved | S3-252201 | - |
| S3-252302 | Living document for NG\_RTC\_SEC\_Ph2: draftCR to TS 33.328, Security and privacy of IMS capability exposure | Ericsson, Huawei, HiSilicon, China Mobile | approved | S3-252202 | - |
| S3-252303 | Clarification on X.12.2 | vivo | approved | S3-252025 | - |
| S3-252304 | Update figures of the living document for AIML\_CN\_SEC | ZTE Corporation | approved | S3-251946 | - |
| S3-252305 | Alignment CR | Nokia | approved | S3-251962 | - |
| S3-252306 | Living document for AIML\_CN\_SEC | China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT | revised | S3-252056 | - |
| S3-252307 | Providing security details for forwarding mode in XRM | Ericsson | agreed | S3-252181 | - |
| S3-252308 | Pseudo-CR on AIoT device security requirements related to cryptographic algorithms | Ericsson | approved | S3-252149 | - |
| S3-252309 | Security requirements on the AIOTF | vivo | approved | S3-252023 | - |
| S3-252310 | Add a clause about requirement on AIoT Reader | ZTE Corporation | approved | S3-251947 | - |
| S3-252311 | Onboarding API Invoker Residing in the UE | Lenovo, Nokia | approved | S3-251886 | - |
| S3-252312 | Miscellaneous updates in introductionary part | Xiaomi, Nokia | agreed | S3-252239 | - |
| S3-252313 | Implementation of original figures | Xiaomi, Nokia | agreed | S3-252241 | - |
| S3-252314 | Adding support for multiple USSs | Qualcomm Incorporated, InterDigital, Ericsson, Huawei | agreed | S3-252055 | - |
| S3-252315 | Correction on the Authorization of DA services using CAPIF | Xiaomi EV Technology | approved | S3-252073 | - |
| S3-252316 | resolving EN for Privacy protection for user information exposure | ZTE Corporation | approved | S3-251942 | - |
| S3-252317 | Correction on the Authentication of Digital Representation using SEAL | Xiaomi EV Technology | approved | S3-252074 | - |
| S3-252318 | Living document on Metaverse\_Sec | Samsung | revised | S3-252036 | - |
| S3-252319 | Solving issues to TS 33.529 according to LS from GSMA NESASG | Huawei, HiSilicon | agreed | S3-252116 | - |
| S3-252320 | Correction of test names and clean up of 33.117 | BSI (DE) | agreed | S3-251847 | - |
| S3-252321 | Clean up and correction of test names in 33.216 | BSI (DE) | agreed | S3-251848 | - |
| S3-252322 | Addition of test names and Clean up of 33.511 | BSI (DE) | agreed | S3-251849 | - |
| S3-252323 | Correction of test case and clean up of 33.512 | BSI (DE) | agreed | S3-251857 | - |
| S3-252324 | Solving the improvement point to TS 33.537 according to LS from GSMA NESASG | Huawei, HiSilicon | agreed | S3-252119 | - |
| S3-252325 | Reply LS on adoption of newly published 3GPP SCASes | Huawei, HiSilicon | approved | S3-252114 | - |
| S3-252326 | Procedure for Protection of AIoT device identifier privacy | Sony, OPPO | endorsed | S3-251897 | - |
| S3-252327 | Protection of AIoT device identifier privacy | Qualcomm Incorporated | merged | S3-252159 | S3-252326 |
| S3-252328 | Pseudo-CR on Privacy for group paging | Ericsson | noted | S3-252151 | - |
| S3-252329 | AIoT baseline requirements | KPN N.V. | withdrawn | - | - |
| S3-252330 | Terms and Definitions | Nokia, NIST | approved | S3-251881 | - |
| S3-252331 | missing references and abbreviations | Huawei, HiSilicon | approved | S3-251975 | - |
| S3-252332 | Pseudo-CR on 3GPP Cryptographic Inventory Clause Restructuring | Qualcomm Incorporated | approved | S3-252175 | - |
| S3-252333 | Cryptographic Inventory Table update for MIKEY-SAKKE | NIST | approved | S3-251860 | - |
| S3-252334 | Tables Content for ECIES | Nokia, Nokia Shanghai Bell | approved | S3-251874 | - |
| S3-252335 | LS on power and energy consumption budget for security features in AioT | ORANGE | approved | S3-251916 | - |
| S3-252336 | Tables Content for PKI | Nokia, Nokia Shanghai Bell | approved | S3-251875 | - |
| S3-252337 | Tables Content for OCSP | Nokia, Nokia Shanghai Bell | approved | S3-251876 | - |
| S3-252338 | Tables Content for EAP-TLS | Nokia, Nokia Shanghai Bell | approved | S3-251879 | - |
| S3-252339 | Table content for OAuth 2.0 | Huawei, HiSilicon | approved | S3-251979 | - |
| S3-252340 | Table content for IKEv2 | Huawei, HiSilicon | approved | S3-251980 | - |
| S3-252341 | pCR on Tables Content for IPsec ESP protocol | Samsung | approved | S3-252042 | - |
| S3-252342 | 3GPP Cryptographic Inventory Table for EAP-AKA’/EAP-5G | Lenovo | approved | S3-252206 | - |
| S3-252343 | Pseudo-CR on 3GPP Cryptographic Inventory Table for DTLS | Qualcomm Incorporated | approved | S3-252172 | - |
| S3-252344 | Pseudo-CR on 3GPP Cryptographic Inventory Table for TLS | Qualcomm Incorporated | approved | S3-252173 | - |
| S3-252345 | Pseudo-CR on 3GPP Cryptographic Inventory Table for JWE and JWS | Qualcomm Incorporated | approved | S3-252174 | - |
