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

**Meeting Report  
for  
TSG SA WG3  
meeting: 115AdHoc-e**

**Electronic meeting, Online, 15/04/2024 to 19/04/2024**

Contents:

1 Agenda and Meeting Objectives 3

2 Meeting Reports 3

3 Reports and Liaisons from other Groups (selected LS corresponding to topics in the agenda) 3

4 Work areas 4

4.1 Maintenance (Rel-15/16/17/18) 4

4.1.1 Security Assurance 4

4.1.2 Service Based Architecture 4

4.1.3 Security Aspects of Proximity based services in 5GS ProSe 4

4.1.4 Mission Critical 4

4.1.5 Authentication and key management for applications based on 3GPP credential in 5G 4

4.1.6 Enhancements to User Plane Integrity Protection Support in 5GS 4

4.1.7 Security Aspects of Enhancements for 5G Multicast-Broadcast Services 4

4.1.8 Security for enhanced support of Industrial IoT 4

4.1.9 Security Aspects of eNPN 4

4.1.10 Security Aspects of Enhancement of Support for Edge Computing in 5GC 4

4.1.11 Security aspects of Uncrewed Aerial Systems 4

4.1.12 Security Aspects of Ranging Based Services and Sidelink Positioning 4

4.1.13 Security Aspects of eNA (Only contributions to resolve the model sharing will be treated). 4

4.1.14 Modified PRINS for roaming service providers in 5G 6

4.1.15 All other maintenance topics (not listed above) 6

4.2 WID on 5G Security Assurance Specification (SCAS) for the Unified Data Repository (UDR). 6

4.3 WID on SCAS for Rel-18 features on existing functions. 6

4.4 WID on 5G Security Assurance Specification (SCAS) for the Short Message Service Function (SMSF). 6

4.5 WID on Addition of 256-bit security Algorithms. 6

4.6 WID on mission critical security enhancements for release 19 6

4.7 WID on Addition of Milenage-256 algorithm 6

4.8 WID on 3GPP profiles for cryptographic algorithms and security protocols 6

4.9 WID on security aspects of the 5GMSG Service phase 3 9

4.10 R19 SCAS WID 10

5 Rel-19 Studies 10

5.1 Study on enablers for Zero Trust Security 10

5.2 Study on the security support for the Next Generation Real Time Communication services phase 2 15

5.3 Study on security for PLMN hosting a NPN 17

5.4 Study of ACME for Automated Certificate Management in SBA 23

5.5 Study on enabling a cryptographic algorithm transition to 256-bits 25

5.6 Study on mitigations against bidding down attacks 29

5.7 Study on security Aspects of 5G Satellite Access Phase 2 32

5.8 Study on security for mobility over non-3GPP access to avoid full primary authentication 40

5.9 Study on security Aspect of Ambient IoT Services in 5G 46

5.10 SID on security aspects of Usage of User Identities 52

5.11 R19 SID on UAS security enhancement 57

5.12 Study on security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3 59

5.13 SID on security aspects of AIML enhancements 63

5.14 SID\_EdgeComputing 67

5.15 SID on security aspects for Multi-Access 69

5.16 SID on 5GS enhancements for Energy Saving 72

5.17 SID on security aspects of 5G NR Femto 74

5.18 SID on security aspects of 5G Mobile Metaverse services 78

6 New Study/Work item proposals 81

7 CVD and research 81

8 Any Other Business 81

Annex A: Contribution documents and status 82

A1: List of TDocs 82

A2: Tdoc decision timing 98

Annex B: List of change requests 105

Annex C: Lists of liaisons 106

C1: Incoming liaison statements 106

C2: Outgoing liaison statements 106

Annex D: List of draft Technical Specifications and Reports 107

Annex E: List of participants 108

Annex F: List of future meetings 110

## 1 Agenda and Meeting Objectives

**S3-241100 Agenda**

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

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

**S3-241101 Process for SA3#115adHoc-e**

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

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

**S3-241102 Detail agenda planning for SA3#115AdHoc-e**

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

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

## 2 Meeting Reports

**S3-241656 Chair notes**

*Type: report For: Information  
 Source: SA3 WG Chair*

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

## 3 Reports and Liaisons from other Groups (selected LS corresponding to topics in the agenda)

**S3-241393 LS to CT on IANA reservation on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203**

*Type: LS out For: (not specified)  
 to CT  
 Source: Apple*

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

**S3-241484 LS on vulnerability due to null ciphering request by network**

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

**Abstract:**

End users should have the ability to reject a connection automatically if the selected security algorithms put their privacy at risk. This would be for example in the case of a null cipher or some other feature that might eventually become weak or discove

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

**S3-241495 Reply LS on request to change integrity algorithm of 256-NIA3 / 256-NCA3**

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

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

## 4 Work areas

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

#### 4.1.1 Security Assurance

#### 4.1.2 Service Based Architecture

#### 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

#### 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

#### 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 (Only contributions to resolve the model sharing will be treated).

**S3-241313 Discussion paper for authorization of AIML model sharing**

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

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

**S3-241314 Update procedure for secured and authorized AI/ML model sharing**

*Type: CR For: Approval  
 33.501 v18.5.0 CR-1974 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, vivo, Intel*

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

**S3-241361 Discussion of "Update procedure for secured and authorized AI/ML model sharing"**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-241363 Update procedure for secured and authorized AI/ML model sharing**

*Type: CR For: Agreement  
 33.501 v18.5.0 CR-1976 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241501**.

**S3-241369 Authorization of NWDAF MTLF to request FL process on behalf of AnLF**

*Type: CR For: Agreement  
 33.501 v18.5.0 CR-1977 Cat: F (Rel-18)  
  
 Source: Nokia*

**Decision:** The document was **revised to S3-241562**.

**S3-241498 LS on Security of ML model sharing**

*Type: LS out For: (not specified)  
 to SA2, cc CT4,SA  
 Source: vivo Wisdom Technology*

**Decision:** The document was **revised to S3-241635**.

**S3-241501 Update procedure for secured and authorized AI/ML model sharing**

*Type: CR For: Agreement  
 33.501 v18.5.0 CR-1976 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, vivo, Intel*

(Replaces S3-241363)

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

**S3-241562 Authorization of NWDAF MTLF to request FL process on behalf of AnLF**

*Type: CR For: Agreement  
 33.501 v18.5.0 CR-1977 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Ericsson*

(Replaces S3-241369)

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

**S3-241635 LS on Security of ML model sharing**

*Type: LS out For: (not specified)  
 to SA2, cc SA  
 Source: vivo Wisdom Technology*

(Replaces S3-241498)

**Decision:** The document was **revised to S3-241649**.

**S3-241649 LS on Security of ML model sharing**

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

(Replaces S3-241498)

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

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

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

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

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

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

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

### 4.6 WID on mission critical security enhancements for release 19

**S3-241109 [33.180] MC migration service authentication and authorization**

*Type: CR For: Approval  
 33.180 v18.1.0 CR-0211 Cat: F (Rel-18)  
  
 Source: Motorola Solutions*

**Abstract:**

Update MC migration service authentication and authorization procedure based on SA6 changes

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

### 4.7 WID on Addition of Milenage-256 algorithm

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

**S3-241107 Living document for CryptoSP: draftCR to TS 33.210, Updates to cryprographic profiles**

*Type: draftCR For: Approval  
 33.210 v18.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241499**.

**S3-241108 Living document for CryptoSP: draftCR to TS 33.501, Updates to cryptographic profiles**

*Type: draftCR For: Approval  
 33.501 v18.5.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241500**.

**S3-241277 Updates to the 3GPP TLS profile**

*Type: other For: Approval  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241521**.

**S3-241298 Updates to TLS protocol profiles**

*Type: CR For: Approval  
 33.210 v18.0.0 CR-0082 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241305 update to the Profiling for TLS 1.3**

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

**Decision:** The document was **revised to S3-241633**.

**S3-241347 Updates for deprecation of TLS1.0 and TLS1.1**

*Type: CR For: Approval  
 33.501 v18.5.0 CR-1975 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241278 Clarification that 64-bit random IVs are forbidden in ESP**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-241279 Implicit Initialization Vector (IV) for Counter-Based Ciphers in ESP**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-241296 Updates to Profiling of IPsec**

*Type: CR For: Approval  
 33.210 v18.0.0 CR-0081 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241306 Update to IKEv2 authentication**

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

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

**S3-241280 Correcting terminologies related to DTLS over SCTP**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-241281 Clarifying vulnerabilities in DTLS over SCTP**

*Type: other For: Approval  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241523**.

**S3-241299 Updates related to references**

*Type: CR For: Approval  
 33.501 v18.5.0 CR-1973 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241319 Updating Obsolete RFC 2252 by RFC 4510**

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

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

**S3-241438 Clarifications of privacy options for EAP-TLS**

*Type: other For: Approval  
 Source: Ericsson LM*

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

**S3-241487 Discussion on working procedure for WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: discussion For: Endorsement  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-241557**.

**S3-241499 Living document for CryptoSP: draftCR to TS 33.210, Updates to cryprographic profiles**

*Type: draftCR For: Approval  
 33.210 v18.0.0  
 Source: Ericsson*

(Replaces S3-241107)

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

**S3-241500 Living document for CryptoSP: draftCR to TS 33.501, Updates to cryptographic profiles**

*Type: draftCR For: Approval  
 33.501 v18.5.0  
 Source: Ericsson*

(Replaces S3-241108)

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

**S3-241508 Living document for CryptoSP: draftCR to TS 33.310, Updates to cryptographic profiles**

*Type: draftCR For: (not specified)  
 33.310 v19.0.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S3-241521 Updates to the 3GPP TLS profile**

*Type: other For: Approval  
 Source: Ericsson*

(Replaces S3-241277)

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

**S3-241523 Clarifying vulnerabilities in DTLS over SCTP**

*Type: other For: Approval  
 Source: Ericsson*

(Replaces S3-241281)

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

**S3-241557 Discussion on working procedure for WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: discussion For: Endorsement  
 Source: NTT DOCOMO INC.*

(Replaces S3-241487)

**Decision:** The document was **endorsed**.

**S3-241633 update to the Profiling for TLS 1.3**

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

(Replaces S3-241305)

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

### 4.9 WID on security aspects of the 5GMSG Service phase 3

**S3-241230 Authentication and Authorization in bulk registration scenarios**

*Type: draftCR For: Approval  
 33.501 v18.5.0  
 Source: China Mobile*

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

**S3-241532 Living document of security aspects of MSGin5G service Ph3**

*Type: draftCR For: Approval  
 33.501 v18.5.0  
 Source: China Mobile*

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

### 4.10 R19 SCAS WID

## 5 Rel-19 Studies

### 5.1 Study on enablers for Zero Trust Security

**S3-241341 Discussion on the exposure of security related data**

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

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

**S3-241141 Resolving EN on data exposure**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

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

**S3-241140 Resolving EN on dynamic security policy enforcement**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

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

**S3-241425 Update of the security assumptions**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241527**.

**S3-241139 Updates to Malformed Message Usecase**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

**Decision:** The document was **revised to S3-241570**.

**S3-241339 Evaluation for the use case on malformed messages**

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

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

**S3-241426 Update on malformed messages in the 5G SBA**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson*

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

**S3-241138 Updates to Massive number of SBI messages**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

**Decision:** The document was **revised to S3-241568**.

**S3-241340 Evaluation for the use case on number of messages**

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

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

**S3-241154 Resolve EN and provide updates to use case 3**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: MITRE Corporation, US NSA, Lenovo*

**Abstract:**

Provides updates to TR 33.794 use case #3 and resolves EN

**Decision:** The document was **revised to S3-241537**.

**S3-241155 Resolve EN and provide updates to use case 4**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: MITRE Corporation, US NSA, Lenovo*

**Abstract:**

Provides updates to TR 33.794 use case #4 and resolves EN

**Decision:** The document was **revised to S3-241538**.

**S3-241103 New use case for security evaluation and monitoring: NFV vulnerabilities**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Dell Technologies*

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

**S3-241104 New use case for security evaluation and monitoring: API security risks**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Dell Technologies*

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

**S3-241105 New use case for security evaluation and monitoring: Man-in-the-Middle (MitM) attacks**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Dell Technologies*

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

**S3-241106 New use case for security evaluation and monitoring: Identity spoofing and impersonation (Aka Rogue Elements)**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Dell Technologies*

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

**S3-241156 Abnormal SBI Call Flow**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: US National Security Agency, MITRE Corporation, OTD\_US*

**Decision:** The document was **revised to S3-241604**.

**S3-241320 Data related to failed audience claim in the access token**

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

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

**S3-241137 Updates to Access control decision enhancement usecase**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

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

**S3-241136 Updates to KI#1**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, Nokia, Nokia Shanghai Bell, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

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

**S3-241423 Adding requirements to KI#1 "Data exposure for security evaluation and monitoring"**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241525**.

**S3-241135 New KI on dynamic security policy enforcement**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

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

**S3-241424 Adding Key Issue on WT2 "Security mechanism for dynamic policy enforcement"**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241526**.

**S3-241445 New Key Issue on data exposure relevant for network level attacks**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Nokia*

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

**S3-241437 New Solution for Key Issue 1**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Nokia*

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

**S3-241421 LS on security data management for continuous security monitoring**

*Type: LS out For: Approval  
 to SA5  
 Source: Nokia*

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

**S3-241134 FS\_eZTS Offline Call#3 Minutes**

*Type: report For: Information  
 33.794 v..  
 Source: Lenovo, Motorola Mobility*

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

**S3-241525 Adding requirements to KI#1 "Data exposure for security evaluation and monitoring"**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson, Lenovo, Nokia, Nokia Shanghai Bell, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

(Replaces S3-241423)

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

**S3-241526 Adding Key Issue on WT2 "Security mechanism for dynamic policy enforcement"**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson, Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

(Replaces S3-241424)

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

**S3-241527 Update of the security assumptions**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Ericsson, Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility*

(Replaces S3-241425)

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

**S3-241537 Resolve EN and provide updates to use case 3**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: MITRE Corporation, US NSA, Lenovo, Huawei, HiSilicon*

(Replaces S3-241154)

**Abstract:**

Provides updates to TR 33.794 use case #3 and resolves EN

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

**S3-241538 Resolve EN and provide updates to use case 4**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: MITRE Corporation, US NSA, Lenovo*

(Replaces S3-241155)

**Abstract:**

Provides updates to TR 33.794 use case #4 and resolves EN

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

**S3-241568 Updates to Massive number of SBI messages**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility, Huawei, HiSilicon*

(Replaces S3-241138)

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

**S3-241570 Updates to Malformed Message Usecase**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility, Ericsson, Huawei, HiSilicon*

(Replaces S3-241139)

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

**S3-241604 Abnormal SBI Call Flow**

*Type: pCR For: Approval  
 33.794 v0.1.0  
 Source: US National Security Agency, MITRE Corporation, OTD\_US*

(Replaces S3-241156)

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

**S3-241638 Draft TR 33.794**

*Type: draft TR For: Approval  
 33.794 v0.2.0  
 Source: Lenovo, Motorola Mobility*

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

### 5.2 Study on the security support for the Next Generation Real Time Communication services phase 2

**S3-241208 update the scope of TR 33.790**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241231 Updated Scope of NGRTC\_Ph2\_Sec**

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

**Decision:** The document was **revised to S3-241531**.

**S3-241428 Update of the scope clause**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Ericsson*

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

**S3-241209 new key issue on IMS DC capability exposure**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs*

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

**S3-241227 New Key Issue on security aspects of IMS DC capability exposure**

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

**Decision:** The document was **revised to S3-241528**.

**S3-241210 new key issue on authenticity of DC application**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs, China Mobile*

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

**S3-241211 new sol for KI#1 third\_party\_id**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs*

**Decision:** The document was **revised to S3-241605**.

**S3-241427 New solution for the security of 3rd party specific identities**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-241529**.

**S3-241434 Solution for third party identity authorisation and verification**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-241520**.

**S3-241212 new sol for KI#2 Security of IMS based Avatar Communication**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs*

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

**S3-241213 new sol for KI on IMS DC capability exposure**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs*

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

**S3-241520 Solution for third party identity authorisation and verification**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-241434)

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

**S3-241528 New Key Issue on security aspects of IMS DC capability exposure**

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

(Replaces S3-241227)

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

**S3-241529 New solution for the security of 3rd party specific identities**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Ericsson*

(Replaces S3-241427)

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

**S3-241531 Updated Scope of NGRTC\_Ph2\_Sec**

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

(Replaces S3-241231)

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

**S3-241605 new sol for KI#1 third\_party\_id**

*Type: pCR For: Approval  
 33.790 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs*

(Replaces S3-241211)

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

**S3-241637 Draft TR 33.790 v0.2.0 Study on the security support for the next generation real time communication services phase 2**

*Type: draft TR For: Approval  
 33.790 v0.2.0  
 Source: Ericsson Limited*

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

### 5.3 Study on security for PLMN hosting a NPN

**S3-241159 Remove the EN for interface between customer’s AFs and 5G core network**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-241610**.

**S3-241160 Remove the EN for management interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241265 Resolution of EN concerning including OAM attacks in the study**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-241550**.