| S3-252346 | description of OAuth 2.0 | Huawei, HiSilicon | approved | S3-251977 | - |
| S3-252347 | Pseudo-CR on 3GPP Cryptographic Inventory OCSP Details | Qualcomm Incorporated | approved | S3-252178 | - |
| S3-252348 | [33.180] Alignment of Logging Recording and Audit | Airbus | agreed | S3-251866 | - |
| S3-252349 | Revised WID on security support for the Next Generation Real Time Communication services Phase 2 | Ericsson | agreed | S3-252204 | - |
| S3-252350 | New WID on SCAS | Huawei, HiSilicon,Huawei, HiSilicon, BSI (DE), China Telecom, China Mobile, Keysight Technologies UK Ltd., Nokia, Nokia Shanghai Bell, China Unicom, CATT, CAICT | agreed | S3-252012 | - |
| S3-252351 | Mini WID for Roaming and interconnect authorization aspects in indirect communication | Nokia | agreed | S3-252238 | - |
| S3-252352 | New SID on Security Aspects for IMS resiliency | KDDI, AT&T, Boost Mobile Network, Deutsche Telekom, SK Telecom, SoftBank, TOYOTA MOTOR CORPORATION, Rakuten Mobile, Verizon, vivo, Vodafone | endorsed | S3-251905 | - |
| S3-252353 | New WID on mission critical security enhancements for release 20 | Motorola Solutions Germany | agreed | S3-251829 | - |
| S3-252354 | new SID on security aspects for QUIC or TLS | Huawei, HiSilicon | endorsed | S3-251996 | - |
| S3-252355 | New SID on security aspects of Integrated Sensing and Communication | Xiaomi, China Telecom, China Mobile, ZTE, Lenovo, CableLabs | endorsed | S3-252069 | - |
| S3-252356 | New SID on Security of AIML\_Ph2 | vivo, CMCC | endorsed | S3-252027 | - |
| S3-252357 | New SID on enhanced security management service about security policy provisioning | China Mobile, ZTE, CATT, Johns Hopkins University APL, CAICT, CableLabs, Nokia, China Unicom, China Telecom | noted | S3-252065 | - |
| S3-252358 | New SID on 5G Security Assurance Specification (SCAS) for the Container-based Products | Ericsson, Nokia, Nokia Shanghai Bell, BSI | endorsed | S3-252087 | - |
| S3-252359 | New SID on Security Aspects of 5G Satellite Access Phase 4 | CATT, China Unicom | endorsed | S3-252133 | - |
| S3-252360 | Study on Preparing for Transition to Post Quantum Cryptography in 3GPP | Nokia, Ericsson | agreed | - | - |
| S3-252361 | New SID on Security Plane for collection and transport of security data | OTD\_US | noted | S3-251911 | - |
| S3-252362 | New SID on supporting AEAD algorithms | KDDI Corporation | endorsed | S3-252066 | - |
| S3-252363 | pCR to TR33.713 Remove EN in solution#9 | CATT | approved | S3-251923 | - |
| S3-252364 | Remove EN for Sol#10 | vivo | approved | S3-252020 | - |
| S3-252365 | Update Solution #17 in TR 33.713 | OPPO | revised | S3-252129 | S3-252413 |
| S3-252366 | pCR on evaluation update on solution #22 | Samsung | approved | S3-252047 | - |
| S3-252367 | Update AIOT sol#24 | OPPO | approved | S3-251920 | - |
| S3-252368 | resolving ENs in sol#25 in TR 33.713 | ZTE Corporation | approved | S3-251955 | - |
| S3-252369 | pCR to TR33.713 Remove EN in solution#30 | CATT | approved | S3-251925 | - |
| S3-252370 | Remove ENs in Solution #32 and #33 | OPPO | approved | S3-252130 | - |
| S3-252371 | Addressing ENs in solution 34 | Qualcomm Incorporated | approved | S3-252163 | - |
| S3-252372 | Pseudo-CR on Update AIOT sol#37 | Xidian University | approved | S3-251906 | - |
| S3-252373 | pCR on resolving EN on solution #38 | Samsung | approved | S3-252049 | - |
| S3-252374 | pCR on evaluation update on solution #38 | Samsung | approved | S3-252050 | - |
| S3-252375 | Resolution of ENs in solution #39 | THALES | approved | S3-252231 | - |
| S3-252376 | Remove EN for Sol#40 | vivo | approved | S3-252021 | - |
| S3-252377 | Remove EN for Sol#41 | vivo | approved | S3-252022 | - |
| S3-252378 | Resolve ENs  in Sol#45 of TR 33.713 | China Mobile | approved | S3-252060 | - |
| S3-252379 | Evaluation for Sol#45 in TR 33.713 | China Mobile | approved | S3-252058 | - |
| S3-252380 | Pseudo-CR Solution for KI#3: Paging with AIOT group ID | NTT DOCOMO INC. | approved | S3-252234 | - |
| S3-252381 | Conclusion update on KI#3 for AIoT privacy | vivo | approved | S3-252019 | - |
| S3-252382 | update AIOT KI#3 | OPPO | withdrawn | - | - |
| S3-252383 | Update AIoT conclusion #4 | OPPO | approved | S3-252128 | - |
| S3-252384 | Proposed addition to general conclusion related to credential storage | Qualcomm Incorporated | approved | S3-252161 | - |
| S3-252385 | General conclusion: network layer | THALES, ORANGE | approved | S3-252205 | - |
| S3-252386 | Conclusion KI#5: credentials | THALES, ORANGE | approved | S3-252222 | - |
| S3-252387 | Conclusion KI#5: solutions | THALES, ORANGE | approved | S3-252224 | - |
| S3-252388 | Refinement of EN in KI#5 | Nokia | approved | S3-252030 | - |
| S3-252389 | Cover sheet TR 33.713 | OPPO | approved | - | - |
| S3-252390 | Update of KI#3 | NTT DOCOMO INC. | approved | S3-251915 | - |