**S3-241247 Solve EN of TR 33.757**

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

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

**S3-241266 Resolution EN concerning DoS attack**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241244 New solution for KI#1 of TR 33.757**

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

**Decision:** The document was **revised to S3-241640**.

**S3-241255 New solution to KI#1- CIWF for N4 interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-241596**.

**S3-241219 A new solution on protecting the Hosted NPN**

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

**Decision:** The document was **revised to S3-241613**.

**S3-241223 Solution on the security protection to avoid UE information disclosure**

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

**Decision:** The document was **revised to S3-241617**.

**S3-241245 New solution for KI#2 of TR 33.757**

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

**Decision:** The document was **revised to S3-241641**.

**S3-241258 New solution to KI#2- CIWF as a gateway for SBA interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-241597**.

**S3-241267 New solution to KI#2- CIWF as an delegate for SBA interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-241598**.

**S3-241474 KI#2 New solution for service and information authorization**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-241560**.

**S3-241402 Solution on NF Authorization in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Samsung*

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

**S3-241403 Solution for DNS Security in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241579**.

**S3-241475 KI#2 New solution for topology hiding**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-241561**.

**S3-241115 New solution on SUPI privacy issue in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: IIT Delhi, IIT Bhilai*

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

**S3-241142 Solution to address KI#3**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241571**.

**S3-241158 New solution for SUPI privacy issue**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241246 New solution for KI#3 of TR 33.757**

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

**Decision:** The document was **revised to S3-241642**.

**S3-241404 Solution for SUPI privacy protection in PLMN hosted NPN scenario**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Samsung*

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

**S3-241157 Clean up for TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241161 Add some context for clause 5**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241550 Resolution of EN concerning including OAM attacks in the study**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell, ZTE*

(Replaces S3-241265)

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

**S3-241560 KI#2 New solution for service and information authorization**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Xiaomi communications*

(Replaces S3-241474)

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

**S3-241561 KI#2 New solution for topology hiding**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Xiaomi communications*

(Replaces S3-241475)

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

**S3-241571 Solution to address KI#3**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Lenovo*

(Replaces S3-241142)

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

**S3-241579 Solution for DNS Security in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: Samsung*

(Replaces S3-241403)

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

**S3-241592 New solution to KI#1- CIWF for N4 interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

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

**S3-241593 New solution to KI#2- CIWF as a gateway for SBA interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

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

**S3-241594 New solution to KI#2- CIWF as an delegate for SBA interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

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

**S3-241595 Draft TR 33.757 v0.2.0**

*Type: draft TR For: Approval  
 33.757 v0.2.0  
 Source: China Telecommunications*

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

**S3-241596 New solution to KI#1- CIWF for N4 interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

(Replaces S3-241255)

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

**S3-241597 New solution to KI#2- CIWF as a gateway for SBA interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

(Replaces S3-241258)

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

**S3-241598 New solution to KI#2- CIWF as an delegate for SBA interface**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: China Telecommunications*

(Replaces S3-241267)

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

**S3-241610 Remove the EN for interface between customer’s AFs and 5G core network**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

(Replaces S3-241159)

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

**S3-241611 Remove the EN for interface between customer’s AFs and 5G core network**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241612 Remove the EN for interface between customer’s AFs and 5G core network**

*Type: pCR For: Approval  
 33.757 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241613 A new solution on protecting the Hosted NPN**

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

(Replaces S3-241219)

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

**S3-241617 Solution on the security protection to avoid UE information disclosure**

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

(Replaces S3-241223)

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

**S3-241640 New solution for key issue 1**

*Type: pCR For: (not specified)  
 33.757 v0.1.0  
 Source: China mobile*

(Replaces S3-241244)

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

**S3-241641 New solution for key issue 2**

*Type: pCR For: (not specified)  
 33.757 v0.1.0  
 Source: China mobile*

(Replaces S3-241245)

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

**S3-241642 New solution for key issue 3**

*Type: pCR For: (not specified)  
 33.757 v0.1.0  
 Source: China mobile*

(Replaces S3-241246)

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

### 5.4 Study of ACME for Automated Certificate Management in SBA

**S3-241315 Assumption for use of ACME in 3GPP network**

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

**Decision:** The document was **revised to S3-241600**.

**S3-241133 New Key Issue on supporting all 5G SBA certificate types**

*Type: pCR For: Approval  
 33.776 v0.1.0  
 Source: Google Inc., Charter Communications, US National Security Agency, Cisco Systems*

**Abstract:**

According to TS 33.310, there exist multiple types of certificates supported in the 5G core network, such as TLS client certificates and OAuth 2.0 token signing certificates. An extension of the ACME protocol to support these types of certificates is esse

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

**S3-241149 New key issue on certificate revocation**

*Type: pCR For: Approval  
 33.776 v0.1.0  
 Source: Johns Hopkins University APL, Cisco Systems*

**Decision:** The document was **revised to S3-241650**.

**S3-241382 Addtional limitation in KI#3 on DNS challenge**

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

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

**S3-241383 new solution using NF FQDN as ACME identifier**

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

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

**S3-241384 new solution using NF instance ID as ACME identifier**

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

**Decision:** The document was **revised to S3-241539**.

**S3-241257 Solution proposal for ACME challenge validation**

*Type: pCR For: Approval  
 33.776 v0.1.0  
 Source: Cisco Systems*

**Abstract:**

This contribution proposed a solution that addresses several of the key issues identified in TR 33.776 [1], including Key Issue #1 - ACME initial trust framework and Key Issue #3 - Aspects of challenge validation.

**Decision:** The document was **revised to S3-241534**.

**S3-241385 new solution for client-side certificate**

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

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

**S3-241147 New Key Issue on supporting all 5G SBA certificate types**

*Type: pCR For: Approval  
 33.776 v0.1.0  
 Source: Google Inc.*

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

**S3-241534 Solution proposal for ACME challenge validation**

*Type: pCR For: Approval  
 33.776 v0.1.0  
 Source: Cisco Systems, Google*

(Replaces S3-241257)

**Abstract:**

This contribution proposed a solution that addresses several of the key issues identified in TR 33.776, including Key Issue #1 - ACME initial trust framework and Key Issue #3 - Aspects of challenge validation.

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

**S3-241535 Additional limitation in KI#3 on DNS challenge**

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

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

**S3-241536 Draft TR 33.776**

*Type: draft TR For: Approval  
 33.776 v0.2.0  
 Source: Cisco Systems*

(Replaces S3-240982)

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

**S3-241539 new solution using NF instance ID as ACME identifier**

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

(Replaces S3-241384)

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

**S3-241600 Assumption for use of ACME in 3GPP network**

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

(Replaces S3-241315)

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

**S3-241650 New key issue on certificate revocation**

*Type: pCR For: Approval  
 33.776 v0.1.0  
 Source: Johns Hopkins University APL, Cisco Systems, Google Inc.*

(Replaces S3-241149)

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

### 5.5 Study on enabling a cryptographic algorithm transition to 256-bits

**S3-241190 new kew issue on backward compatibility**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: CableLabs, Charter Communications*

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

**S3-241276 Architecture Assumptions**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241286 UE States and Transitions**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241116 New Key Issue on permanent secret key length (K)**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: KDDI Corporation, Samsung, Xiaomi*

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

**S3-241170 New Key Issue on authentication parameters in AKA procedure**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241466 New KI on AKA related 256-bit algorithm update**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Xiaomi communications*

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

**S3-241480 KI on key hiearchy**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: OPPO*

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

**S3-241117 New Key Issue on different cryptographic key lengths in dual connectivity scenarios**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: KDDI Corporation, CMCC*

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

**S3-241118 New Key Issue on algorithm negotiation on re-establishing RRC connection**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: KDDI Corporation, CMCC*

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

**S3-241181 New key issue on algorithm negotiation for 256-bit algorithms**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: vivo*

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

**S3-241275 Adaptations to AS and NAS Procedures**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241310 key issues on introducing 256-bit algorithm in 5GS**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-241316 New Key Issue on different cryptographic key lengths in URLLC scenario**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-241359 Add KI on 256 bits algorithms selection in 5G system**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: OPPO*

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

**S3-241390 New key issue on specifying usage of new encryption and integrity protection algorithms in the 5G system**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Ericsson*

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

**S3-241467 New KI on negotiation for NAS and AS related 256-bit algorithms**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Xiaomi communications*

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

**S3-241394 CAT256 - New KI for CAT\_256 on correctly indication**

*Type: pCR For: (not specified)  
 33.701 v0.0.2  
 Source: Apple*

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

**S3-241396 CAT256 - New KI for CAT\_256 on Flexibility to adjust the preference on security algorithms**

*Type: pCR For: (not specified)  
 33.701 v0.0.2  
 Source: Apple*

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

**S3-241171 New Key Issue on different length of cryptographic key in EPS and 5GS interworking**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241288 Introduction of AEAD Algorithm for Air-link Data Protection**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241289 Introduction of AEAD Algorithm and the Order of Data Protection**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241291 Discussion on AEAD Properties**

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

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

**S3-241172 New Solution on different length of cryptographic key in EPS and 5GS interworking**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241362 Add sol on 256 bits algorithm selection in 5G system**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: OPPO*

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

**S3-241391 New solution for specifying usage of new encryption and integrity protection algorithms in the 5G system**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: Ericsson*

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

**S3-241395 CAT256 - New solution for CAT\_256 on correctly indication**

*Type: pCR For: (not specified)  
 33.701 v0.0.2  
 Source: Apple*

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

**S3-241397 CAT256 - New solution for CAT\_256 on Flexibility to adjust the preference on security algorithms**

*Type: pCR For: (not specified)  
 33.701 v0.0.2  
 Source: Apple*

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

**S3-241481 Solution on Key Hierarchy**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: OPPO*

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

**S3-241377 Conclusion on 256 bits algorithms selection in 5G system KI**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: OPPO*

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

**S3-241482 Conclusion on Key Hierarchy KI**

*Type: pCR For: Approval  
 33.700-41 v0.1.0  
 Source: OPPO*

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

**S3-241504 Draft TR 33.700-41**

*Type: draft TR For: (not specified)  
 33.700-41 v0.2.0  
 Source: KDDI Corporation*

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

### 5.6 Study on mitigations against bidding down attacks

**S3-241344 New key issue on guidance for legacy devices**

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

**Decision:** The document was **revised to S3-241516**.

**S3-241398 MiBiDA - New solution for mitigating bidding down attack**

*Type: pCR For: (not specified)  
 33.700-41 v0.0.2  
 Source: Apple*

**Decision:** The document was **revised to S3-241552**.

**S3-241405 Solution to prevent GERAN/UTRAN bidding down attack**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241580**.

**S3-241439 New Solution for Key Issue 1**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-241559**.

**S3-241469 New solution for mitigating GERAN UTRAN bidding down attack**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-241555**.

**S3-241483 Solution to KI#1 on Bidding down mitigation**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241574**.

**S3-241182 New solution on Reuse SoR procedure for bidding down attack mitigation**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: vivo*

**Decision:** The document was **revised to S3-241634**.

**S3-241173 New Solution for KI#1**

*Type: pCR For: Approval  
 33.701 v0.0.1  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-241578**.

**S3-241338 Solution for configured operator indication**

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

**Decision:** The document was **revised to S3-241601**.

**S3-241342 Solution for registration-based provisioning of list of decommissioned systems**

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

**Decision:** The document was **revised to S3-241524**.

**S3-241343 Solution for UPU-based provisioning of list of decommissioned systems**

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

**Decision:** The document was **revised to S3-241533**.

**S3-241513 New draft TR 33.701**

*Type: draft TR For: Approval  
 33.701 v0.2.0  
 Source: Huawei Technologies Sweden AB*

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

**S3-241516 New key issue on guidance for legacy devices**

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

(Replaces S3-241344)

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

**S3-241524 Solution for registration-based provisioning of list of decommissioned systems**

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

(Replaces S3-241342)

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

**S3-241533 Solution for UPU-based provisioning of list of decommissioned systems**

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

(Replaces S3-241343)

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

**S3-241552 MiBiDA - New solution for mitigating bidding down attack**

*Type: pCR For: (not specified)  
 33.700-41 v0.0.2  
 Source: Apple*

(Replaces S3-241398)

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

**S3-241555 New solution for mitigating GERAN UTRAN bidding down attack**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Xiaomi communications*

(Replaces S3-241469)

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

**S3-241559 New Solution for Key Issue 1**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Nokia*

(Replaces S3-241439)

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

**S3-241574 Solution to KI#1 on Bidding down mitigation**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Lenovo*

(Replaces S3-241483)

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

**S3-241578 New Solution for KI#1**

*Type: pCR For: Approval  
 33.701 v0.0.1  
 Source: ZTE Corporation*

(Replaces S3-241173)

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

**S3-241580 Solution to prevent GERAN/UTRAN bidding down attack**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: Samsung*

(Replaces S3-241405)

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

**S3-241601 Solution for configured operator indication**

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

(Replaces S3-241338)

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

**S3-241634 New solution on Reuse SoR procedure for bidding down attack mitigation**

*Type: pCR For: Approval  
 33.701 v0.1.0  
 Source: vivo*

(Replaces S3-241182)

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

### 5.7 Study on security Aspects of 5G Satellite Access Phase 2

**S3-241307 Addressing the editor's note on the security assumption**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon, Interdigital, Ericsson, Nokia, Nokia Shanghai Bell, Intel, CATT, Xiaomi, China Telecom*

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

**S3-241268 Update KI#1 of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241308 Addressing the editor's note in the key issue on store and forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon, Interdigital, Ericsson, Nokia, Nokia Shanghai Bell, Intel, Xiaomi, China Telecom*

**Decision:** The document was **revised to S3-241606**.

**S3-241325 Update to the Store and forward KI**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-241352 pCR to TR33.700-29 Update key issue#1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: CATT*

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

**S3-241162 New Solution for KI#1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-241609**.

**S3-241207 Secure Initial Registration for S&F Satellite Operation**

*Type: pCR For: (not specified)  
 33.700-29 v0.1.0  
 Source: Intel*

**Decision:** The document was **revised to S3-241589**.

**S3-241222 Solution on the authorization mechanism for uplink NAS message in S&F Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-241616**.

**S3-241228 New solution of onboard UDM**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-241530**.

**S3-241295 Solution for Authentication for Store and Forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: OPPO Beijing*

**Decision:** The document was **revised to S3-241607**.

**S3-241463 New solution on attach procedure with eNB on board the satellite in TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-241627**.

**S3-241464 New solution on authorization method during S&F MO transmission in TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-241628**.

**S3-241465 New solution on attach procedure with MME on board the satellite in TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-241629**.

**S3-241485 New solution for Key Issue #1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: THALES*

**Decision:** The document was **revised to S3-241505**.

**S3-241486 New solution based on IOPS for Key Issue #1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: THALES*

**Decision:** The document was **revised to S3-241506**.

**S3-241488 Solution on store and forward Satellite Operation**

*Type: pCR For: (not specified)  
 33.700-29 v0.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241519**.

**S3-241309 solution on the security protection for store and forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-241623**.

**S3-241348 pCR to TR33.700-29 New solution UE Attach or Registration method for S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: CATT*

**Decision:** The document was **revised to S3-241602**.

**S3-241350 pCR to TR33.700-29 New solution UE context management for S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: CATT*

**Decision:** The document was **revised to S3-241603**.

**S3-241406 Solution for optimization of authentication procedure in S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241581**.

**S3-241407 New solution on preventing DoS attacks in S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241582**.

**S3-241433 IOPs based solution for S&F between the UE and satellite**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-241518**.

**S3-241440 New Solution : Primary authentication and NAS security context establishment during store-and-forward operations**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-241563**.

**S3-241408 Key issue on privacy attacks in S&F operatio**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241583**.

**S3-241441 Key issue on security and privacy aspects of emergency reporting during S&F operations**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Nokia*

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

**S3-241259 Key issue on Security for UE-Satellite-UE communication**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241443 New KI : Privacy aspects of UE-satellite-UE communication**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Nokia, Philips International B.V., Lenovo, InterDigital*

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

**S3-241444 New KI - UE-satellite-UE communication security**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Philips International B.V., Nokia, Lenovo, InterDigital*

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

**S3-241489 Solution on UE-satellite-UE communication security**

*Type: pCR For: (not specified)  
 33.700-29 v0.1.0  
 Source: Lenovo*

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

**S3-241183 New solution on mitigation of privacy issues of interim GUTI**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: vivo*

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

**S3-241505 New solution for Key Issue #1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: THALES*

(Replaces S3-241485)

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

**S3-241506 New solution based on IOPS for Key Issue #1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: THALES*

(Replaces S3-241486)

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

**S3-241518 IOPs based solution for S&F between the UE and satellite**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-241433)

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

**S3-241519 Solution on store and forward Satellite Operation**

*Type: pCR For: (not specified)  
 33.700-29 v0.1.0  
 Source: Lenovo*

(Replaces S3-241488)

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

**S3-241530 New solution of onboard UDM**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: China Mobile*

(Replaces S3-241228)

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

**S3-241563 New Solution : Primary authentication and NAS security context establishment during store-and-forward operations**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Nokia*

(Replaces S3-241440)

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

**S3-241567 LS to SA2 and RAN2 on selected satellite architecture for Store and Forward**

*Type: LS out For: Approval  
 to SA2, RAN2, cc SA, RAN3, SA3-LI  
 Source: InterDigital, Inc.*

(Replaces S3-241496)

**Abstract:**

SA3 kindly requests SA2 and RAN2 to either conclude on the appropriate S&F solutions or give an appropriate indication to SA3 regarding solutions or anticipated satellite architecture to focus on.