| S3-252391 | SA3 initial plan for 6G study | WG Chair (Samsung) | endorsed | - | - |
| S3-252392 | LS on security parameter in paging message | Huawei | approved | - | - |
| S3-252393 | Update service disabling procedure | China Mobile, ZTE | agreed | S3-252014 | - |
| S3-252394 | Correcting inconsistencies to clause 6.2.3 of 33.210 | Qualcomm Incorporated | agreed | S3-252180 | - |
| S3-252395 | New SID on AIMLE Service Security | Lenovo, Motorola Mobility | endorsed | S3-251891 | - |
| S3-252396 | CR on RO authorization | Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson | agreed | - | - |
| S3-252397 | WID on Public key distribution and Issuer claim verification of the Access Token | Ericsson, NCSC, Huawei, AT&T, Deutsche Telekom, BT,Nokia | agreed | S3-252148 | - |
| S3-252398 | Reply LS on security handling for inter-CU LTM in non-DC cases | Huawei, HiSilicon | approved | S3-251991 | - |
| S3-252399 | IANA registrations | Cisco Systems | approved | S3-251901 | - |
| S3-252400 | Automatic certificate management (ACME) for the Service Based Architecture (SBA) | Cisco | agreed | - | - |
| S3-252401 | Removing normative phrasing by referring to SA2 text | Qualcomm Incorporated | approved | S3-252156 | - |
| S3-252402 | Living CR on RO authorization | Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson | approved | S3-251870 | - |
| S3-252403 | Living CR on revocation | China Telecom Corporation Ltd. | approved | S3-251894 | - |
| S3-252404 | Living CR on Finer level authorization | Nokia, Huawei | approved | S3-251845 | - |
| S3-252405 | Living CR on Interconnection | Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson | approved | S3-251890 | - |
| S3-252406 | Living CR on Cross UE authorization | Xiaomi Communications | approved | S3-251869 | - |
| S3-252407 | Living CR on Nested API | Ericsson, Samsung, Xiaomi, Nokia,CATT | approved | S3-251868 | - |
| S3-252408 | Living CR for Onboarding API Invoker Residing in the UE | Lenovo, Nokia, Ericsson | approved | S3-251883 | - |
| S3-252409 | Update security for data collection for the LMF-based AIML positioning | OPPO | approved | S3-251929 | - |
| S3-252410 | Update clause 5.1 of TS 33.369 | China Mobile | approved | S3-252061 | - |
| S3-252411 | Security and privacy of IMS capability exposure | Ericsson, Huawei, HiSilicon, China Mobile, Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-252412 | Addressing EN in the requirements on the ADM | Qualcomm Incorporated | approved | S3-252166 | - |
| S3-252413 | Update Solution #17 in TR 33.713 | OPPO | approved | S3-252365 | - |
| S3-252414 | Resolving ENs in Solution #42 | KPN N.V. | approved | S3-251909 | - |
| S3-252415 | Tables Content for COSE | Nokia, Nokia Shanghai Bell | approved | S3-251877 | - |
| S3-252416 | Table content for EAP-TTLS | Huawei, HiSilicon | approved | S3-251978 | - |
| S3-252417 | Coverpage for TR Cryptographic Inventory | Nokia, Nokia Shanghai Bell | approved | S3-251882 | - |
| S3-252418 | New SID on Security aspects of WAB nodes for NR | Nokia, ZTE | endorsed | S3-251965 | - |
| S3-252419 | New SID on Security Aspect for NR Femto Phase 2 | ZTE Corporation | endorsed | S3-251956 | - |
| S3-252420 | New SID on security for PLMN hosting a NPN phase 2 | China Telecommunications Corp.,ZTE, China Unicom, China Mobile | endorsed | S3-251986 | - |
| S3-252421 | Clarification on verification of NFc for discovery in roaming scenario | MITRE-FFRDC,Nokia | agreed | S3-252254 | - |
| S3-252422 | Public key distribution and Issuer claim verification of the Access Token | Ericsson, Nokia, Nokia Shanghai Bell, NCSC | agreed | - | - |
| S3-252423 | Security procedure for inter-CU LTM | Samsung | agreed | - | - |
| S3-252424 | Security aspects of 5G satellite access | CATT | agreed | - | - |
| S3-252425 | Security procedures for mobile metaverse services | Samsung | agreed | - | - |
| S3-252426 | Resource Owner authentication revocation | China Telecom Corporation Ltd. | agreed | - | - |
| S3-252427 | Authorization for finer level service API access | Nokia, Huawei | agreed | - | - |
| S3-252428 | Security procedures for CAPIF interconnection | Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson | agreed | - | - |
| S3-252429 | Cross UE authorization | Xiaomi Communications | agreed | S3-252406 | - |
| S3-252430 | CR on Nested API | Ericsson, Samsung, Xiaomi, Nokia,CATT | agreed | - | - |
| S3-252431 | Onboarding API Invoker Residing in the UE | Lenovo, Nokia, Ericsson | agreed | S3-252408 | - |
| S3-252432 | Security aspects of Core Network Enhanced Support for AIML | China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT | agreed | S3-252306 | - |

### A2: Tdoc decision timing

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-251884 | Correction to f5\*\* description | Thales, Ericsson | 33.102 | 0286 | - | Rel-19 | F | Crypto\_f5\*\* | agreed |