This LS was approved as draft\_S3-241496-r2 - draft LS to

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

**S3-241575 Draft TR 33.700-29**

*Type: draft TR For: Approval  
 33.700-29 v0.2.0  
 Source: CATT*

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

**S3-241581 Solution for optimization of authentication procedure in S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Samsung*

(Replaces S3-241406)

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

**S3-241582 New solution on preventing DoS attacks in S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Samsung*

(Replaces S3-241407)

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

**S3-241583 Key issue on privacy attacks in S&F operatio**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Samsung*

(Replaces S3-241408)

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

**S3-241589 Secure Initial Registration for S&F Satellite Operation**

*Type: pCR For: (not specified)  
 33.700-29 v0.1.0  
 Source: Intel*

(Replaces S3-241207)

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

**S3-241602 pCR to TR33.700-29 New solution UE Attach or Registration method for S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: CATT*

(Replaces S3-241348)

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

**S3-241603 pCR to TR33.700-29 New solution UE context management for S&F operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: CATT*

(Replaces S3-241350)

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

**S3-241606 Addressing the editor's note in the key issue on store and forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon, Interdigital, Ericsson, Nokia, Nokia Shanghai Bell, Intel, Xiaomi, China Telecom*

(Replaces S3-241308)

**Decision:** The document was **revised to S3-241655**.

**S3-241607 Solution for Authentication for Store and Forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: OPPO Beijing*

(Replaces S3-241295)

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

**S3-241609 New Solution for KI#1**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: ZTE Corporation*

(Replaces S3-241162)

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

**S3-241616 Solution on the authorization mechanism for uplink NAS message in S&F Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-241222)

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

**S3-241623 Solution on the security protection for store and forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-241309)

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

**S3-241627 New solution on attach procedure with eNB on board the satellite in TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-241463)

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

**S3-241628 New solution on authorization method during S&F MO transmission in TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-241464)

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

**S3-241629 New solution on attach procedure with MME on board the satellite in TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-241465)

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

**S3-241655 Addressing the editor's note in the key issue on store and forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.1.0  
 Source: HUAWEI TECH. GmbH*

(Replaces S3-241606)

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

**S3-241496 LS to SA2, RAN2, and RAN3 on selected satellite architecture for Store and Forward**

*Type: LS out For: Approval  
 to SA2,RAN2,RAN3  
 Source: Interdigital*

**Decision:** The document was **revised to S3-241567**.

### 5.8 Study on security for mobility over non-3GPP access to avoid full primary authentication

**S3-241415 Update on KI#1**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

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

**S3-241416 Update on KI#2**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241585**.

**S3-241417 Update on KI#3**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

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

**S3-241418 Update on KI#4**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

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

**S3-241193 Discussion paper on TNAP Mobility solutions**

*Type: discussion For: Information  
 33.702 v..  
 Source: Nokia*

**Decision:** The document was **revised to S3-241509**.

**S3-241145 Discussion Paper on UE non-3GPP access Security re-establishment Considerations**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Lenovo*

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

**S3-241430 Editorial corrections to solution #3**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-241196 solution for N5CW device**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-241510**.

**S3-241146 EAP-5G message alignment with TS 33.501 for Solution 1 and 2**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Lenovo*

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

**S3-241194 update on solution 1**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

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

**S3-241356 New solution for KI#3**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: LG Electronics*

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

**S3-241420 New solution on N5CW device mobility solution with Nonce**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241587**.

**S3-241144 Updates to Solution 4**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241573**.

**S3-241143 Solution for FBSS Adaptations to align with 5G architecture**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241572**.

**S3-241490 Mobility of N5CW devices**

*Type: pCR For: (not specified)  
 33.702 v0.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241522**.

**S3-241357 New solution for KI#2**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: LG Electronics*

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

**S3-241192 solution for AUN3 device**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

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

**S3-241336 Update Taks 2 in assumption clause**

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

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

**S3-241337 Update assumption for NSWOF case by refering to the clasue in 33.501**

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

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

**S3-241419 New solution on AUN3 device mobility solution with Nonce**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-241586**.

**S3-241148 Solution for KI#4 UE authentication while connecting to a new WLAN AP through the same NSWOF**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Charter Communications, Inc*

**Abstract:**

Solution for KI#4 UE authentication while connecting to a new WLAN AP through the same NSWOF

**Decision:** The document was **revised to S3-241653**.

**S3-241197 solution for NSWO**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-241511**.

**S3-241431 Solution to KI#4 using FT**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-241517**.

**S3-241198 solution mapping**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

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

**S3-241429 Clarifications/corrections on linking solutions to key issues**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-241432 Proposed conclusion for key issue #4**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Qualcomm Incorporated*

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

**S3-241195 Clean up**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

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

**S3-241507 TR 33.702**

*Type: draft TR For: Approval  
 33.702 v0.2.0  
 Source: Nokia*

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

**S3-241509 Discussion paper on TNAP Mobility solutions**

*Type: discussion For: Endorsement  
 33.702 v..  
 Source: Nokia*

(Replaces S3-241193)

**Decision:** The document was **endorsed**.

**S3-241510 solution for N5CW device**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia, Lenovo, Charter, Samsung*

(Replaces S3-241196)

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

**S3-241511 solution for NSWO**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

(Replaces S3-241197)

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

**S3-241517 Solution to KI#4 using FT**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-241431)

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

**S3-241522 Mobility of N5CW devices**

*Type: pCR For: (not specified)  
 33.702 v0.1.0  
 Source: Lenovo*

(Replaces S3-241490)

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

**S3-241572 Solution for FBSS Adaptations to align with 5G architecture**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Lenovo*

(Replaces S3-241143)

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

**S3-241573 Updates to Solution 4**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Lenovo*

(Replaces S3-241144)

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

**S3-241585 Update on KI#2**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

(Replaces S3-241416)

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

**S3-241586 New solution on AUN3 device mobility solution with Nonce**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

(Replaces S3-241419)

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

**S3-241587 New solution on N5CW device mobility solution with Nonce**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Samsung*

(Replaces S3-241420)

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

**S3-241653 Solution for KI#4 UE authentication while connecting to a new WLAN AP through the same NSWOF**

*Type: pCR For: Approval  
 33.702 v0.1.0  
 Source: Charter Communications, Inc*

(Replaces S3-241148)

**Abstract:**

Solution for KI#4 UE authentication while connecting to a new WLAN AP through the same NSWOF

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

### 5.9 Study on security Aspect of Ambient IoT Services in 5G

**S3-241476 Skeleton of TR 33.713 AIoT Security**

*Type: draft TR For: Approval  
 33.713 v0.0.0  
 Source: OPPO*

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

**S3-241477 Scope of TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: OPPO, InterDigital*

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

**S3-241301 Discussion on Security Aspects on Ambient IoT Service**

*Type: discussion For: Endorsement  
 33.713 v..  
 Source: Huawei, HiSilicon, China Unicom, China Telecom*

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

**S3-241163 Add some context to security assumptions**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241353 pCR to TR33.713 Clause 4 Security Architecture and Assumptions**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: CATT*

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

**S3-241375 AIoT: Security architecture for Ambient Services in 5G network**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241376 AIoT: Security assumptions for Ambient IoT services in 5G network**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241401 AIoT - Security assumption for Ambient IoT**

*Type: pCR For: (not specified)  
 33.713 v0.0.1  
 Source: Apple*

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

**S3-241459 Security assumption of 5G Ambient IoT services**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-241114 New key issue for security procedure efficiency for AIoT device**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: vivo*

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

**S3-241153 Key Issue on security mechanisms for AIoT system**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Xidian University*

**Abstract:**

This contribution proposes a new key issue on security mechanisms to authenticate and authorize AIoT services. Current security mechanisms are no longer suitable for AIoT devices due to their ultra-low capabilities. New lightweight authentication and auth

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

**S3-241354 pCR to TR33.713 New key issue on security protection of Ambient IoT system**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: CATT*

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

**S3-241478 KI on Device Resource Limitation**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: OPPO*

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

**S3-241479 KI on Credential Management**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: OPPO*

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

**S3-241112 New key issue for AIoT device authentication and authorization**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: vivo*

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

**S3-241151 New KI for TR 33.713 - Security**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes new KI and corresponding security requirements addressing AIoT security.

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

**S3-241164 KI for AIoT device authentication and authorization**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241264 KI Authentication and identity of type A and B device**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Nokia*

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

**S3-241297 KI on Protection of Information Transfer for AIoT Services**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: OPPO Beijing*

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

**S3-241282 New key issue for connectivity authentication in Ambient IoT**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241283 New key issue for application layer authentication in Ambient IoT**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241284 New key issue for Authenticated and authorized access to devices in Ambient IoT via 3GPP core**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241303 key issue on authentication for AIoT devices in network side**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Huawei, HiSilicon, China Unicom, China Telecom*

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

**S3-241399 AIoT - New KI for Ambient IoT on Authentication**

*Type: pCR For: (not specified)  
 33.713 v0.0.1  
 Source: Apple*

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

**S3-241460 Key issue for authorization for 5G Ambient IoT services**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-241630**.

**S3-241304 key issue on protection for the command and data transferring**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Huawei, HiSilicon, China Unicom, China Telecom*

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

**S3-241371 AIoT: New key issue for Traffic protection of AF - NEF interface**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241372 AIoT: New key issue for integrity protection of communication messages sent between AIoT device and 5G network**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241373 AIoT: New key issue for encryption of communication messages sent between AIoT device and 5G network**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241374 AIoT: New key issue for protection of the transfer of security capability of the AIoT device**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241400 AIoT - New KI for Ambient IoT on communication security**

*Type: pCR For: (not specified)  
 33.713 v0.0.1  
 Source: Apple*

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

**S3-241435 New Key Issue on the protection of information during AIoT service communication**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Qualcomm Incorporated*

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

**S3-241113 New key issue on AIoT device ID privacy**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: vivo*

**Decision:** The document was **revised to S3-241636**.

**S3-241150 New KI for TR 33.713 - Privacy**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes new KI and corresponding privacy requirements addressing AIoT privacy.

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

**S3-241165 KI for AIoT device ID privacy**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241285 New key issue for identity privacy in Ambient IoT**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241300 Add KI on privacy protection for Ambient IoT device identifier**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: OPPO*

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

**S3-241358 pCR to TR33.713 New key issue on privacy protection of Ambient IoT system**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: CATT*

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

**S3-241436 New Key Issue on the privacy of information about AIoT device during AIoT service communication**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Qualcomm Incorporated*

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

**S3-241462 Key issue for security and privacy for Ambient IoT information transmission**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-241494 AIoT device identifier privacy**

*Type: pCR For: (not specified)  
 33.713 v0.0.0  
 Source: Lenovo*

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

**S3-241302 key issue on the protection for enable/disable device operation**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Huawei, HiSilicon, Telecom Italia, China Unicom, China Telecom*

**Decision:** The document was **revised to S3-241622**.

**S3-241370 AIoT: New key issue for disablingAIoT devices**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: Ericsson*

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

**S3-241461 Key issue for disable device operation in 5G Ambient IoT services**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-241152 New KI for TR 33.713 - DOS**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes new KI and corresponding security requirements addressing AIoT DOS protection.

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

**S3-241392 Solution for AIoT Lightweight Authentication Based on 5G-AKA**

*Type: pCR For: Approval  
 33.713 v0.0.1  
 Source: OPPO*

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

**S3-241622 Key issue on the protection for enable/disable device operation**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Huawei, HiSilicon, Telecom Italia, China Unicom, China Telecom, Interdigital, Ericsson, Nokia*

(Replaces S3-241302)

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

**S3-241630 Key issue for authorization for 5G Ambient IoT services**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-241460)

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

**S3-241636 New key issue on AIoT device ID privacy**

*Type: pCR For: Approval  
 33.713 v0.0.0  
 Source: vivo, Interdigital, ZTE, Ericsson, OPPO, CATT, Qualcomm, Xiaomi, Lenovo, Apple, Nokia, Nokia Shanghai Bell*

(Replaces S3-241113)

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

**S3-241648 Draft TR 33.713 v0.1.0**

*Type: draft TR For: Approval  
 33.713 v0.1.0  
 Source: OPPO*

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

### 5.10 SID on security aspects of Usage of User Identities

**S3-241121 Draft TR 33.700-32 skeleton**

*Type: draft TR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC*

**Decision:** The document was **revised to S3-241565**.

**S3-241122 TR 33.700-32 scope**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241124 TR 33.700-32 security assumptions**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC*

**Decision:** The document was **revised to S3-241514**.

**S3-241199 Security Assumptions**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Nokia*

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

**S3-241232 Architecture and Security Assumptions in TR 33.700-32**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241329 New assumption on user ID case**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241330 New assumption on for non-3GPP device case**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241447 33.700-32: Architecture and Security Assumptions**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-241327 New definition: user ID and non-3GPP device ID**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-241556**.

**S3-241328 New definition: user authentication and non-3GPP device authentication**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241446 33.700-32: Terms**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-241125 TR 33.700-32 new KI authentication and authorization of human user**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC, Nokia*

**Decision:** The document was **revised to S3-241515**.

**S3-241176 KI on Authentication and Authorization of User Identifiers**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241226 New Key Issue of Authentication and Authorization of User ID**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: China Mobile*

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

**S3-241386 new key issue for user authentication and authorization**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241411 Key issue on User Authentication and Authorization**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Samsung*

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

**S3-241448 33.700-32: Key Issue on User Authentication and Authorization**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-241126 TR 33.700-32 new KI authentication and authorization of non-3GPP device**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241220 Key issue #Y: Security of Authentication and Authorization of one or more non-3GPP devices behind one gateway UE or 5G-RG**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-241566**.

**S3-241233 Key Issue on authentication and authorization of non-3GPP device behind a UE or 5G-RG**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241127 TR 33.700-32 new KI privacy of human user identifier**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC, Nokia*

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

**S3-241177 KI on Privacy Protection of User Identity Profile**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241387 new key issue for user privacy protection**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241450 33.700-32: Key Issue on User Privacy**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-241543**.

**S3-241449 33.700-32: Key Issue on Secure Credential Provisioning**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-241493 draft LS to SA2 on the definition of non-3GPP device identifier**

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

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

**S3-241331 Propose a LS to SA2 about non-3GPP device identifier**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241512 Draft TR 33.700-32 skeleton**

*Type: draft TR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC*

**Abstract:**

from S3-241121-r1

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

**S3-241514 TR 33.700-32 security assumptions**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC, Nokia, China Telecom, Huawei, HiSilicon, Xiaomi*

(Replaces S3-241124)

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

**S3-241515 TR 33.700-32 new KI authentication and authorization of human user**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: InterDigital Belgium. LLC, Nokia, ZTE Corporation, China Mobile, Huawei, HiSilicon, Samsung, Xiaomi*

(Replaces S3-241125)

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

**S3-241543 33.700-32: Key Issue on User Privacy**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Xiaomi, InterDigital, Nokia, ZTE, Huawei, HiSilicon*

(Replaces S3-241450)

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

**S3-241545 Draft TR 33.700-32**

*Type: draft TR For: Approval  
 33.700-32 v0.1.0  
 Source: InterDigital Belgium. LLC*

**Abstract:**

Updated with P-CRs approved at SA3#115-adhoc-e

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

**S3-241556 New definition: user ID and non-3GPP device ID**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon, Xiaomi*

(Replaces S3-241327)

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

**S3-241565 Draft TR 33.700-32 skeleton**

*Type: draft TR For: Approval  
 33.700-32 v0.0.1  
 Source: InterDigital Belgium. LLC*

(Replaces S3-241121)

**Abstract:**

from S3-241121-r1

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

**S3-241566 Key issue #Y: Security of Authentication and Authorization of one or more non-3GPP devices behind one gateway UE or 5G-RG**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon, , InterDigital, China Telecom, Charter*

(Replaces S3-241220)

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

**S3-241614 Key issue #Y: Security of Authentication and Authorization of one or more non-3GPP devices behind one gateway UE or 5G-RG**

*Type: pCR For: Approval  
 33.700-32 v0.0.0  
 Source: Huawei, HiSilicon*

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

### 5.11 R19 SID on UAS security enhancement

**S3-241224 Draft TR 33.759 skeleton (UAS)**

*Type: draft TR For: Approval  
 33.759 v0.0.0  
 Source: Ericsson*

**Abstract:**

Skeleton for the Study on security enhancements of Uncrewed Aerial Systems (UAS) Phase 3

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

**S3-241379 Overview and Security Assumption**

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

**Decision:** The document was **revised to S3-241540**.

**S3-241254 Overview of Uncrewed Aerial Systems (UAS)**

*Type: pCR For: Approval  
 33.759 v0.0.0  
 Source: Ericsson*

**Abstract:**

Overview of TR 33.759 UAS

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

**S3-241269 Scope of TR 33.759**

*Type: pCR For: Approval  
 33.759 v0.0.0  
 Source: Ericsson*

**Abstract:**

Scope for UAS3

**Decision:** The document was **revised to S3-241502**.

**S3-241378 Scope of TR 33.759**

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

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

**S3-241380 new key issue for security enhancements to NEF**

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

**Decision:** The document was **revised to S3-241551**.

**S3-241381 new key issue for NWDAA security**

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

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

**S3-241132 TR 33.759 new KI UAV authorization for multi USS scenario**

*Type: pCR For: Approval  
 33.759 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241502 Scope of TR 33.759**

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

(Replaces S3-241269)

**Abstract:**

Scope for UAS3

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

**S3-241503 TR 33.759 UAS3**

*Type: draft TR For: Approval  
 33.759 v0.1.0  
 Source: Ericsson*

**Abstract:**

TR 33.759 UAS3

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

**S3-241540 Overview and Security Assumption**

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

(Replaces S3-241379)

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

**S3-241551 new key issue for security enhancements to NEF services in support of multiple USSs**

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

(Replaces S3-241380)

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

### 5.12 Study on security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3

**S3-241321 Draft TR Skeleton of TR 33.743 ProSe Phase 3**

*Type: draft TR For: Approval  
 33.743 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241322 TR Scope of TR 33.743 ProSe Phase 3**

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

**Decision:** The document was **revised to S3-241619**.

**S3-241360 pCR to TR 33.743 Scope**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: CATT*

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

**S3-241234 Overview and Security assumptions of TR 33.743**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S3-241558**.