| S3-251847 | Correction of test names and clean up of 33.117 | BSI (DE) | 33.117 | 0213 | - | Rel-19 | F | SCAS\_5G\_Maint | revised |
| S3-252320 | Correction of test names and clean up of 33.117 | BSI (DE) | 33.117 | 0213 | 1 | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-252219 | Clarification on resource owner ID in the token | Ericsson | 33.122 | 0100 | - | Rel-19 | F | CAPIF\_Ph3\_sec | not pursued |
| S3-252220 | Clarification on client credential flow – Rel-18 | Ericsson | 33.122 | 0101 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-252221 | Clarification on client credential flow | Ericsson | 33.122 | 0102 | - | Rel-19 | A | SNAAPPY | not pursued |
| S3-252247 | RO definition | Nokia, Lenovo | 33.122 | 0103 | - | Rel-19 | F | CAPIF\_Ph3\_sec | not pursued |
| S3-252396 | CR on RO authorization | Huawei, HiSilicon, Nokia, Xiaomi, Lenovo, CATT, China Telecom, Ericsson | 33.122 | 0104 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-252426 | Resource Owner authentication revocation | China Telecom Corporation Ltd. | 33.122 | 0105 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-252427 | Authorization for finer level service API access | Nokia, Huawei | 33.122 | 0106 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-252428 | Security procedures for CAPIF interconnection | Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson | 33.122 | 0107 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-252429 | Cross UE authorization | Xiaomi Communications | 33.122 | 0108 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-252430 | CR on Nested API | Ericsson, Samsung, Xiaomi, Nokia,CATT | 33.122 | 0109 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-252431 | Onboarding API Invoker Residing in the UE | Lenovo, Nokia, Ericsson | 33.122 | 0110 | - | Rel-19 | B | CAPIF\_Ph3\_sec | agreed |
| S3-251866 | [33.180] Alignment of Logging Recording and Audit | Airbus | 33.180 | 0220 | - | Rel-19 | F | MCXSec4 | revised |
| S3-252348 | [33.180] Alignment of Logging Recording and Audit | Airbus | 33.180 | 0220 | 1 | Rel-19 | F | MCXSec4 | agreed |
| S3-252008 | Clarification about security for MC over IOPS | Huawei, HiSilicon | 33.180 | 0221 | - | Rel-19 | F | MCXSec4 | not pursued |
| S3-252200 | Signing and verification of third party user identity information in IMS | Ericsson | 33.203 | 0285 | - | Rel-19 | B | NG\_RTC\_SEC\_Ph2 | revised |
| S3-252300 | Signing and verification of third party user identity information in IMS | Ericsson | 33.203 | 0285 | 1 | Rel-19 | B | NG\_RTC\_SEC\_Ph2 | agreed |
| S3-252145 | New JWS profiles for CCA tokens and access tokens | Ericsson | 33.210 | 0086 | - | Rel-19 | B | TEI19 | not pursued |
| S3-252180 | Correcting inconsistencies to clause 6.2.3 of 33.210 | Qualcomm Incorporated | 33.210 | 0087 | - | Rel-19 | F | CryptoSP | revised |
| S3-252394 | Correcting inconsistencies to clause 6.2.3 of 33.210 | Qualcomm Incorporated | 33.210 | 0087 | 1 | Rel-19 | F | CryptoSP | agreed |
| S3-251848 | Clean up and correction of test names in 33.216 | BSI (DE) | 33.216 | 0033 | - | Rel-19 | F | SCAS\_5G\_Maint | revised |
| S3-252321 | Clean up and correction of test names in 33.216 | BSI (DE) | 33.216 | 0033 | 1 | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-252055 | Adding support for multiple USSs | Qualcomm Incorporated, InterDigital, Ericsson, Huawei | 33.256 | 0053 | - | Rel-19 | B | UAS\_Ph3\_Sec | revised |
| S3-252314 | Adding support for multiple USSs | Qualcomm Incorporated, InterDigital, Ericsson, Huawei | 33.256 | 0053 | 1 | Rel-19 | B | UAS\_Ph3\_Sec | agreed |
| S3-251998 | Clarification for CMP over TLS | Huawei, HiSilicon | 33.310 | 0211 | - | Rel-18 | F | ACM\_SBA | revised |
| S3-252267 | Clarification for CMP over TLS | Huawei, HiSilicon | 33.310 | 0211 | 1 | Rel-18 | F | ACM\_SBA | agreed |
| S3-251999 | Clarification for certificate lifecycle management | Huawei, HiSilicon | 33.310 | 0212 | - | Rel-19 | F | TEI19 | not pursued |
| S3-252002 | Clarification for CMP over TLS | Huawei, HiSilicon | 33.310 | 0213 | - | Rel-19 | A | ACM\_SBA | revised |
| S3-252268 | Clarification for CMP over TLS | Huawei, HiSilicon | 33.310 | 0213 | 1 | Rel-19 | A | ACM\_SBA | agreed |
| S3-252189 | Making NF type as pre-registered parameter in CA/RA for IAK method | Ericsson | 33.310 | 0214 | - | Rel-19 | F | TEI19 | agreed |
| S3-252400 | Automatic certificate management (ACME) for the Service Based Architecture (SBA) | Cisco | 33.310 | 0215 | - | Rel-19 | B | ACME\_SBA | agreed |
| S3-252115 | Changing DC to Data Channel | Huawei, HiSilicon | 33.328 | 0081 | - | Rel-18 | F | NG\_RTC\_SEC | agreed |
| S3-252411 | Security and privacy of IMS capability exposure | Ericsson, Huawei, HiSilicon, China Mobile, Nokia, Nokia Shanghai Bell | 33.328 | 0082 | - | Rel-19 | B | NG\_RTC\_SEC\_Ph2 | agreed |