**S3-241326 TR Assumptions of TR 33.743 ProSe Phase 3**

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

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

**S3-241364 pCR to TR33.743 Clause 4 Overview and Security Assumptions**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: CATT*

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

**S3-241128 TR 33.743 Common References**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241323 New KI for security and privacy aspects of multi-hop U2N discovery**

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

**Decision:** The document was **revised to S3-241620**.

**S3-241457 Key issue for Security for Multi-hop UE-to-Network Relay**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-241248 New KI on Security and Privacy for multi-hop UE-to-Network Relays**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241250 Key issue on Security for multi-hop UE-to-Network Relay discovery**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241129 TR 33.743 new KI multihop U2N security**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241130 TR 33.743 new KI multihop U2N authorization**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241131 TR 33.743 new KI multihop U2N discovery security**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: InterDigital Belgium. LLC*

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

**S3-241270 Key issue of multiple hop U2N discovery**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Ericsson*

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

**S3-241273 Key issue of multiple hop U2N communication**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Ericsson*

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

**S3-241167 Key issue on authorization in the multi-hop UE-to-Network Relays scenario**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241169 Key issue on Security for multi-hop UE-to-Network Relays discovery**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241324 New KI for security and privacy aspects of multi-hop UE-to-UE discovery**

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

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

**S3-241458 Key issue for Security for Multi-hop UE-to-UE Relay**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-241631**.

**S3-241253 New KI on Security and Privacy for Layer-3 multi-hop UE-to-UE Relays**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241256 Key issue on Security for multi-hop UE-to-UE relay discovery**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-241166 Key issue on authorization in the layer-3 multi-hop UE-to-UE Relays scenario**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241168 Key issue on Security for layer-3 multi-hop UE-to-UE Relays discovery**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241271 Solution\_Security of multiple hop U2N discovery Model A**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Ericsson*

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

**S3-241272 Solution\_Security of multiple hop U2N discovery Model B**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Ericsson*

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

**S3-241274 Solution\_Security of multiple hop U2N communication**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Ericsson*

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

**S3-241558 Overview and Security assumptions of TR 33.743**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: China Telecom Corporation Ltd.*

(Replaces S3-241234)

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

**S3-241618 Draft TR 33.743**

*Type: draft TR For: Approval  
 33.743 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-241619 TR Scope of TR 33.743 ProSe Phase 3**

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

(Replaces S3-241322)

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

**S3-241620 New KI for security aspects of multi-hop UE-to-Network relay**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Huawei, HiSilicon, Xiaomi, China Telecom, InterDigital, Ericsson, ZTE*

(Replaces S3-241323)

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

**S3-241631 Key issue for Security for Multi-hop UE-to-UE Relay**

*Type: pCR For: Approval  
 33.743 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-241458)

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

### 5.13 SID on security aspects of AIML enhancements

**S3-241287 draft\_TR\_33.784- skeleton for AIML security**

*Type: draft TR For: Approval  
 33.784 v0.0.0  
 Source: china mobile*

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

**S3-241290 Scope of TR 33.784**

*Type: pCR For: Approval  
 33.784 v0.1.0  
 Source: china mobile*

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

**S3-241292 Overview of TR 33.784**

*Type: pCR For: Approval  
 33.784 v0.1.0  
 Source: china mobile*

**Decision:** The document was **revised to S3-241621**.

**S3-241442 Security Assumptions**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: Nokia*

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

**S3-241120 New Key Issue on Authorization of AIML Model Retrieval**

*Type: pCR For: (not specified)  
 33.784 v0.0.0  
 Source: InterDigital Communications*

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

**S3-241178 KI on Security on Supporting Direct AIML based Positioning**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241184 New key issue for Privacy and Authorization on LCS to support Direct AIML based Positioning**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: vivo*

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

**S3-241293 KI on security aspects on enhancements to LCS to support AIML**

*Type: pCR For: Approval  
 33.784 v0.1.0  
 Source: china mobile*

**Decision:** The document was **revised to S3-241639**.

**S3-241351 Add KI on Security for Direct AI/ML based Positioning**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: OPPO*

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

**S3-241468 New KI on AI model authorization**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: Xiaomi communications*

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

**S3-241179 KI on Authorization of Members of The VFL Group**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241185 New key issue on authorization of VFL member selection**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: vivo*

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

**S3-241203 Authorization of members of the VFL group.**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: Nokia*

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

**S3-241221 New KI on authorization mechanism of selection of VFL participants in the VFL group, outside the PLMN**

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

**Decision:** The document was **revised to S3-241625**.

**S3-241294 KI on Authorization of selection of members in VFL groups**

*Type: pCR For: Approval  
 33.784 v0.1.0  
 Source: china mobile*

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

**S3-241311 New KI on authorization of data access for supporting VFL**

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

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

**S3-241355 Add KI on authorization of selection of participant NWDAF and/or AF in VFL**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: OPPO*

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

**S3-241186 New key issue on privacy of VFL data and feature alignment**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: vivo*

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

**S3-241312 New KI on UE ID security and privacy of VFL between VFL members**

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

**Decision:** The document was **revised to S3-241624**.

**S3-241119 New Key Issue on Privacy Protection in VFL Training Data**

*Type: pCR For: (not specified)  
 33.784 v0.0.0  
 Source: InterDigital Communications*

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

**S3-241123 New Key Issue on Secure AIML Data Transfer**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: InterDigital Communications*

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

**S3-241187 New key issue on security of VFL training**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: vivo*

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

**S3-241349 Add KI on security for AI/ML model sharing between NWDAF and AF in VFL**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: OPPO*

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

**S3-241346 Add KI on security for AI/ML model sharing between NWDAF**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: OPPO*

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

**S3-241615 New KI on authorization mechanism of selection of VFL participants in the VFL group, outside the PLMN**

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

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

**S3-241621 Overview of TR 33.784**

*Type: pCR For: Approval  
 33.784 v0.1.0  
 Source: china mobile*

(Replaces S3-241292)

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

**S3-241624 New KI on UE ID security and privacy of VFL between VFL members**

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

(Replaces S3-241312)

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

**S3-241625 New KI on authorization mechanism of selection of VFL participants in the VFL group, outside the PLMN**

*Type: pCR For: Approval  
 33.784 v0.0.0  
 Source: Huawei, HiSilicon, vivo, OPPO, ZTE, China Mobile, Nokia, Ericsson, IDCC*

(Replaces S3-241221)

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

**S3-241639 KI on security aspects on enhancements to LCS to support AIML**

*Type: pCR For: Approval  
 33.784 v0.1.0  
 Source: china mobile*

(Replaces S3-241293)

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

**S3-241651 TR\_33.784 0.1.0-Study on security aspects of Core Network Enhanced Support for AIML**

*Type: draft TR For: Approval  
 33.784 v0.1.0  
 Source: china mobile,vivo*

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

### 5.14 SID\_EdgeComputing

**S3-241216 Overviw of Edge Computing**

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

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

**S3-241217 Skeleton of Edge Computing**

*Type: draft TR For: Approval  
 33.749 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-241225 Scope of TR 33.749**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: China Unicom*

**Decision:** The document was **revised to S3-241564**.

**S3-241368 pCR KI Security aspects of the traffic exchanged between local and central part of the DN**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241218 EEC provided information verification**

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

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

**S3-241367 pCR KI Secure retrieval of 5G system UE Ids and privacy related information**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241388 New key issue on EEC provided IP address verification**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: Ericsson*

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

**S3-241409 Key issue on EEC provided information verification**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: Samsung*

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

**S3-241345 Move Solution#30 from TR33.739 to TR33.749**

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

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

**S3-241389 New key issue on Edge Node Sharing**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: Ericsson*

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

**S3-241215 New KI on authorization of AF outside the operator domain**

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

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

**S3-241564 Scope of TR 33.749**

*Type: pCR For: Approval  
 33.749 v0.0.0  
 Source: China Unicom, Huawei, HiSilicon*

(Replaces S3-241225)

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

**S3-241569 Draft TR 33.749**

*Type: draft TR For: Approval  
 33.749 v0.1.0  
 Source: China Unicom*

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

### 5.15 SID on security aspects for Multi-Access

**S3-241201 Draft TR 33.754 skeleton (Multi-Access)**

*Type: draft TR For: (not specified)  
 33.754 v0.0.0  
 Source: Intel*

**Decision:** The document was **revised to S3-241591**.

**S3-241204 Scope of TR 33.754**

*Type: pCR For: (not specified)  
 33.754 v0.0.0  
 Source: Intel*

**Decision:** The document was **revised to S3-241590**.

**S3-241191 Update to New SID on security aspects for Multi-Access (DualSteer + ATSSS Ph-4)**

*Type: SID revised For: (not specified)  
 Source: NEC Corporation*

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

**S3-241205 Security Assumptions**

*Type: pCR For: (not specified)  
 33.754 v0.0.0  
 Source: Intel, Nokia*

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

**S3-241318 New key issue about security architecture for non-3GPP access**

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

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

**S3-241335 New assumption all wifi AP used in ATSSS-Lite are untrusted**

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

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

**S3-241491 KI on IPsec on user plane and/or control plane of untrusted non-3GPP access**

*Type: pCR For: (not specified)  
 33.754 v0.0.0  
 Source: Lenovo*

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

**S3-241180 KI on Security on simplified ATSSS architecture over non-3GPP access**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241365 pCR KI Authentication of UE in Non-3GPP Access**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: Nokia, Intel*

**Decision:** The document was **revised to S3-241577**.

**S3-241366 pCR KI Confidentiality and integrity protection of the communication between UE and 5GCore in Non-3GPP Access**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: Nokia, Intel*

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

**S3-241317 New key issue for authentication of UE for non-3GPP access**

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

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

**S3-241471 New KI on authentication between UE and UPF**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: Xiaomi communications*

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

**S3-241472 New KI on security method negotiation for UE and UPF**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: Xiaomi communications*

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

**S3-241473 New KI on UPF topology hiding**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: Xiaomi communications*

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

**S3-241492 Solution on IPsec on user plane and/or control plane of untrusted non-3GPP access**

*Type: pCR For: (not specified)  
 33.754 v0.0.0  
 Source: Lenovo*

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

**S3-241577 pCR KI Authentication of UE in Non-3GPP Access**

*Type: pCR For: Approval  
 33.754 v0.0.0  
 Source: Nokia, Intel, Huawei, HiSilicon, Xiaomi*

(Replaces S3-241365)

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

**S3-241590 Scope of TR 33.754**

*Type: pCR For: (not specified)  
 33.754 v0.0.0  
 Source: Intel*

(Replaces S3-241204)

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

**S3-241591 Draft TR 33.754 skeleton (Multi-Access)**

*Type: pCR For: (not specified)  
 33.754 v0.0.0  
 Source: Intel*

(Replaces S3-241201)

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

**S3-241608 Draft TR 33.754 (Multi-Access)**

*Type: draft TR For: (not specified)  
 33.754 v0.1.0  
 Source: Intel*

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

### 5.16 SID on 5GS enhancements for Energy Saving

**S3-241260 Skeleton of TR 33.766 – Energy savings**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia. Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-241541**.

**S3-241261 Scope of TR 33.766**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-241542**.

**S3-241451 33.766: Architecture and Security Assumptions**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-241546**.

**S3-241262 KI Security and privacy aspects of collection energy consumption information**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia. Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-241544**.

**S3-241263 KI Security and privacy aspects of exposure of energy related information**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia. Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-241547**.

**S3-241206 Protection of Energy-Related Information Exposure**

*Type: pCR For: (not specified)  
 33.766 v0.0.0  
 Source: Intel*

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

**S3-241470 New KI on network related energy information exposure authorization**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Xiaomi communications*

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

**S3-241541 Skeleton of TR 33.766 – Energy savings**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia. Nokia Shanghai Bell*

(Replaces S3-241260)

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

**S3-241542 Scope of TR 33.766**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-241261)

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

**S3-241544 KI Security and privacy aspects of collection energy consumption information**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia. Nokia Shanghai Bell*

(Replaces S3-241262)

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

**S3-241546 33.766: Architecture and Security Assumptions**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-241451)

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

**S3-241547 KI Security and privacy aspects of exposure of energy related information**

*Type: pCR For: Approval  
 33.766 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, Intel, Xiaomi*

(Replaces S3-241263)

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

**S3-241654 Draft TR 33.766**

*Type: draft TR For: (not specified)  
 33.766 v0.1.0  
 Source: Ericsson GmbH, Eurolab*

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

### 5.17 SID on security aspects of 5G NR Femto

**S3-241188 Draft Skeleton of TR 33.745 for Femto**

*Type: draft TR For: Approval  
 33.745 v0.0.0  
 Source: ZTE Corporation, China Mobile*

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

**S3-241235 scope of TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

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

**S3-241237 Add terms and abbriviations to TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-241644**.

**S3-241236 Architecture and security assumptions of TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-241643**.

**S3-241332 New assumption on try to reuse HeNB scheme as much as possible.**

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

**Decision:** The document was **revised to S3-241626**.

**S3-241111 pCR on KI for Femto connecting securely with 5G Core**

*Type: pCR For: Approval  
 33.745 v1.0.0  
 Source: Charter Communications, Inc*

**Abstract:**

pCR on KI for Femto connecting securely with 5G Core

**Decision:** The document was **revised to S3-241652**.

**S3-241238 New KI on device authentication to TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

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

**S3-241251 New KI on fake 5G NR Femto**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Telecommunications*

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

**S3-241333 New key issue on 5G Femto authentication and authorization**

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

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

**S3-241241 New KI on protection of backhaul link of TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-241647**.

**S3-241252 New KI on protection of traffic between 5G NR Femto and operator’s security domain**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Telecommunications*

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

**S3-241334 security of communication between 5G Femto and 5GC**

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

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

**S3-241189 KI on Security of 5G NR Femto Ownership**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S3-241576**.

**S3-241249 New KI on authorization of provisioning of subscribers allowed to access 5G NR Femto cells**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Telecommunications*

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

**S3-241110 pCR on KI for 5GS Core network topology hiding from 5G Femto deployments**

*Type: pCR For: Approval  
 33.745 v0.1.0  
 Source: Charter Communications, Inc*

**Abstract:**

pCR on KI for 5GS Core network topology hiding from 5G Femto deployments

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

**S3-241239 New KI on location security of TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-241645**.

**S3-241240 New KI on access contol to TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-241646**.

**S3-241242 New KI on hosting party authentication to TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

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

**S3-241410 Key issue on broadcasting manipulated CAG IDs by the malicious Femto devices**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: Samsung*

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

**S3-241243 Fill out Gap analysis table of TR 33.745**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: China Mobile*

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

**S3-241576 KI on Security of 5G NR Femto Ownership**

*Type: pCR For: Approval  
 33.745 v0.0.0  
 Source: ZTE Corporation, China Mobile, China Telecom*

(Replaces S3-241189)

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

**S3-241588 LS to request clarification on the potential baseline system architecture of 5G NR Femto**

*Type: LS out For: (not specified)  
 to RAN3, SA2  
 Source: China mobile*

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

**S3-241599 Draft TR 33.745**

*Type: draft TR For: Approval  
 33.745 v0.1.0  
 Source: ZTE Corporation*

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

**S3-241626 New assumption on try to reuse HeNB scheme as much as possible.**

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

(Replaces S3-241332)

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

**S3-241643 Architecture and security assumptions of TR 33.745**

*Type: pCR For: (not specified)  
 33.745 v0.0.0  
 Source: China mobile, ZTE Corporation*

(Replaces S3-241236)

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

**S3-241644 Add some terms and abbreviations to TR 33.745**

*Type: pCR For: (not specified)  
 33.745 v0.0.0  
 Source: China mobile, ZTE Corporation*

(Replaces S3-241237)

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

**S3-241645 Add new key issue on location security to TR 33.745**

*Type: pCR For: (not specified)  
 33.745 v0.0.0  
 Source: China mobile*

(Replaces S3-241239)

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

**S3-241646 Add new key issue on UE access control to TR 33.745**

*Type: pCR For: (not specified)  
 33.745 v0.0.0  
 Source: China mobile*

(Replaces S3-241240)

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

**S3-241647 Add new key issue on protection of backhaul link to TR 33.745**

*Type: pCR For: (not specified)  
 33.745 v0.0.0  
 Source: China mobile, ZTE Corporation, China Telecommunications, Huawei, HiSilicon*

(Replaces S3-241241)

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

**S3-241652 pCR on KI for Femto connecting securely with 5G Core**

*Type: pCR For: Approval  
 33.745 v1.0.0  
 Source: Charter Communications, Inc*

(Replaces S3-241111)

**Abstract:**

pCR on KI for Femto connecting securely with 5G Core

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

### 5.18 SID on security aspects of 5G Mobile Metaverse services

**S3-241422 Skeleton for TR 33.721**

*Type: draft TR For: Approval  
 33.721 v0.0.0  
 Source: Samsung*

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

**S3-241413 Scope for TR 33.721**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Samsung, OPPO*

**Decision:** The document was **revised to S3-241584**.

**S3-241452 33.721: Terms**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-241548**.

**S3-241174 Security assumptions for Study on security aspects of 5G Mobile Metaverse services**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241453 33.721: Security Assumptions**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-241549**.

**S3-241175 New Key Issue on privacy protection of user sensitive information**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: ZTE Corporation*

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

**S3-241202 Key issue on Security aspects of exposure of user-sensitive information**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: IIT Delhi, IIT Bhilai, Nokia, Nokia Shanghai Bell, IIT Bombay, IIT Jodhpur, DoT*

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

**S3-241456 33.721: Key Issue on Privacy of User Sensitive Information**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-241554**.

**S3-241200 Key issue on Authentication and Authorization of Digital Identity**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: IIT Delhi, IIT Bhilai, Nokia, Nokia Shanghai Bell, IIT Bombay, IIT Jodhpur, DoT*

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

**S3-241214 new key issue on security of digital asset management**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-241229 New Key issue on digital identity authentication and authorization**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: China Mobile*

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

**S3-241414 Key issue on Digital ID/Avatar ID Authentication and Authorization**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Samsung*

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

**S3-241454 33.721: Key Issue on Authentication and Authorization of Digital Asset**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-241455 33.721: Key Issue on Authorization supporting Mobile Metaverse Services**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-241553**.

**S3-241412 Skeleton for TR 33.721**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Samsung*

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

**S3-241497 LS to request clarification on mobile metaverse services**

*Type: LS out For: (not specified)  
 to SA1, SA6, cc SA2, SA4  
 Source: Samsung*

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

**S3-241548 33.721: Terms**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-241452)

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

**S3-241549 33.721: Security Assumptions**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi, ZTE*

(Replaces S3-241453)

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

**S3-241553 33.721: Key Issue on Authorization supporting Mobile Metaverse Services**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-241455)

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

**S3-241554 33.721: Key Issue on Privacy of User Sensitive Information**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Xiaomi, ZTE, IIT Delhi, IIT Bhilai, Nokia, Nokia Shanghai Bell, IIT Bombay, IIT Jodhpur, DoT*

(Replaces S3-241456)

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

**S3-241584 Scope for TR 33.721**

*Type: pCR For: Approval  
 33.721 v0.0.0  
 Source: Samsung, OPPO*

(Replaces S3-241413)