| S3-252424 | Security aspects of 5G satellite access | CATT | 33.401 | 0727 | - | Rel-19 | B | 5GSAT\_Ph3\_SEC | agreed |
| S3-251889 | AIMLE Security Alignment | Lenovo | 33.434 | 0021 | - | Rel-19 | B | TEI19 | agreed |
| S3-252155 | Fix issues on SEAL security framework | Nokia, Nokia Shanghai Bell | 33.434 | 0022 | - | Rel-18 | F | TEI18 | not pursued |
| S3-252425 | Security procedures for mobile metaverse services | Samsung | 33.434 | 0023 | - | Rel-19 | B | Metaverse\_Sec | agreed |
| S3-251835 | Token-based authorization for indirect communication scenarios when NF is selected at target PLMN | Ericsson, Nokia | 33.501 | 2135 | - | Rel-19 | B | DUMMY | agreed |
| S3-251865 | Selection of authentication mode for MRI in forwarded mode | Nokia | 33.501 | 2136 | - | Rel-19 | F | XRM\_Ph2-SEC | merged |
| S3-251984 | Security for PLMN hosting a NPN | China Telecom, ZTE | 33.501 | 2137 | - | Rel-19 | B | PLMNNPN | agreed |
| S3-252101 | Removal of the terminology “AS root key” | Apple, NTT DOCOMO, Qualcomm Incorporated | 33.501 | 2138 | - | Rel-19 | F | TEI19 | agreed |
| S3-252121 | Addressing the EN on the concrete modes of AES for protecting XRM Media related information when using connect-UDP forwarded mode | Huawei, HiSilicon | 33.501 | 2139 | - | Rel-19 | F | XRM\_Ph2-SEC | merged |
| S3-252123 | Addressing the ENs of Key derivation, Nonce and counter values, and VCID uniqueness in the forwarding mode. | Huawei, HiSilicon | 33.501 | 2140 | - | Rel-19 | F | XRM\_Ph2-SEC | merged |
| S3-252124 | Addressing the EN on the length of the protected MRI content | Huawei, HiSilicon | 33.501 | 2141 | - | Rel-19 | F | XRM\_Ph2-SEC | merged |
| S3-252140 | Checking PLMNID of NF Service Consumer in interconnect scenario | Ericsson, Nokia Nokia Shanghai Bell | 33.501 | 2142 | - | Rel-17 | F | TEI17 | not pursued |
| S3-252141 | Checking PLMNID of NF Service Consumer in interconnect scenario | Ericsson, Nokia, Nokia Shanghai Bell | 33.501 | 2143 | - | Rel-18 | A | TEI17 | not pursued |
| S3-252142 | Checking PLMNID of NF Service Consumer in interconnect scenario | Ericsson, Nokia, Nokia Shanghai Bell | 33.501 | 2144 | - | Rel-19 | A | TEI17 | not pursued |
| S3-252181 | Providing security details for forwarding mode in XRM | Ericsson | 33.501 | 2145 | - | Rel-19 | F | XRM\_Ph2-SEC | revised |
| S3-252307 | Providing security details for forwarding mode in XRM | Ericsson | 33.501 | 2145 | 1 | Rel-19 | F | XRM\_Ph2-SEC | agreed |
| S3-252183 | Multiple Editorial corrections | Nokia | 33.501 | 2146 | - | Rel-18 | F | TEI18 | agreed |
| S3-252184 | Multiple Editorial correction | Nokia | 33.501 | 2147 | - | Rel-19 | A | TEI18 | agreed |
| S3-252212 | Clarification of the intended applicability and requirements for Annex V | Ericsson | 33.501 | 2148 | - | Rel-19 | F | TEI19 | revised |
| S3-252269 | Clarification of the intended applicability and requirements for Annex V | Ericsson | 33.501 | 2148 | 1 | Rel-19 | F | TEI19 | not pursued |
| S3-252230 | Clarification on naming of purposes for user consent | Nanjing vivo Software Tech. | 33.501 | 2149 | - | Rel-17 | F | TEI17 | not pursued |
| S3-252237 | Implementation correction of CR2040 | Nokia | 33.501 | 2150 | - | Rel-19 | F | 5G\_eSBA\_Ph2, TEI19 | revised |
| S3-252265 | Implementation correction of CR2040 | Nokia | 33.501 | 2150 | 1 | Rel-19 | F | 5G\_eSBA\_Ph2, TEI19 | agreed |
| S3-252254 | Clarification on verification of NFc for discovery in roaming scenario | MITRE-FFRDC | 33.501 | 2151 | - | Rel-19 | F | TEI19 | revised |
| S3-252421 | Clarification on verification of NFc for discovery in roaming scenario | MITRE-FFRDC,Nokia | 33.501 | 2151 | 1 | Rel-19 | F | TEI19 | agreed |
| S3-252422 | Public key distribution and Issuer claim verification of the Access Token | Ericsson, Nokia, Nokia Shanghai Bell, NCSC | 33.501 | 2152 | - | Rel-19 | B | DUMMY | agreed |
| S3-252423 | Security procedure for inter-CU LTM | Samsung | 33.501 | 2153 | - | Rel-19 | B | NR\_Mob\_Ph4\_Sec | agreed |
| S3-252432 | Security aspects of Core Network Enhanced Support for AIML | China Mobile, vivo,Huawei, HiSilicon,OPPO,Ericsson,Nokia, Xiaomi,ZTE, CATT | 33.501 | 2154 | - | Rel-19 | B | AIML\_CN\_SEC | agreed |
| S3-252171 | Addressing the Editor’s Notes in multi-hop U2N relay discovery security | Qualcomm Incorporated, Huawei, HiSilicon, China Telecom, Beijing Xiaomi, InterDigital | 33.503 | 0216 | 2 | Rel-19 | C | 5G\_ProSe\_Sec\_Ph3 | agreed |
| S3-252009 | Fix the figures of CP-based multi-hop U2NW link setup | Huawei, HiSilicon | 33.503 | 0219 | - | Rel-19 | F | 5G\_ProSe\_Sec\_Ph3 | not pursued |
| S3-252010 | Clarification and editorial for multi-hop Relay scenarios | Huawei, HiSilicon | 33.503 | 0220 | - | Rel-19 | D | 5G\_ProSe\_Sec\_Ph3 | revised |