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

**S3-241632 Draft TR 33.721**

*Type: draft TR For: Approval  
 33.721 v0.1.0  
 Source: Samsung*

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

## 6 New Study/Work item proposals

## 7 CVD and research

## 8 Any Other Business

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-241100 | Agenda | SA WG3 Chair | approved |  |  |
| S3-241101 | Process for SA3#115adHoc-e | SA WG3 Chair | noted |  |  |
| S3-241102 | Detail agenda planning for SA3#115AdHoc-e | SA WG3 Chair | noted |  |  |
| S3-241103 | New use case for security evaluation and monitoring: NFV vulnerabilities | Dell Technologies | noted |  |  |
| S3-241104 | New use case for security evaluation and monitoring: API security risks | Dell Technologies | noted |  |  |
| S3-241105 | New use case for security evaluation and monitoring: Man-in-the-Middle (MitM) attacks | Dell Technologies | noted |  |  |
| S3-241106 | New use case for security evaluation and monitoring: Identity spoofing and impersonation (Aka Rogue Elements) | Dell Technologies | noted |  |  |
| S3-241107 | Living document for CryptoSP: draftCR to TS 33.210, Updates to cryprographic profiles | Ericsson | revised |  | S3-241499 |
| S3-241108 | Living document for CryptoSP: draftCR to TS 33.501, Updates to cryptographic profiles | Ericsson | revised |  | S3-241500 |
| S3-241109 | [33.180] MC migration service authentication and authorization | Motorola Solutions | not pursued |  |  |
| S3-241110 | pCR on KI for 5GS Core network topology hiding from 5G Femto deployments | Charter Communications, Inc | noted |  |  |
| S3-241111 | pCR on KI for Femto connecting securely with 5G Core | Charter Communications, Inc | revised |  | S3-241652 |
| S3-241112 | New key issue for AIoT device authentication and authorization | vivo | noted |  |  |
| S3-241113 | New key issue on AIoT device ID privacy | vivo | revised |  | S3-241636 |
| S3-241114 | New key issue for security procedure efficiency for AIoT device | vivo | noted |  |  |
| S3-241115 | New solution on SUPI privacy issue in PLMN hosting NPN Scenario | IIT Delhi, IIT Bhilai | noted |  |  |
| S3-241116 | New Key Issue on permanent secret key length (K) | KDDI Corporation, Samsung, Xiaomi | noted |  |  |
| S3-241117 | New Key Issue on different cryptographic key lengths in dual connectivity scenarios | KDDI Corporation, CMCC | noted |  |  |
| S3-241118 | New Key Issue on algorithm negotiation on re-establishing RRC connection | KDDI Corporation, CMCC | noted |  |  |
| S3-241119 | New Key Issue on Privacy Protection in VFL Training Data | InterDigital Communications | merged |  | S3-241624 |
| S3-241120 | New Key Issue on Authorization of AIML Model Retrieval | InterDigital Communications | merged |  | S3-241639 |
| S3-241121 | Draft TR 33.700-32 skeleton | InterDigital Belgium. LLC | revised |  | S3-241565 |
| S3-241122 | TR 33.700-32 scope | InterDigital Belgium. LLC | approved |  |  |
| S3-241123 | New Key Issue on Secure AIML Data Transfer | InterDigital Communications | noted |  |  |
| S3-241124 | TR 33.700-32 security assumptions | InterDigital Belgium. LLC | revised |  | S3-241514 |
| S3-241125 | TR 33.700-32 new KI authentication and authorization of human user | InterDigital Belgium. LLC, Nokia | revised |  | S3-241515 |
| S3-241126 | TR 33.700-32 new KI authentication and authorization of non-3GPP device | InterDigital Belgium. LLC | merged |  | S3-241566 |
| S3-241127 | TR 33.700-32 new KI privacy of human user identifier | InterDigital Belgium. LLC, Nokia | merged |  | S3-241543 |
| S3-241128 | TR 33.743 Common References | InterDigital Belgium. LLC | merged |  | S3-241558 |
| S3-241129 | TR 33.743 new KI multihop U2N security | InterDigital Belgium. LLC | merged |  | S3-241620 |
| S3-241130 | TR 33.743 new KI multihop U2N authorization | InterDigital Belgium. LLC | merged |  | S3-241620 |
| S3-241131 | TR 33.743 new KI multihop U2N discovery security | InterDigital Belgium. LLC | merged |  | S3-241620 |
| S3-241132 | TR 33.759 new KI UAV authorization for multi USS scenario | InterDigital Belgium. LLC | merged |  | S3-241551 |
| S3-241133 | New Key Issue on supporting all 5G SBA certificate types | Google Inc., Charter Communications, US National Security Agency, Cisco Systems | approved |  |  |
| S3-241134 | FS\_eZTS Offline Call#3 Minutes | Lenovo, Motorola Mobility | noted |  |  |
| S3-241135 | New KI on dynamic security policy enforcement | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | merged |  | S3-241526 |
| S3-241136 | Updates to KI#1 | Lenovo, Nokia, Nokia Shanghai Bell, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | merged |  | S3-241525 |
| S3-241137 | Updates to Access control decision enhancement usecase | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | approved |  |  |
| S3-241138 | Updates to Massive number of SBI messages | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | revised |  | S3-241568 |
| S3-241139 | Updates to Malformed Message Usecase | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | revised |  | S3-241570 |
| S3-241140 | Resolving EN on dynamic security policy enforcement | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | merged |  | S3-241527 |
| S3-241141 | Resolving EN on data exposure | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | merged |  | S3-241527 |
| S3-241142 | Solution to address KI#3 | Lenovo | revised |  | S3-241571 |
| S3-241143 | Solution for FBSS Adaptations to align with 5G architecture | Lenovo | revised |  | S3-241572 |
| S3-241144 | Updates to Solution 4 | Lenovo | revised |  | S3-241573 |
| S3-241145 | Discussion Paper on UE non-3GPP access Security re-establishment Considerations | Lenovo | noted |  |  |
| S3-241146 | EAP-5G message alignment with TS 33.501 for Solution 1 and 2 | Lenovo | approved |  |  |
| S3-241147 | New Key Issue on supporting all 5G SBA certificate types | Google Inc. | withdrawn |  |  |
| S3-241148 | Solution for KI#4 UE authentication while connecting to a new WLAN AP through the same NSWOF | Charter Communications, Inc | revised |  | S3-241653 |
| S3-241149 | New key issue on certificate revocation | Johns Hopkins University APL, Cisco Systems | revised |  | S3-241650 |
| S3-241150 | New KI for TR 33.713 - Privacy | InterDigital, Inc. | merged |  | S3-241636 |
| S3-241151 | New KI for TR 33.713 - Security | InterDigital, Inc. | noted |  |  |
| S3-241152 | New KI for TR 33.713 - DOS | InterDigital, Inc. | noted |  |  |
| S3-241153 | Key Issue on security mechanisms for AIoT system | Xidian University | noted |  |  |
| S3-241154 | Resolve EN and provide updates to use case 3 | MITRE Corporation, US NSA, Lenovo | revised |  | S3-241537 |
| S3-241155 | Resolve EN and provide updates to use case 4 | MITRE Corporation, US NSA, Lenovo | revised |  | S3-241538 |
| S3-241156 | Abnormal SBI Call Flow | US National Security Agency, MITRE Corporation, OTD\_US | revised |  | S3-241604 |
| S3-241157 | Clean up for TR 33.757 | ZTE Corporation | approved |  |  |
| S3-241158 | New solution for SUPI privacy issue | ZTE Corporation | noted |  |  |
| S3-241159 | Remove the EN for interface between customer’s AFs and 5G core network | ZTE Corporation | revised |  | S3-241610 |
| S3-241160 | Remove the EN for management interface | ZTE Corporation | merged |  | S3-241550 |
| S3-241161 | Add some context for clause 5 | ZTE Corporation | noted |  |  |
| S3-241162 | New Solution for KI#1 | ZTE Corporation | revised |  | S3-241609 |
| S3-241163 | Add some context to security assumptions | ZTE Corporation | noted |  |  |
| S3-241164 | KI for AIoT device authentication and authorization | ZTE Corporation | noted |  |  |
| S3-241165 | KI for AIoT device ID privacy | ZTE Corporation | merged |  | S3-241636 |
| S3-241166 | Key issue on authorization in the layer-3 multi-hop UE-to-UE Relays scenario | ZTE Corporation | merged |  | S3-241631 |
| S3-241167 | Key issue on authorization in the multi-hop UE-to-Network Relays scenario | ZTE Corporation | merged |  | S3-241620 |
| S3-241168 | Key issue on Security for layer-3 multi-hop UE-to-UE Relays discovery | ZTE Corporation | merged |  | S3-241631 |
| S3-241169 | Key issue on Security for multi-hop UE-to-Network Relays discovery | ZTE Corporation | merged |  | S3-241620 |
| S3-241170 | New Key Issue on authentication parameters in AKA procedure | ZTE Corporation | noted |  |  |
| S3-241171 | New Key Issue on different length of cryptographic key in EPS and 5GS interworking | ZTE Corporation | noted |  |  |
| S3-241172 | New Solution on different length of cryptographic key in EPS and 5GS interworking | ZTE Corporation | noted |  |  |
| S3-241173 | New Solution for KI#1 | ZTE Corporation | revised |  | S3-241578 |
| S3-241174 | Security assumptions for Study on security aspects of 5G Mobile Metaverse services | ZTE Corporation | merged |  | S3-241549 |
| S3-241175 | New Key Issue on privacy protection of user sensitive information | ZTE Corporation | merged |  | S3-241554 |
| S3-241176 | KI on Authentication and Authorization of User Identifiers | ZTE Corporation | merged |  | S3-241515 |
| S3-241177 | KI on Privacy Protection of User Identity Profile | ZTE Corporation | merged |  | S3-241543 |
| S3-241178 | KI on Security on Supporting Direct AIML based Positioning | ZTE Corporation | merged |  | S3-241639 |
| S3-241179 | KI on Authorization of Members of The VFL Group | ZTE Corporation | merged |  | S3-241625 |
| S3-241180 | KI on Security on simplified ATSSS architecture over non-3GPP access | ZTE Corporation | merged |  | S3-241590 |
| S3-241181 | New key issue on algorithm negotiation for 256-bit algorithms | vivo | noted |  |  |
| S3-241182 | New solution on Reuse SoR procedure for bidding down attack mitigation | vivo | revised |  | S3-241634 |
| S3-241183 | New solution on mitigation of privacy issues of interim GUTI | vivo | noted |  |  |
| S3-241184 | New key issue for Privacy and Authorization on LCS to support Direct AIML based Positioning | vivo | merged |  | S3-241639 |
| S3-241185 | New key issue on authorization of VFL member selection | vivo | merged |  | S3-241625 |
| S3-241186 | New key issue on privacy of VFL data and feature alignment | vivo | merged |  | S3-241624 |
| S3-241187 | New key issue on security of VFL training | vivo | noted |  |  |
| S3-241188 | Draft Skeleton of TR 33.745 for Femto | ZTE Corporation, China Mobile | approved |  |  |
| S3-241189 | KI on Security of 5G NR Femto Ownership | ZTE Corporation, China Mobile | revised |  | S3-241576 |
| S3-241190 | new kew issue on backward compatibility | CableLabs, Charter Communications | noted |  |  |
| S3-241191 | Update to New SID on security aspects for Multi-Access (DualSteer + ATSSS Ph-4) | NEC Corporation | noted |  |  |
| S3-241192 | solution for AUN3 device | Nokia | noted |  |  |
| S3-241193 | Discussion paper on TNAP Mobility solutions | Nokia | revised |  | S3-241509 |
| S3-241194 | update on solution 1 | Nokia | approved |  |  |
| S3-241195 | Clean up | Nokia | approved |  |  |
| S3-241196 | solution for N5CW device | Nokia | revised |  | S3-241510 |
| S3-241197 | solution for NSWO | Nokia | revised |  | S3-241511 |
| S3-241198 | solution mapping | Nokia | approved |  |  |
| S3-241199 | Security Assumptions | Nokia | merged |  | S3-241514 |
| S3-241200 | Key issue on Authentication and Authorization of Digital Identity | IIT Delhi, IIT Bhilai, Nokia, Nokia Shanghai Bell, IIT Bombay, IIT Jodhpur, DoT | noted |  |  |
| S3-241201 | Draft TR 33.754 skeleton (Multi-Access) | Intel | revised |  | S3-241591 |
| S3-241202 | Key issue on Security aspects of exposure of user-sensitive information | IIT Delhi, IIT Bhilai, Nokia, Nokia Shanghai Bell, IIT Bombay, IIT Jodhpur, DoT | merged |  | S3-241554 |
| S3-241203 | Authorization of members of the VFL group. | Nokia | merged |  | S3-241625 |
| S3-241204 | Scope of TR 33.754 | Intel | revised |  | S3-241590 |
| S3-241205 | Security Assumptions | Intel, Nokia | noted |  |  |
| S3-241206 | Protection of Energy-Related Information Exposure | Intel | merged |  | S3-241547 |
| S3-241207 | Secure Initial Registration for S&F Satellite Operation | Intel | revised |  | S3-241589 |
| S3-241208 | update the scope of TR 33.790 | Nokia, Nokia Shanghai Bell | merged |  | S3-241531 |
| S3-241209 | new key issue on IMS DC capability exposure | Nokia, Nokia Shanghai Bell, CableLabs | merged |  | S3-241528 |
| S3-241210 | new key issue on authenticity of DC application | Nokia, Nokia Shanghai Bell, CableLabs, China Mobile | noted |  |  |
| S3-241211 | new sol for KI#1 third\_party\_id | Nokia, Nokia Shanghai Bell, CableLabs | revised |  | S3-241605 |
| S3-241212 | new sol for KI#2 Security of IMS based Avatar Communication | Nokia, Nokia Shanghai Bell, CableLabs | noted |  |  |
| S3-241213 | new sol for KI on IMS DC capability exposure | Nokia, Nokia Shanghai Bell, CableLabs | noted |  |  |
| S3-241214 | new key issue on security of digital asset management | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241215 | New KI on authorization of AF outside the operator domain | Huawei, HiSilicon | noted |  |  |
| S3-241216 | Overviw of Edge Computing | Huawei, HiSilicon | approved |  |  |
| S3-241217 | Skeleton of Edge Computing | Huawei, HiSilicon | approved |  |  |
| S3-241218 | EEC provided information verification | Huawei, HiSilicon | noted |  |  |
| S3-241219 | A new solution on protecting the Hosted NPN | Huawei, HiSilicon | revised |  | S3-241613 |
| S3-241220 | Key issue #Y: Security of Authentication and Authorization of one or more non-3GPP devices behind one gateway UE or 5G-RG | Huawei, HiSilicon | revised |  | S3-241566 |
| S3-241221 | New KI on authorization mechanism of selection of VFL participants in the VFL group, outside the PLMN | Huawei, HiSilicon | revised |  | S3-241625 |
| S3-241222 | Solution on the authorization mechanism for uplink NAS message in S&F Satellite Operation | Huawei, HiSilicon | revised |  | S3-241616 |
| S3-241223 | Solution on the security protection to avoid UE information disclosure | Huawei, HiSilicon | revised |  | S3-241617 |
| S3-241224 | Draft TR 33.759 skeleton (UAS) | Ericsson | approved |  |  |
| S3-241225 | Scope of TR 33.749 | China Unicom | revised |  | S3-241564 |
| S3-241226 | New Key Issue of Authentication and Authorization of User ID | China Mobile | merged |  | S3-241515 |
| S3-241227 | New Key Issue on security aspects of IMS DC capability exposure | China Mobile | revised |  | S3-241528 |
| S3-241228 | New solution of onboard UDM | China Mobile | revised |  | S3-241530 |
| S3-241229 | New Key issue on digital identity authentication and authorization | China Mobile | noted |  |  |
| S3-241230 | Authentication and Authorization in bulk registration scenarios | China Mobile | approved |  |  |
| S3-241231 | Updated Scope of NGRTC\_Ph2\_Sec | China Mobile | revised |  | S3-241531 |
| S3-241232 | Architecture and Security Assumptions in TR 33.700-32 | China Telecom Corporation Ltd. | merged |  | S3-241514 |
| S3-241233 | Key Issue on authentication and authorization of non-3GPP device behind a UE or 5G-RG | China Telecom Corporation Ltd. | merged |  | S3-241566 |
| S3-241234 | Overview and Security assumptions of TR 33.743 | China Telecom Corporation Ltd. | revised |  | S3-241558 |
| S3-241235 | scope of TR 33.745 | China Mobile | approved |  |  |
| S3-241236 | Architecture and security assumptions of TR 33.745 | China Mobile | revised |  | S3-241643 |
| S3-241237 | Add terms and abbriviations to TR 33.745 | China Mobile | revised |  | S3-241644 |
| S3-241238 | New KI on device authentication to TR 33.745 | China Mobile | merged |  | S3-241652 |
| S3-241239 | New KI on location security of TR 33.745 | China Mobile | revised |  | S3-241645 |
| S3-241240 | New KI on access contol to TR 33.745 | China Mobile | revised |  | S3-241646 |
| S3-241241 | New KI on protection of backhaul link of TR 33.745 | China Mobile | revised |  | S3-241647 |
| S3-241242 | New KI on hosting party authentication to TR 33.745 | China Mobile | approved |  |  |
| S3-241243 | Fill out Gap analysis table of TR 33.745 | China Mobile | noted |  |  |
| S3-241244 | New solution for KI#1 of TR 33.757 | China Mobile | revised |  | S3-241640 |
| S3-241245 | New solution for KI#2 of TR 33.757 | China Mobile | revised |  | S3-241641 |
| S3-241246 | New solution for KI#3 of TR 33.757 | China Mobile | revised |  | S3-241642 |
| S3-241247 | Solve EN of TR 33.757 | China Mobile | noted |  |  |
| S3-241248 | New KI on Security and Privacy for multi-hop UE-to-Network Relays | China Telecom Corporation Ltd. | merged |  | S3-241620 |
| S3-241249 | New KI on authorization of provisioning of subscribers allowed to access 5G NR Femto cells | China Telecommunications | merged |  | S3-241576 |
| S3-241250 | Key issue on Security for multi-hop UE-to-Network Relay discovery | China Telecom Corporation Ltd. | merged |  | S3-241620 |
| S3-241251 | New KI on fake 5G NR Femto | China Telecommunications | merged |  | S3-241652 |
| S3-241252 | New KI on protection of traffic between 5G NR Femto and operator’s security domain | China Telecommunications | merged |  | S3-241647 |
| S3-241253 | New KI on Security and Privacy for Layer-3 multi-hop UE-to-UE Relays | China Telecom Corporation Ltd. | merged |  | S3-241631 |
| S3-241254 | Overview of Uncrewed Aerial Systems (UAS) | Ericsson | merged |  | S3-241540 |
| S3-241255 | New solution to KI#1- CIWF for N4 interface | China Telecommunications | revised |  | S3-241596 |
| S3-241256 | Key issue on Security for multi-hop UE-to-UE relay discovery | China Telecom Corporation Ltd. | merged |  | S3-241631 |
| S3-241257 | Solution proposal for ACME challenge validation | Cisco Systems | revised |  | S3-241534 |
| S3-241258 | New solution to KI#2- CIWF as a gateway for SBA interface | China Telecommunications | revised |  | S3-241597 |
| S3-241259 | Key issue on Security for UE-Satellite-UE communication | China Telecom Corporation Ltd. | noted |  |  |
| S3-241260 | Skeleton of TR 33.766 – Energy savings | Nokia. Nokia Shanghai Bell | revised |  | S3-241541 |
| S3-241261 | Scope of TR 33.766 | Nokia, Nokia Shanghai Bell | revised |  | S3-241542 |
| S3-241262 | KI Security and privacy aspects of collection energy consumption information | Nokia. Nokia Shanghai Bell | revised |  | S3-241544 |
| S3-241263 | KI Security and privacy aspects of exposure of energy related information | Nokia. Nokia Shanghai Bell | revised |  | S3-241547 |
| S3-241264 | KI Authentication and identity of type A and B device | Nokia | noted |  |  |
| S3-241265 | Resolution of EN concerning including OAM attacks in the study | Nokia, Nokia Shanghai Bell | revised |  | S3-241550 |
| S3-241266 | Resolution EN concerning DoS attack | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241267 | New solution to KI#2- CIWF as an delegate for SBA interface | China Telecommunications | revised |  | S3-241598 |
| S3-241268 | Update KI#1 of TR 33.700-29 | China Telecom Corporation Ltd. | merged |  | S3-241583 |
| S3-241269 | Scope of TR 33.759 | Ericsson | revised |  | S3-241502 |
| S3-241270 | Key issue of multiple hop U2N discovery | Ericsson | merged |  | S3-241620 |
| S3-241271 | Solution\_Security of multiple hop U2N discovery Model A | Ericsson | noted |  |  |
| S3-241272 | Solution\_Security of multiple hop U2N discovery Model B | Ericsson | noted |  |  |
| S3-241273 | Key issue of multiple hop U2N communication | Ericsson | merged |  | S3-241620 |
| S3-241274 | Solution\_Security of multiple hop U2N communication | Ericsson | noted |  |  |
| S3-241275 | Adaptations to AS and NAS Procedures | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241276 | Architecture Assumptions | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241277 | Updates to the 3GPP TLS profile | Ericsson | revised |  | S3-241521 |
| S3-241278 | Clarification that 64-bit random IVs are forbidden in ESP | Ericsson | approved |  |  |
| S3-241279 | Implicit Initialization Vector (IV) for Counter-Based Ciphers in ESP | Ericsson | approved |  |  |
| S3-241280 | Correcting terminologies related to DTLS over SCTP | Ericsson | noted |  |  |
| S3-241281 | Clarifying vulnerabilities in DTLS over SCTP | Ericsson | revised |  | S3-241523 |
| S3-241282 | New key issue for connectivity authentication in Ambient IoT | Ericsson | noted |  |  |
| S3-241283 | New key issue for application layer authentication in Ambient IoT | Ericsson | noted |  |  |