| S3-252273 | Clarification and editorial for multi-hop Relay scenarios | Huawei, HiSilicon | 33.503 | 0220 | 1 | Rel-19 | F | 5G\_ProSe\_Sec\_Ph3 | agreed |
| S3-252132 | Add note for security of prose in npns | China Telecom, Nokia, Nokia Shanghai Bell | 33.503 | 0221 | - | Rel-19 | F | 5G\_ProSe\_Sec\_Ph3 | not pursued |
| S3-251849 | Addition of test names and Clean up of 33.511 | BSI (DE) | 33.511 | 0086 | - | Rel-19 | F | SCAS\_5G\_Maint | revised |
| S3-252322 | Addition of test names and Clean up of 33.511 | BSI (DE) | 33.511 | 0086 | 1 | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251899 | Wrong test steps for IPSec testing in N2/Xn | Keysight Technologies UK Ltd | 33.511 | 0087 | - | Rel-19 | F | SCAS\_5G\_Maint | not pursued |
| S3-251924 | Correction of TC on replay protection | MITRE-FFRDC | 33.511 | 0088 | - | Rel-19 | F | SCAS\_5G\_Maint | not pursued |
| S3-251857 | Correction of test case and clean up of 33.512 | BSI (DE) | 33.512 | 0045 | - | Rel-19 | F | SCAS\_5G\_Maint | revised |
| S3-252323 | Correction of test case and clean up of 33.512 | BSI (DE) | 33.512 | 0045 | 1 | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251850 | Correction of test names and clean up of 33.513 | BSI (DE) | 33.513 | 0015 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251851 | Clean up of 33.514 | BSI (DE) | 33.514 | 0034 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251852 | Correction of test names and clean up of 33.515 | BSI (DE) | 33.515 | 0012 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251853 | Addition of test name and clean up of 33.517 | BSI (DE) | 33.517 | 0013 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251854 | Clean up of 33.523 | BSI (DE) | 33.523 | 0012 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251855 | Clean up of 33.527 and correction of test names | BSI (DE) | 33.527 | 0008 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-251846 | Minor editorial corrections and clean-up | IIT Bombay | 33.529 | 0002 | - | Rel-19 | F | SCAS\_5G\_Maint | merged |
| S3-251856 | Clean up of 33.529 | BSI (DE) | 33.529 | 0003 | - | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-252116 | Solving issues to TS 33.529 according to LS from GSMA NESASG | Huawei, HiSilicon | 33.529 | 0004 | - | Rel-19 | F | SCAS\_5G\_SMSF | revised |
| S3-252319 | Solving issues to TS 33.529 according to LS from GSMA NESASG | Huawei, HiSilicon | 33.529 | 0004 | 1 | Rel-19 | F | SCAS\_5G\_SMSF | agreed |
| S3-251934 | Add clause 6.3 in the Kaf derivation descriptions - R17 | ZTE | 33.535 | 0231 | - | Rel-17 | F | AKMA | agreed |
| S3-251935 | Add clause 6.3 in the Kaf derivation descriptions - R18Mirror | ZTE | 33.535 | 0232 | - | Rel-18 | A | AKMA | agreed |
| S3-252014 | Update service disabling procedure | China Mobile, ZTE | 33.535 | 0233 | - | Rel-18 | F | AKMA\_Ph2 | revised |
| S3-252393 | Update service disabling procedure | China Mobile, ZTE | 33.535 | 0233 | 1 | Rel-18 | F | AKMA\_Ph2 | agreed |
| S3-251937 | Add PCAP traces in clause 4.2.2.1 | ZTE | 33.537 | 0006 | - | Rel-19 | F | SCAS\_5G\_AAnF | merged |
| S3-252119 | Solving the improvement point to TS 33.537 according to LS from GSMA NESASG | Huawei, HiSilicon | 33.537 | 0007 | - | Rel-19 | F | SCAS\_5G\_SMSF | revised |
| S3-252324 | Solving the improvement point to TS 33.537 according to LS from GSMA NESASG | Huawei, HiSilicon | 33.537 | 0007 | 1 | Rel-19 | F | SCAS\_5G\_Maint | agreed |
| S3-252011 | Clarification to clause 4.1 | Huawei, Hisilicon,Nokia, ZTE | 33.545 | 0017 | - | Rel-19 | F | 5G\_Femto\_Sec | revised |
| S3-252274 | Clarification to clause 4.1 | Huawei, Hisilicon,Nokia, ZTE | 33.545 | 0017 | 1 | Rel-19 | F | 5G\_Femto\_Sec | agreed |
| S3-251936 | update to AKMA based mechanism | ZTE Corporation | 33.558 | 0022 | - | Rel-19 | F | EDGE\_Ph3 | not pursued |
| S3-252239 | Miscellaneous updates in introductionary part | Xiaomi, Nokia | 33.700-22 | 0002 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | revised |
| S3-252312 | Miscellaneous updates in introductionary part | Xiaomi, Nokia | 33.700-22 | 0002 | 1 | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252240 | Missing clarifications and typos correction | Xiaomi, Nokia | 33.700-22 | 0003 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252241 | Implementation of original figures | Xiaomi, Nokia | 33.700-22 | 0004 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | revised |