| S3-241284 | New key issue for Authenticated and authorized access to devices in Ambient IoT via 3GPP core | Ericsson | noted |  |  |
| S3-241285 | New key issue for identity privacy in Ambient IoT | Ericsson | merged |  | S3-241636 |
| S3-241286 | UE States and Transitions | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241287 | draft\_TR\_33.784- skeleton for AIML security | china mobile | approved |  |  |
| S3-241288 | Introduction of AEAD Algorithm for Air-link Data Protection | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241289 | Introduction of AEAD Algorithm and the Order of Data Protection | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241290 | Scope of TR 33.784 | china mobile | approved |  |  |
| S3-241291 | Discussion on AEAD Properties | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241292 | Overview of TR 33.784 | china mobile | revised |  | S3-241621 |
| S3-241293 | KI on security aspects on enhancements to LCS to support AIML | china mobile | revised |  | S3-241639 |
| S3-241294 | KI on Authorization of selection of members in VFL groups | china mobile | merged |  | S3-241625 |
| S3-241295 | Solution for Authentication for Store and Forward Satellite Operation | OPPO Beijing | revised |  | S3-241607 |
| S3-241296 | Updates to Profiling of IPsec | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-241297 | KI on Protection of Information Transfer for AIoT Services | OPPO Beijing | noted |  |  |
| S3-241298 | Updates to TLS protocol profiles | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-241299 | Updates related to references | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-241300 | Add KI on privacy protection for Ambient IoT device identifier | OPPO | merged |  | S3-241636 |
| S3-241301 | Discussion on Security Aspects on Ambient IoT Service | Huawei, HiSilicon, China Unicom, China Telecom | noted |  |  |
| S3-241302 | key issue on the protection for enable/disable device operation | Huawei, HiSilicon, Telecom Italia, China Unicom, China Telecom | revised |  | S3-241622 |
| S3-241303 | key issue on authentication for AIoT devices in network side | Huawei, HiSilicon, China Unicom, China Telecom | noted |  |  |
| S3-241304 | key issue on protection for the command and data transferring | Huawei, HiSilicon, China Unicom, China Telecom | noted |  |  |
| S3-241305 | update to the Profiling for TLS 1.3 | Huawei, HiSilicon | revised |  | S3-241633 |
| S3-241306 | Update to IKEv2 authentication | Huawei, HiSilicon | merged |  | S3-241508 |
| S3-241307 | Addressing the editor's note on the security assumption | Huawei, HiSilicon, Interdigital, Ericsson, Nokia, Nokia Shanghai Bell, Intel, CATT, Xiaomi, China Telecom | noted |  |  |
| S3-241308 | Addressing the editor's note in the key issue on store and forward Satellite Operation | Huawei, HiSilicon, Interdigital, Ericsson, Nokia, Nokia Shanghai Bell, Intel, Xiaomi, China Telecom | revised |  | S3-241606 |
| S3-241309 | solution on the security protection for store and forward Satellite Operation | Huawei, HiSilicon | revised |  | S3-241623 |
| S3-241310 | key issues on introducing 256-bit algorithm in 5GS | Huawei, HiSilicon | noted |  |  |
| S3-241311 | New KI on authorization of data access for supporting VFL | Huawei, HiSilicon | merged |  | S3-241625 |
| S3-241312 | New KI on UE ID security and privacy of VFL between VFL members | Huawei, HiSilicon | revised |  | S3-241624 |
| S3-241313 | Discussion paper for authorization of AIML model sharing | Huawei, HiSilicon | noted |  |  |
| S3-241314 | Update procedure for secured and authorized AI/ML model sharing | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, vivo, Intel | merged |  | S3-241501 |
| S3-241315 | Assumption for use of ACME in 3GPP network | Huawei, HiSilicon | revised |  | S3-241600 |
| S3-241316 | New Key Issue on different cryptographic key lengths in URLLC scenario | Huawei, HiSilicon | noted |  |  |
| S3-241317 | New key issue for authentication of UE for non-3GPP access | Huawei, HiSilicon | merged |  | S3-241577 |
| S3-241318 | New key issue about security architecture for non-3GPP access | Huawei, HiSilicon | merged |  | S3-241590 |
| S3-241319 | Updating Obsolete RFC 2252 by RFC 4510 | Huawei, HiSilicon | merged |  | S3-241508 |
| S3-241320 | Data related to failed audience claim in the access token | Huawei, HiSilicon | merged |  | S3-241537 |
| S3-241321 | Draft TR Skeleton of TR 33.743 ProSe Phase 3 | Huawei, HiSilicon | approved |  |  |
| S3-241322 | TR Scope of TR 33.743 ProSe Phase 3 | Huawei, HiSilicon | revised |  | S3-241619 |
| S3-241323 | New KI for security and privacy aspects of multi-hop U2N discovery | Huawei, HiSilicon | revised |  | S3-241620 |
| S3-241324 | New KI for security and privacy aspects of multi-hop UE-to-UE discovery | Huawei, HiSilicon | merged |  | S3-241631 |
| S3-241325 | Update to the Store and forward KI | Huawei, HiSilicon | approved |  |  |
| S3-241326 | TR Assumptions of TR 33.743 ProSe Phase 3 | Huawei, HiSilicon | merged |  | S3-241558 |
| S3-241327 | New definition: user ID and non-3GPP device ID | Huawei, HiSilicon | revised |  | S3-241556 |
| S3-241328 | New definition: user authentication and non-3GPP device authentication | Huawei, HiSilicon | merged |  | S3-241556 |
| S3-241329 | New assumption on user ID case | Huawei, HiSilicon | merged |  | S3-241514 |
| S3-241330 | New assumption on for non-3GPP device case | Huawei, HiSilicon | merged |  | S3-241514 |
| S3-241331 | Propose a LS to SA2 about non-3GPP device identifier | Huawei, HiSilicon | withdrawn |  |  |
| S3-241332 | New assumption on try to reuse HeNB scheme as much as possible. | Huawei, HiSilicon | revised |  | S3-241626 |
| S3-241333 | New key issue on 5G Femto authentication and authorization | Huawei, HiSilicon | merged |  | S3-241652 |
| S3-241334 | security of communication between 5G Femto and 5GC | Huawei, HiSilicon | merged |  | S3-241647 |
| S3-241335 | New assumption all wifi AP used in ATSSS-Lite are untrusted | Huawei, HiSilicon | noted |  |  |
| S3-241336 | Update Taks 2 in assumption clause | Huawei, HiSilicon | approved |  |  |
| S3-241337 | Update assumption for NSWOF case by refering to the clasue in 33.501 | Huawei, HiSilicon | approved |  |  |
| S3-241338 | Solution for configured operator indication | Huawei, HiSilicon | revised |  | S3-241601 |
| S3-241339 | Evaluation for the use case on malformed messages | Huawei, HiSilicon | merged |  | S3-241570 |
| S3-241340 | Evaluation for the use case on number of messages | Huawei, HiSilicon | merged |  | S3-241568 |
| S3-241341 | Discussion on the exposure of security related data | Huawei, HiSilicon | noted |  |  |
| S3-241342 | Solution for registration-based provisioning of list of decommissioned systems | Huawei, HiSilicon | revised |  | S3-241524 |
| S3-241343 | Solution for UPU-based provisioning of list of decommissioned systems | Huawei, HiSilicon | revised |  | S3-241533 |
| S3-241344 | New key issue on guidance for legacy devices | Huawei, HiSilicon | revised |  | S3-241516 |
| S3-241345 | Move Solution#30 from TR33.739 to TR33.749 | Huawei, HiSilicon | noted |  |  |
| S3-241346 | Add KI on security for AI/ML model sharing between NWDAF | OPPO | withdrawn |  |  |
| S3-241347 | Updates for deprecation of TLS1.0 and TLS1.1 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-241348 | pCR to TR33.700-29 New solution UE Attach or Registration method for S&F operation | CATT | revised |  | S3-241602 |
| S3-241349 | Add KI on security for AI/ML model sharing between NWDAF and AF in VFL | OPPO | merged |  | S3-241625 |
| S3-241350 | pCR to TR33.700-29 New solution UE context management for S&F operation | CATT | revised |  | S3-241603 |
| S3-241351 | Add KI on Security for Direct AI/ML based Positioning | OPPO | merged |  | S3-241639 |
| S3-241352 | pCR to TR33.700-29 Update key issue#1 | CATT | approved |  |  |
| S3-241353 | pCR to TR33.713 Clause 4 Security Architecture and Assumptions | CATT | noted |  |  |
| S3-241354 | pCR to TR33.713 New key issue on security protection of Ambient IoT system | CATT | noted |  |  |
| S3-241355 | Add KI on authorization of selection of participant NWDAF and/or AF in VFL | OPPO | merged |  | S3-241625 |
| S3-241356 | New solution for KI#3 | LG Electronics | noted |  |  |
| S3-241357 | New solution for KI#2 | LG Electronics | noted |  |  |
| S3-241358 | pCR to TR33.713 New key issue on privacy protection of Ambient IoT system | CATT | merged |  | S3-241636 |
| S3-241359 | Add KI on 256 bits algorithms selection in 5G system | OPPO | noted |  |  |
| S3-241360 | pCR to TR 33.743 Scope | CATT | merged |  | S3-241619 |
| S3-241361 | Discussion of "Update procedure for secured and authorized AI/ML model sharing" | Ericsson | noted |  |  |
| S3-241362 | Add sol on 256 bits algorithm selection in 5G system | OPPO | noted |  |  |
| S3-241363 | Update procedure for secured and authorized AI/ML model sharing | Ericsson | revised |  | S3-241501 |
| S3-241364 | pCR to TR33.743 Clause 4 Overview and Security Assumptions | CATT | merged |  | S3-241558 |
| S3-241365 | pCR KI Authentication of UE in Non-3GPP Access | Nokia, Intel | revised |  | S3-241577 |
| S3-241366 | pCR KI Confidentiality and integrity protection of the communication between UE and 5GCore in Non-3GPP Access | Nokia, Intel | approved |  |  |
| S3-241367 | pCR KI Secure retrieval of 5G system UE Ids and privacy related information | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241368 | pCR KI Security aspects of the traffic exchanged between local and central part of the DN | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-241369 | Authorization of NWDAF MTLF to request FL process on behalf of AnLF | Nokia | revised |  | S3-241562 |
| S3-241370 | AIoT: New key issue for disablingAIoT devices | Ericsson | merged |  | S3-241622 |
| S3-241371 | AIoT: New key issue for Traffic protection of AF - NEF interface | Ericsson | noted |  |  |
| S3-241372 | AIoT: New key issue for integrity protection of communication messages sent between AIoT device and 5G network | Ericsson | noted |  |  |
| S3-241373 | AIoT: New key issue for encryption of communication messages sent between AIoT device and 5G network | Ericsson | noted |  |  |
| S3-241374 | AIoT: New key issue for protection of the transfer of security capability of the AIoT device | Ericsson | noted |  |  |
| S3-241375 | AIoT: Security architecture for Ambient Services in 5G network | Ericsson | noted |  |  |
| S3-241376 | AIoT: Security assumptions for Ambient IoT services in 5G network | Ericsson | noted |  |  |
| S3-241377 | Conclusion on 256 bits algorithms selection in 5G system KI | OPPO | noted |  |  |
| S3-241378 | Scope of TR 33.759 | Huawei, HiSilicon | merged |  | S3-241502 |
| S3-241379 | Overview and Security Assumption | Huawei, HiSilicon | revised |  | S3-241540 |
| S3-241380 | new key issue for security enhancements to NEF | Huawei, HiSilicon | revised |  | S3-241551 |
| S3-241381 | new key issue for NWDAA security | Huawei, HiSilicon | noted |  |  |
| S3-241382 | Addtional limitation in KI#3 on DNS challenge | Huawei, HiSilicon | approved |  | - |
| S3-241383 | new solution using NF FQDN as ACME identifier | Huawei, HiSilicon | approved |  |  |
| S3-241384 | new solution using NF instance ID as ACME identifier | Huawei, HiSilicon | revised |  | S3-241539 |
| S3-241385 | new solution for client-side certificate | Huawei, HiSilicon | noted |  |  |
| S3-241386 | new key issue for user authentication and authorization | Huawei, HiSilicon | merged |  | S3-241515 |
| S3-241387 | new key issue for user privacy protection | Huawei, HiSilicon | merged |  | S3-241543 |
| S3-241388 | New key issue on EEC provided IP address verification | Ericsson | noted |  |  |
| S3-241389 | New key issue on Edge Node Sharing | Ericsson | noted |  |  |
| S3-241390 | New key issue on specifying usage of new encryption and integrity protection algorithms in the 5G system | Ericsson | noted |  |  |
| S3-241391 | New solution for specifying usage of new encryption and integrity protection algorithms in the 5G system | Ericsson | noted |  |  |
| S3-241392 | Solution for AIoT Lightweight Authentication Based on 5G-AKA | OPPO | noted |  |  |
| S3-241393 | LS to CT on IANA reservation on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | withdrawn |  |  |
| S3-241394 | CAT256 - New KI for CAT\_256 on correctly indication | Apple | noted |  |  |
| S3-241395 | CAT256 - New solution for CAT\_256 on correctly indication | Apple | noted |  |  |
| S3-241396 | CAT256 - New KI for CAT\_256 on Flexibility to adjust the preference on security algorithms | Apple | noted |  |  |
| S3-241397 | CAT256 - New solution for CAT\_256 on Flexibility to adjust the preference on security algorithms | Apple | noted |  |  |
| S3-241398 | MiBiDA - New solution for mitigating bidding down attack | Apple | revised |  | S3-241552 |
| S3-241399 | AIoT - New KI for Ambient IoT on Authentication | Apple | noted |  |  |
| S3-241400 | AIoT - New KI for Ambient IoT on communication security | Apple | noted |  |  |
| S3-241401 | AIoT - Security assumption for Ambient IoT | Apple | noted |  |  |
| S3-241402 | Solution on NF Authorization in PLMN hosting NPN Scenario | Samsung | noted |  |  |
| S3-241403 | Solution for DNS Security in PLMN hosting NPN Scenario | Samsung | revised |  | S3-241579 |
| S3-241404 | Solution for SUPI privacy protection in PLMN hosted NPN scenario | Samsung | noted |  |  |
| S3-241405 | Solution to prevent GERAN/UTRAN bidding down attack | Samsung | revised |  | S3-241580 |
| S3-241406 | Solution for optimization of authentication procedure in S&F operation | Samsung | revised |  | S3-241581 |
| S3-241407 | New solution on preventing DoS attacks in S&F operation | Samsung | revised |  | S3-241582 |
| S3-241408 | Key issue on privacy attacks in S&F operatio | Samsung | revised |  | S3-241583 |
| S3-241409 | Key issue on EEC provided information verification | Samsung | noted |  |  |
| S3-241410 | Key issue on broadcasting manipulated CAG IDs by the malicious Femto devices | Samsung | noted |  |  |
| S3-241411 | Key issue on User Authentication and Authorization | Samsung | merged |  | S3-241515 |
| S3-241412 | Skeleton for TR 33.721 | Samsung | withdrawn |  |  |
| S3-241413 | Scope for TR 33.721 | Samsung, OPPO | revised |  | S3-241584 |
| S3-241414 | Key issue on Digital ID/Avatar ID Authentication and Authorization | Samsung | noted |  |  |
| S3-241415 | Update on KI#1 | Samsung | noted |  |  |
| S3-241416 | Update on KI#2 | Samsung | revised |  | S3-241585 |
| S3-241417 | Update on KI#3 | Samsung | noted |  |  |
| S3-241418 | Update on KI#4 | Samsung | noted |  |  |
| S3-241419 | New solution on AUN3 device mobility solution with Nonce | Samsung | revised |  | S3-241586 |
| S3-241420 | New solution on N5CW device mobility solution with Nonce | Samsung | revised |  | S3-241587 |
| S3-241421 | LS on security data management for continuous security monitoring | Nokia | noted |  |  |
| S3-241422 | Skeleton for TR 33.721 | Samsung | approved |  |  |
| S3-241423 | Adding requirements to KI#1 "Data exposure for security evaluation and monitoring" | Ericsson | revised |  | S3-241525 |
| S3-241424 | Adding Key Issue on WT2 "Security mechanism for dynamic policy enforcement" | Ericsson | revised |  | S3-241526 |
| S3-241425 | Update of the security assumptions | Ericsson | revised |  | S3-241527 |
| S3-241426 | Update on malformed messages in the 5G SBA | Ericsson | merged |  | S3-241570 |
| S3-241427 | New solution for the security of 3rd party specific identities | Ericsson | revised |  | S3-241529 |
| S3-241428 | Update of the scope clause | Ericsson | merged |  | S3-241531 |
| S3-241429 | Clarifications/corrections on linking solutions to key issues | Qualcomm Incorporated | approved |  |  |
| S3-241430 | Editorial corrections to solution #3 | Qualcomm Incorporated | approved |  |  |
| S3-241431 | Solution to KI#4 using FT | Qualcomm Incorporated | revised |  | S3-241517 |
| S3-241432 | Proposed conclusion for key issue #4 | Qualcomm Incorporated | noted |  |  |
| S3-241433 | IOPs based solution for S&F between the UE and satellite | Qualcomm Incorporated | revised |  | S3-241518 |
| S3-241434 | Solution for third party identity authorisation and verification | Qualcomm Incorporated | revised |  | S3-241520 |
| S3-241435 | New Key Issue on the protection of information during AIoT service communication | Qualcomm Incorporated | noted |  |  |
| S3-241436 | New Key Issue on the privacy of information about AIoT device during AIoT service communication | Qualcomm Incorporated | merged |  | S3-241636 |
| S3-241437 | New Solution for Key Issue 1 | Nokia | noted |  |  |
| S3-241438 | Clarifications of privacy options for EAP-TLS | Ericsson LM | noted |  |  |
| S3-241439 | New Solution for Key Issue 1 | Nokia | revised |  | S3-241559 |
| S3-241440 | New Solution : Primary authentication and NAS security context establishment during store-and-forward operations | Nokia | revised |  | S3-241563 |
| S3-241441 | Key issue on security and privacy aspects of emergency reporting during S&F operations | Nokia | noted |  |  |
| S3-241442 | Security Assumptions | Nokia | merged |  | S3-241621 |
| S3-241443 | New KI : Privacy aspects of UE-satellite-UE communication | Nokia, Philips International B.V., Lenovo, InterDigital | noted |  |  |
| S3-241444 | New KI - UE-satellite-UE communication security | Philips International B.V., Nokia, Lenovo, InterDigital | noted |  |  |
| S3-241445 | New Key Issue on data exposure relevant for network level attacks | Nokia | noted |  |  |
| S3-241446 | 33.700-32: Terms | Xiaomi Technology | merged |  | S3-241556 |
| S3-241447 | 33.700-32: Architecture and Security Assumptions | Xiaomi Technology | merged |  | S3-241514 |
| S3-241448 | 33.700-32: Key Issue on User Authentication and Authorization | Xiaomi Technology | merged |  | S3-241515 |
| S3-241449 | 33.700-32: Key Issue on Secure Credential Provisioning | Xiaomi Technology | noted |  |  |
| S3-241450 | 33.700-32: Key Issue on User Privacy | Xiaomi Technology | revised |  | S3-241543 |
| S3-241451 | 33.766: Architecture and Security Assumptions | Xiaomi Technology | revised |  | S3-241546 |
| S3-241452 | 33.721: Terms | Xiaomi Technology | revised |  | S3-241548 |
| S3-241453 | 33.721: Security Assumptions | Xiaomi Technology | revised |  | S3-241549 |
| S3-241454 | 33.721: Key Issue on Authentication and Authorization of Digital Asset | Xiaomi Technology | noted |  |  |
| S3-241455 | 33.721: Key Issue on Authorization supporting Mobile Metaverse Services | Xiaomi Technology | revised |  | S3-241553 |
| S3-241456 | 33.721: Key Issue on Privacy of User Sensitive Information | Xiaomi Technology | revised |  | S3-241554 |
| S3-241457 | Key issue for Security for Multi-hop UE-to-Network Relay | Beijing Xiaomi Mobile Software | merged |  | S3-241620 |
| S3-241458 | Key issue for Security for Multi-hop UE-to-UE Relay | Beijing Xiaomi Mobile Software | revised |  | S3-241631 |
| S3-241459 | Security assumption of 5G Ambient IoT services | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-241460 | Key issue for authorization for 5G Ambient IoT services | Beijing Xiaomi Mobile Software | revised |  | S3-241630 |
| S3-241461 | Key issue for disable device operation in 5G Ambient IoT services | Beijing Xiaomi Mobile Software | merged |  | S3-241622 |
| S3-241462 | Key issue for security and privacy for Ambient IoT information transmission | Beijing Xiaomi Mobile Software | merged |  | S3-241636 |
| S3-241463 | New solution on attach procedure with eNB on board the satellite in TR 33.700-29 | Beijing Xiaomi Mobile Software | revised |  | S3-241627 |
| S3-241464 | New solution on authorization method during S&F MO transmission in TR 33.700-29 | Beijing Xiaomi Mobile Software | revised |  | S3-241628 |
| S3-241465 | New solution on attach procedure with MME on board the satellite in TR 33.700-29 | Beijing Xiaomi Mobile Software | revised |  | S3-241629 |
| S3-241466 | New KI on AKA related 256-bit algorithm update | Xiaomi communications | noted |  |  |
| S3-241467 | New KI on negotiation for NAS and AS related 256-bit algorithms | Xiaomi communications | noted |  |  |
| S3-241468 | New KI on AI model authorization | Xiaomi communications | noted |  | - |
| S3-241469 | New solution for mitigating GERAN UTRAN bidding down attack | Xiaomi communications | revised |  | S3-241555 |