| S3-252313 | Implementation of original figures | Xiaomi, Nokia | 33.700-22 | 0004 | 1 | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252242 | Solution 11 editorial updates | Nokia | 33.700-22 | 0005 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252243 | Solution 13 figure update and FFS resolution | Nokia | 33.700-22 | 0006 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252244 | Solution 19 figure update and formatting issues | Nokia | 33.700-22 | 0007 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252245 | Solution 20 figure update and formatting issues | Nokia | 33.700-22 | 0008 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-252246 | Solution 21 restructuring and formatting | Nokia | 33.700-22 | 0009 | - | Rel-19 | F | FS\_CAPIF\_Ph3-sec | agreed |
| S3-251844 | Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | MCC | 33.926 | 0105 | - | Rel-19 | B | SCAS\_5G\_SMSF | agreed |
| S3-251867 | Minor editorial modification | IIT Bombay | 33.926 | 0106 | - | Rel-19 | F | SCAS\_5G\_SMSF | agreed |
| S3-251872 | ZUC number of initialisation rounds | Nokia | 35.246 | 0001 | - | Rel-19 | F | 256\_Algo | revised |
| S3-252266 | ZUC number of initialisation rounds | Nokia | 35.246 | 0001 | 1 | Rel-19 | F | 256\_Algo | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-251815 |  | LS on Device Subscription Data | S2-2501242 | replied to | S3-252259 |
| S3-251816 |  | Reply to LS on IMS support for AF authorization and IMS avatar communication | S2-2502434 | replied to | S3-252297 |
| S3-251817 |  | LS on the scope attribute of the access token standard claims | S5-251112 | replied to | S3-252260 |
| S3-251818 |  | Reply LS on secure storage and processing of credentials for AIoT | ETSI TC SET | postponed | (none) |
| S3-251819 |  | Reply LS on including the HPLMN ID in the PC5 discovery messages for 5G ProSe UE-to-UE relay | C1-252256 | noted | (none) |
| S3-251820 |  | LS on feedback for IMS resiliency study | C4-251492 | noted | (none) |
| S3-251821 |  | LS to 3GPP SA3 re Adoption of TS 33.520, 33.528, 33.529, 33.530 and 33.537 as NESAS SCASes | GSMA | replied to | S3-252325 |
| S3-251822 |  | LS on AI/ML UE sided data collection | R2-2503168 | noted | (none) |
| S3-251823 |  | Reply LS on signalling feasibility of dataset and parameter sharing | R2-2503169 | noted | (none) |
| S3-251824 |  | Reply LS for Reply LS on security handling for inter-CU LTM in non-DC cases | R3-252449 | noted | S3-252398 |
| S3-251825 |  | Reply LS on Privacy and security aspects regarding DC management by the network | S2-2504207 | noted | (none) |
| S3-251826 |  | LS on AIoT device identifier length | S2-2504296 | noted | (none) |
| S3-251827 |  | Reply LS on OSAppID usage by AppToken use case | S2-2504468 | noted | (none) |
| S3-251828 |  | LS on Management of secure backhaul for NTN | S5-251990 | noted | (none) |
| S3-251830 |  | LS on LP-WUS subgrouping progress | R2-2503182 | noted | (none) |
| S3-251832 |  | LS on Towards a common definition of Zero Trust | ITU-T Study Group 17 | replied to | S3-252261 |
| S3-251833 |  | LS on Avatar Security Aspects | S4-250715 | replied to | S3-252296 |
| S3-251839 |  | LS on establishment of a new work item Technical Report ITU-T TR.FMSC-IMT2030 “Security technologies of fixed, mobile and satellite convergence for IMT-2030 networks” | ITU-T SG17 | noted | ???? |
| S3-251840 |  | LS on the establishment of a new work item ITU-T X.s-isac “Security guidelines for integrated sensing and communication in IMT-2020 networks and beyond” | ITU-T SG17 | noted | ???? |
| S3-251841 |  | LS on the establishment of a new work item ITU-T X.uc-zt-5g “Security threats associated with use cases for applying zero trust to IMT-2020 private network deployments” | ITU-T SG17 | noted | (none) |
| S3-251842 |  | O-RAN ALLIANCE – 3GPP collaboration on PQC | O-RAN | postponed | (none) |
| S3-251843 |  | LS on LI requirements on IMS Data Channel | s3i250185 | noted | (none) |
| S3-252256 |  | LS to 3GPP about the external data channel content access requirements | GSMA | postponed | (none) |
| S3-252257 |  | LS from GSMA TSG IMSDCAS to 3GPP SA3 on the data channel security study and the security requirements | GSMA | noted | (none) |
| S3-252258 |  | LS on the creation of the Getting Ready for Energy-Efficient Networking  Working Group in the IETF | IETF | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-252259 | reply LS on Device Subscription Data | SA2 | - | S3-251815 |
| S3-252260 | Reply to: LS on the scope attribute of the access token standard claims | SA5 | CT3, SA6 | S3-251817 |
| S3-252261 | LS reply on a common definition of Zero Trust | ITU-T Study Group 17 | - | S3-251832 |
| S3-252263 | LS on USS changeover procedure | SA2 | - | - |
| S3-252264 | LS on PLMN ID checks in interconnect scenarios when NFc supports multiple PLMN IDs | CT4 | CT3 | - |
| S3-252296 | LS on Avatar Security Aspects | SA4,SA2 | - | S3-251833 |
| S3-252297 | Reply LS on authorization and authentication in Avatar communication | SA2,SA4 | - | S3-251816 |
| S3-252325 | Reply LS on adoption of newly published 3GPP SCASes | GSMA NESASG | - | S3-251821 |
| S3-252335 | LS on power and energy consumption budget for security features in AioT | RAN1, RAN | - | - |
| S3-252392 | LS on security parameter in paging message | RAN2 | SA2 |  |
| S3-252398 | Reply LS on security handling for inter-CU LTM in non-DC cases | RAN3 | RAN2 | S3-251824 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-252360 | Study on Preparing for Transition to Post Quantum Cryptography in 3GPP | Nokia, Ericsson | SID new |
| S3-251838 | Security related Events Handling | Vodafone, AT&T, BT, Charter Communications, Deutsche Telekom, Ericsson, IIT Bombay, KDDI, Nokia, NTT DOCOMO, Orange, Telecom Italia, Telefonica, T-Mobile USA, Verizon | WID new |
| S3-252350 | New WID on SCAS | Huawei, HiSilicon,Huawei, HiSilicon, BSI (DE), China Telecom, China Mobile, Keysight Technologies UK Ltd., Nokia, Nokia Shanghai Bell, China Unicom, CATT, CAICT | WID new |
| S3-252351 | Mini WID for Roaming and interconnect authorization aspects in indirect communication | Nokia | WID new |
| S3-252353 | New WID on mission critical security enhancements for release 20 | Motorola Solutions Germany | WID new |
| S3-252397 | WID on Public key distribution and Issuer claim verification of the Access Token | Ericsson, NCSC, Huawei, AT&T, Deutsche Telekom, BT,Nokia | WID new |
| S3-252349 | Revised WID on security support for the Next Generation Real Time Communication services Phase 2 | Ericsson | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-252286 | 33.790 | 1.4.0 | Draft TR 33.790 |
| S3-252287 | 33.369 | 0.2.0 | Draft TS 33.369 |
| S3-252288 | 33.713 | 0.9.0 | Draft TR 33.713 |
| S3-252289 | 33.938 | 0.3.0 | Draft TR 33.938 |

## Annex F: List of participants

|  |  |  |  |  |
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| Dr. | Wang | Shoufeng | AsiaInfo Technologies Inc | AsiaInfo |
| Mr. | Wang | Wen | vivo Mobile Communication Co., | iQoo |
| Dr. | Wang | Yaxin | OPPO | OPPO (chongqing) Intelligence |
| Dr. | Wang | Zhaoning | China Unicom | CU Digital Technology |
| Mr. | Wenham | Steven | Huawei Technologies R&D UK | Huawei Technologies R&D UK |
| Mr. | Wong | Marcus | OPPO | OnePlus |
| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | Motorola Solutions Germany |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | Beijing Xiaomi Software Tech |
| Miss | wu | weizhi | IPLOOK | IPLOOK |
| Mr. | Wu | Xiaobo | vivo Mobile Communication Co., | vivo Mobile Communication Co., |
| Dr. | Xiao | Xun | HUAWEI TECH. GmbH | HUAWEI TECH. GmbH |
| Dr. | Xie | Lifeng | Pengcheng Laboratory | Pengcheng Laboratory |
| Mr. | Xie | Pengxiang | ZTE Corporation | ZTE Photonics |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., | VIVO TECH GmbH |
| Mr. | Xie | Zhonghuai | China Unicom | VSENS |
| Mr. | Xing | TianQi | China Unicom | China Unicom |
| Ms. | Xing | Zhen | ZTE Corporation | ZTE Corporation |
| Mr. | Xing | Zhen | China Unicom | CUG |
| Mr. | Xiong | Chunshan | CICT | Datang Linktester Technology |
| Miss | Xiong | Lihui | OPPO | Shenzhen Heytap |
| Dr. | Xu | Tianni | China Mobile Com. Corporation | China Mobile E-Commerce Co. |
| Mr. | Xu | Yang | Guangdong OPPO Mobile Telecom. | Guangdong OPPO Mobile Telecom. |
| Ms. | Xu | Yishan | Huawei Technologies R&D UK | HUAWEI TECH. GmbH |
| Mr. | You | Shilin | ZTE Corporation | Sanechips |
| Mr. | Youn | Myungjune | LG Electronics France | LG Electronics Polska |
| Mr. | Yu | Hang | vivo Mobile Com. (Chongqing) | GUANGDONG GENIUS TECHNOLOGY CO |
| Dr. | Yue | Yi | China Unicom | Unicom Broadband Online |
| Dr. | Zhang | Amy | vivo Mobile Communication Co., | vivo Wisdom Technology |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | HiSilicon Technologies Co. Ltd |
| Miss | Zhang | Juan | Qualcomm Korea | QUALCOMM Europe Inc. - Italy |
| Mr. | Zhang | Kefeng | Qualcomm Incorporated | QUALCOMM Europe Inc. - Spain |
| Ms. | Zhang | Leyi | ZTE FRANCE SASU | ZONSON |
| Miss | Zhang | Yuying | China Telecom Corporation Ltd. | E-surfing Digital |
| Dr. | Zhang | Zhuoyun | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Dr. | Zheng | Lizhuo | Motorola Mobile Com Technology | Lenovo Future Communications |
| Mr. | Zhou | Runze | Huawei Technologies France | Huawei Tech. Japan, K.K. |
| Mr. | Zhou | Wei | CATT | CICTCI |
| Mr. | Zhu | Chunhui | NEC Corporation (ARIB) | NEC Corporation (ARIB) |
| Mr. | Zhu | Jinguo | ZTE Corporation | ZTE |
| Mr. | Zisimopoulos | Haris | Qualcomm Technologies Int | QWCT |
| Dr. | Zugenmaier | Alf | NTT DOCOMO INC. | NTT DOCOMO INC. |

## Annex G: List of future meetings

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| --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country |
| S3-123 | 25-08-2025 | 29-08-2025 | Goteborg | Sweden |
| S3-124 | 13-10-2025 | 17-10-2025 | Wuhan | China |
| S3-125 | 17-11-2025 | 21-11-2025 | Dallas | US |