| S3-241470 | New KI on network related energy information exposure authorization | Xiaomi communications | merged |  | S3-241547 |
| S3-241471 | New KI on authentication between UE and UPF | Xiaomi communications | merged |  | S3-241577 |
| S3-241472 | New KI on security method negotiation for UE and UPF | Xiaomi communications | noted |  |  |
| S3-241473 | New KI on UPF topology hiding | Xiaomi communications | noted |  |  |
| S3-241474 | KI#2 New solution for service and information authorization | Xiaomi communications | revised |  | S3-241560 |
| S3-241475 | KI#2 New solution for topology hiding | Xiaomi communications | revised |  | S3-241561 |
| S3-241476 | Skeleton of TR 33.713 AIoT Security | OPPO | approved |  |  |
| S3-241477 | Scope of TR 33.713 | OPPO, InterDigital | approved |  |  |
| S3-241478 | KI on Device Resource Limitation | OPPO | noted |  |  |
| S3-241479 | KI on Credential Management | OPPO | noted |  |  |
| S3-241480 | KI on key hiearchy | OPPO | noted |  |  |
| S3-241481 | Solution on Key Hierarchy | OPPO | noted |  |  |
| S3-241482 | Conclusion on Key Hierarchy KI | OPPO | noted |  |  |
| S3-241483 | Solution to KI#1 on Bidding down mitigation | Lenovo | revised |  | S3-241574 |
| S3-241484 | LS on vulnerability due to null ciphering request by network | Google Inc. | withdrawn |  |  |
| S3-241485 | New solution for Key Issue #1 | THALES | revised |  | S3-241505 |
| S3-241486 | New solution based on IOPS for Key Issue #1 | THALES | revised |  | S3-241506 |
| S3-241487 | Discussion on working procedure for WID on 3GPP profiles for cryptographic algorithms and security protocols | NTT DOCOMO INC. | revised |  | S3-241557 |
| S3-241488 | Solution on store and forward Satellite Operation | Lenovo | revised |  | S3-241519 |
| S3-241489 | Solution on UE-satellite-UE communication security | Lenovo | noted |  |  |
| S3-241490 | Mobility of N5CW devices | Lenovo | revised |  | S3-241522 |
| S3-241491 | KI on IPsec on user plane and/or control plane of untrusted non-3GPP access | Lenovo | noted |  |  |
| S3-241492 | Solution on IPsec on user plane and/or control plane of untrusted non-3GPP access | Lenovo | noted |  |  |
| S3-241493 | draft LS to SA2 on the definition of non-3GPP device identifier | Huawei, HiSilicon | noted |  |  |
| S3-241494 | AIoT device identifier privacy | Lenovo | merged |  | S3-241636 |
| S3-241495 | Reply LS on request to change integrity algorithm of 256-NIA3 / 256-NCA3 | ETSI SAGE | noted |  |  |
| S3-241496 | LS to SA2, RAN2, and RAN3 on selected satellite architecture for Store and Forward | Interdigital | revised |  | S3-241567 |
| S3-241497 | LS to request clarification on mobile metaverse services | Samsung | approved |  |  |
| S3-241498 | LS on Security of ML model sharing | vivo Wisdom Technology | revised |  | S3-241635 |
| S3-241499 | Living document for CryptoSP: draftCR to TS 33.210, Updates to cryprographic profiles | Ericsson | approved | S3-241107 |  |
| S3-241500 | Living document for CryptoSP: draftCR to TS 33.501, Updates to cryptographic profiles | Ericsson | approved | S3-241108 |  |
| S3-241501 | Update procedure for secured and authorized AI/ML model sharing | Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, vivo, Intel | agreed | S3-241363 |  |
| S3-241502 | Scope of TR 33.759 | Ericsson, Huawei, HiSilicon | approved | S3-241269 |  |
| S3-241503 | TR 33.759 UAS3 | Ericsson | approved |  |  |
| S3-241504 | Draft TR 33.700-41 | KDDI Corporation | withdrawn |  |  |
| S3-241505 | New solution for Key Issue #1 | THALES | approved | S3-241485 |  |
| S3-241506 | New solution based on IOPS for Key Issue #1 | THALES | approved | S3-241486 |  |
| S3-241507 | TR 33.702 | Nokia | approved |  |  |
| S3-241508 | Living document for CryptoSP: draftCR to TS 33.310, Updates to cryptographic profiles | Ericsson Telecomunicazioni SpA | approved |  |  |
| S3-241509 | Discussion paper on TNAP Mobility solutions | Nokia | endorsed | S3-241193 |  |
| S3-241510 | solution for N5CW device | Nokia, Lenovo, Charter, Samsung | approved | S3-241196 |  |
| S3-241511 | solution for NSWO | Nokia | approved | S3-241197 |  |
| S3-241512 | Draft TR 33.700-32 skeleton | InterDigital Belgium. LLC | withdrawn | - |  |
| S3-241513 | New draft TR 33.701 | Huawei Technologies Sweden AB | approved |  |  |
| S3-241514 | TR 33.700-32 security assumptions | InterDigital Belgium. LLC, Nokia, China Telecom, Huawei, HiSilicon, Xiaomi | approved | S3-241124 |  |
| S3-241515 | TR 33.700-32 new KI authentication and authorization of human user | InterDigital Belgium. LLC, Nokia, ZTE Corporation, China Mobile, Huawei, HiSilicon, Samsung, Xiaomi | approved | S3-241125 |  |
| S3-241516 | New key issue on guidance for legacy devices | Huawei, HiSilicon | approved | S3-241344 |  |
| S3-241517 | Solution to KI#4 using FT | Qualcomm Incorporated | approved | S3-241431 |  |
| S3-241518 | IOPs based solution for S&F between the UE and satellite | Qualcomm Incorporated | approved | S3-241433 |  |
| S3-241519 | Solution on store and forward Satellite Operation | Lenovo | approved | S3-241488 |  |
| S3-241520 | Solution for third party identity authorisation and verification | Qualcomm Incorporated | approved | S3-241434 |  |
| S3-241521 | Updates to the 3GPP TLS profile | Ericsson | approved | S3-241277 |  |
| S3-241522 | Mobility of N5CW devices | Lenovo | approved | S3-241490 |  |
| S3-241523 | Clarifying vulnerabilities in DTLS over SCTP | Ericsson | approved | S3-241281 |  |
| S3-241524 | Solution for registration-based provisioning of list of decommissioned systems | Huawei, HiSilicon | approved | S3-241342 |  |
| S3-241525 | Adding requirements to KI#1 "Data exposure for security evaluation and monitoring" | Ericsson, Lenovo, Nokia, Nokia Shanghai Bell, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | approved | S3-241423 |  |
| S3-241526 | Adding Key Issue on WT2 "Security mechanism for dynamic policy enforcement" | Ericsson, Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | approved | S3-241424 |  |
| S3-241527 | Update of the security assumptions | Ericsson, Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility | approved | S3-241425 |  |
| S3-241528 | New Key Issue on security aspects of IMS DC capability exposure | China Mobile | approved | S3-241227 |  |
| S3-241529 | New solution for the security of 3rd party specific identities | Ericsson | approved | S3-241427 |  |
| S3-241530 | New solution of onboard UDM | China Mobile | approved | S3-241228 |  |
| S3-241531 | Updated Scope of NGRTC\_Ph2\_Sec | China Mobile | approved | S3-241231 |  |
| S3-241532 | Living document of security aspects of MSGin5G service Ph3 | China Mobile | approved |  |  |
| S3-241533 | Solution for UPU-based provisioning of list of decommissioned systems | Huawei, HiSilicon, Lenovo | approved | S3-241343 |  |
| S3-241534 | Solution proposal for ACME challenge validation | Cisco Systems, Google | approved | S3-241257 |  |
| S3-241535 | Additional limitation in KI#3 on DNS challenge | Huawei, HiSilicon | withdrawn | - |  |
| S3-241536 | Draft TR 33.776 | Cisco Systems | approved | S3-240982 |  |
| S3-241537 | Resolve EN and provide updates to use case 3 | MITRE Corporation, US NSA, Lenovo, Huawei, HiSilicon | approved | S3-241154 |  |
| S3-241538 | Resolve EN and provide updates to use case 4 | MITRE Corporation, US NSA, Lenovo | approved | S3-241155 |  |
| S3-241539 | new solution using NF instance ID as ACME identifier | Huawei, HiSilicon | approved | S3-241384 |  |
| S3-241540 | Overview and Security Assumption | Huawei, HiSilicon, Ericsson | approved | S3-241379 |  |
| S3-241541 | Skeleton of TR 33.766 – Energy savings | Nokia. Nokia Shanghai Bell | approved | S3-241260 |  |
| S3-241542 | Scope of TR 33.766 | Nokia, Nokia Shanghai Bell | approved | S3-241261 |  |
| S3-241543 | 33.700-32: Key Issue on User Privacy | Xiaomi, InterDigital, Nokia, ZTE, Huawei, HiSilicon | approved | S3-241450 |  |
| S3-241544 | KI Security and privacy aspects of collection energy consumption information | Nokia. Nokia Shanghai Bell | approved | S3-241262 |  |
| S3-241545 | Draft TR 33.700-32 | InterDigital Belgium. LLC | approved |  |  |
| S3-241546 | 33.766: Architecture and Security Assumptions | Xiaomi Technology | approved | S3-241451 |  |
| S3-241547 | KI Security and privacy aspects of exposure of energy related information | Nokia, Nokia Shanghai Bell, Intel, Xiaomi | approved | S3-241263 |  |
| S3-241548 | 33.721: Terms | Xiaomi Technology | approved | S3-241452 |  |
| S3-241549 | 33.721: Security Assumptions | Xiaomi, ZTE | approved | S3-241453 |  |
| S3-241550 | Resolution of EN concerning including OAM attacks in the study | Nokia, Nokia Shanghai Bell, ZTE | approved | S3-241265 |  |
| S3-241551 | new key issue for security enhancements to NEF services in support of multiple USSs | Huawei, HiSilicon, InterDigital | approved | S3-241380 |  |
| S3-241552 | MiBiDA - New solution for mitigating bidding down attack | Apple | approved | S3-241398 |  |
| S3-241553 | 33.721: Key Issue on Authorization supporting Mobile Metaverse Services | Xiaomi Technology | approved | S3-241455 |  |
| S3-241554 | 33.721: Key Issue on Privacy of User Sensitive Information | Xiaomi, ZTE, IIT Delhi, IIT Bhilai, Nokia, Nokia Shanghai Bell, IIT Bombay, IIT Jodhpur, DoT | approved | S3-241456 |  |
| S3-241555 | New solution for mitigating GERAN UTRAN bidding down attack | Xiaomi communications | approved | S3-241469 |  |
| S3-241556 | New definition: user ID and non-3GPP device ID | Huawei, HiSilicon, Xiaomi | approved | S3-241327 |  |
| S3-241557 | Discussion on working procedure for WID on 3GPP profiles for cryptographic algorithms and security protocols | NTT DOCOMO INC. | endorsed | S3-241487 |  |
| S3-241558 | Overview and Security assumptions of TR 33.743 | China Telecom Corporation Ltd. | approved | S3-241234 |  |
| S3-241559 | New Solution for Key Issue 1 | Nokia | approved | S3-241439 |  |
| S3-241560 | KI#2 New solution for service and information authorization | Xiaomi communications | approved | S3-241474 |  |
| S3-241561 | KI#2 New solution for topology hiding | Xiaomi communications | approved | S3-241475 |  |
| S3-241562 | Authorization of NWDAF MTLF to request FL process on behalf of AnLF | Nokia, Ericsson | agreed | S3-241369 |  |
| S3-241563 | New Solution : Primary authentication and NAS security context establishment during store-and-forward operations | Nokia | approved | S3-241440 |  |
| S3-241564 | Scope of TR 33.749 | China Unicom, Huawei, HiSilicon | approved | S3-241225 |  |
| S3-241565 | Draft TR 33.700-32 skeleton | InterDigital Belgium. LLC | approved | S3-241121 |  |
| S3-241566 | Key issue #Y: Security of Authentication and Authorization of one or more non-3GPP devices behind one gateway UE or 5G-RG | Huawei, HiSilicon, , InterDigital, China Telecom, Charter | approved | S3-241220 |  |
| S3-241567 | LS to SA2 and RAN2 on selected satellite architecture for Store and Forward | InterDigital, Inc. | approved | S3-241496 |  |
| S3-241568 | Updates to Massive number of SBI messages | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility, Huawei, HiSilicon | approved | S3-241138 |  |
| S3-241569 | Draft TR 33.749 | China Unicom | approved |  |  |
| S3-241570 | Updates to Malformed Message Usecase | Lenovo, MITRE Corporation, OTD\_US, Johns Hopkins APL, Motorola Mobility, Ericsson, Huawei, HiSilicon | approved | S3-241139 |  |
| S3-241571 | Solution to address KI#3 | Lenovo | approved | S3-241142 |  |
| S3-241572 | Solution for FBSS Adaptations to align with 5G architecture | Lenovo | approved | S3-241143 |  |
| S3-241573 | Updates to Solution 4 | Lenovo | approved | S3-241144 |  |
| S3-241574 | Solution to KI#1 on Bidding down mitigation | Lenovo | approved | S3-241483 |  |
| S3-241575 | Draft TR 33.700-29 | CATT | approved |  |  |
| S3-241576 | KI on Security of 5G NR Femto Ownership | ZTE Corporation, China Mobile, China Telecom | approved | S3-241189 |  |
| S3-241577 | pCR KI Authentication of UE in Non-3GPP Access | Nokia, Intel, Huawei, HiSilicon, Xiaomi | approved | S3-241365 |  |
| S3-241578 | New Solution for KI#1 | ZTE Corporation | approved | S3-241173 |  |
| S3-241579 | Solution for DNS Security in PLMN hosting NPN Scenario | Samsung | approved | S3-241403 |  |
| S3-241580 | Solution to prevent GERAN/UTRAN bidding down attack | Samsung | approved | S3-241405 |  |
| S3-241581 | Solution for optimization of authentication procedure in S&F operation | Samsung | approved | S3-241406 |  |
| S3-241582 | New solution on preventing DoS attacks in S&F operation | Samsung | approved | S3-241407 |  |
| S3-241583 | Key issue on privacy attacks in S&F operatio | Samsung | approved | S3-241408 |  |
| S3-241584 | Scope for TR 33.721 | Samsung, OPPO | approved | S3-241413 |  |
| S3-241585 | Update on KI#2 | Samsung | approved | S3-241416 |  |
| S3-241586 | New solution on AUN3 device mobility solution with Nonce | Samsung | approved | S3-241419 |  |
| S3-241587 | New solution on N5CW device mobility solution with Nonce | Samsung | approved | S3-241420 |  |
| S3-241588 | LS to request clarification on the potential baseline system architecture of 5G NR Femto | China mobile | approved |  |  |
| S3-241589 | Secure Initial Registration for S&F Satellite Operation | Intel | approved | S3-241207 |  |
| S3-241590 | Scope of TR 33.754 | Intel | approved | S3-241204 |  |
| S3-241591 | Draft TR 33.754 skeleton (Multi-Access) | Intel | approved | S3-241201 |  |
| S3-241592 | New solution to KI#1- CIWF for N4 interface | China Telecommunications | withdrawn | - |  |
| S3-241593 | New solution to KI#2- CIWF as a gateway for SBA interface | China Telecommunications | withdrawn | - |  |
| S3-241594 | New solution to KI#2- CIWF as an delegate for SBA interface | China Telecommunications | withdrawn | - |  |
| S3-241595 | Draft TR 33.757 v0.2.0 | China Telecommunications | approved |  |  |
| S3-241596 | New solution to KI#1- CIWF for N4 interface | China Telecommunications | approved | S3-241255 |  |
| S3-241597 | New solution to KI#2- CIWF as a gateway for SBA interface | China Telecommunications | approved | S3-241258 |  |
| S3-241598 | New solution to KI#2- CIWF as an delegate for SBA interface | China Telecommunications | approved | S3-241267 |  |
| S3-241599 | Draft TR 33.745 | ZTE Corporation | approved |  |  |
| S3-241600 | Assumption for use of ACME in 3GPP network | Huawei, HiSilicon | approved | S3-241315 |  |
| S3-241601 | Solution for configured operator indication | Huawei, HiSilicon | approved | S3-241338 |  |
| S3-241602 | pCR to TR33.700-29 New solution UE Attach or Registration method for S&F operation | CATT | approved | S3-241348 |  |
| S3-241603 | pCR to TR33.700-29 New solution UE context management for S&F operation | CATT | approved | S3-241350 |  |
| S3-241604 | Abnormal SBI Call Flow | US National Security Agency, MITRE Corporation, OTD\_US | approved | S3-241156 |  |
| S3-241605 | new sol for KI#1 third\_party\_id | Nokia, Nokia Shanghai Bell, CableLabs | approved | S3-241211 |  |
| S3-241606 | Addressing the editor's note in the key issue on store and forward Satellite Operation | Huawei, HiSilicon, Interdigital, Ericsson, Nokia, Nokia Shanghai Bell, Intel, Xiaomi, China Telecom | revised | S3-241308 | S3-241655 |
| S3-241607 | Solution for Authentication for Store and Forward Satellite Operation | OPPO Beijing | approved | S3-241295 |  |
| S3-241608 | Draft TR 33.754 (Multi-Access) | Intel | approved |  |  |
| S3-241609 | New Solution for KI#1 | ZTE Corporation | approved | S3-241162 |  |
| S3-241610 | Remove the EN for interface between customer’s AFs and 5G core network | ZTE Corporation | approved | S3-241159 |  |
| S3-241611 | Remove the EN for interface between customer’s AFs and 5G core network | ZTE Corporation | withdrawn | - |  |
| S3-241612 | Remove the EN for interface between customer’s AFs and 5G core network | ZTE Corporation | withdrawn | - |  |
| S3-241613 | A new solution on protecting the Hosted NPN | Huawei, HiSilicon | approved | S3-241219 |  |
| S3-241614 | Key issue #Y: Security of Authentication and Authorization of one or more non-3GPP devices behind one gateway UE or 5G-RG | Huawei, HiSilicon | withdrawn | - |  |
| S3-241615 | New KI on authorization mechanism of selection of VFL participants in the VFL group, outside the PLMN | Huawei, HiSilicon | withdrawn | - |  |
| S3-241616 | Solution on the authorization mechanism for uplink NAS message in S&F Satellite Operation | Huawei, HiSilicon | approved | S3-241222 |  |
| S3-241617 | Solution on the security protection to avoid UE information disclosure | Huawei, HiSilicon | approved | S3-241223 |  |
| S3-241618 | Draft TR 33.743 | Huawei, HiSilicon | approved |  |  |
| S3-241619 | TR Scope of TR 33.743 ProSe Phase 3 | Huawei, HiSilicon, CATT | approved | S3-241322 |  |
| S3-241620 | New KI for security aspects of multi-hop UE-to-Network relay | Huawei, HiSilicon, Xiaomi, China Telecom, InterDigital, Ericsson, ZTE | approved | S3-241323 |  |
| S3-241621 | Overview of TR 33.784 | china mobile | approved | S3-241292 |  |
| S3-241622 | Key issue on the protection for enable/disable device operation | Huawei, HiSilicon, Telecom Italia, China Unicom, China Telecom, Interdigital, Ericsson, Nokia | approved | S3-241302 |  |
| S3-241623 | Solution on the security protection for store and forward Satellite Operation | Huawei, HiSilicon | approved | S3-241309 |  |
| S3-241624 | New KI on UE ID security and privacy of VFL between VFL members | Huawei, HiSilicon, Vivo | approved | S3-241312 |  |
| S3-241625 | New KI on authorization mechanism of selection of VFL participants in the VFL group, outside the PLMN | Huawei, HiSilicon, vivo, OPPO, ZTE, China Mobile, Nokia, Ericsson, IDCC | approved | S3-241221 |  |
| S3-241626 | New assumption on try to reuse HeNB scheme as much as possible. | Huawei, HiSilicon | approved | S3-241332 |  |
| S3-241627 | New solution on attach procedure with eNB on board the satellite in TR 33.700-29 | Beijing Xiaomi Mobile Software | approved | S3-241463 |  |
| S3-241628 | New solution on authorization method during S&F MO transmission in TR 33.700-29 | Beijing Xiaomi Mobile Software | approved | S3-241464 |  |
| S3-241629 | New solution on attach procedure with MME on board the satellite in TR 33.700-29 | Beijing Xiaomi Mobile Software | approved | S3-241465 |  |
| S3-241630 | Key issue for authorization for 5G Ambient IoT services | Beijing Xiaomi Mobile Software | approved | S3-241460 |  |
| S3-241631 | Key issue for Security for Multi-hop UE-to-UE Relay | Beijing Xiaomi Mobile Software | approved | S3-241458 |  |
| S3-241632 | Draft TR 33.721 | Samsung | approved |  |  |
| S3-241633 | update to the Profiling for TLS 1.3 | Huawei, HiSilicon | approved | S3-241305 |  |
| S3-241634 | New solution on Reuse SoR procedure for bidding down attack mitigation | vivo | approved | S3-241182 |  |
| S3-241635 | LS on Security of ML model sharing | vivo Wisdom Technology | revised | S3-241498 | S3-241649 |
| S3-241636 | New key issue on AIoT device ID privacy | vivo, Interdigital, ZTE, Ericsson, OPPO, CATT, Qualcomm, Xiaomi, Lenovo, Apple, Nokia, Nokia Shanghai Bell | approved | S3-241113 |  |
| S3-241637 | Draft TR 33.790 v0.2.0 Study on the security support for the next generation real time communication services phase 2 | Ericsson Limited | approved |  |  |
| S3-241638 | Draft TR 33.794 | Lenovo, Motorola Mobility | approved |  |  |
| S3-241639 | KI on security aspects on enhancements to LCS to support AIML | china mobile | approved | S3-241293 |  |
| S3-241640 | New solution for key issue 1 | China mobile | approved | S3-241244 |  |
| S3-241641 | New solution for key issue 2 | China mobile | approved | S3-241245 |  |
| S3-241642 | New solution for key issue 3 | China mobile | approved | S3-241246 |  |
| S3-241643 | Architecture and security assumptions of TR 33.745 | China mobile, ZTE Corporation | approved | S3-241236 |  |
| S3-241644 | Add some terms and abbreviations to TR 33.745 | China mobile, ZTE Corporation | approved | S3-241237 |  |
| S3-241645 | Add new key issue on location security to TR 33.745 | China mobile | approved | S3-241239 |  |
| S3-241646 | Add new key issue on UE access control to TR 33.745 | China mobile | approved | S3-241240 |  |
| S3-241647 | Add new key issue on protection of backhaul link to TR 33.745 | China mobile, ZTE Corporation, China Telecommunications, Huawei, HiSilicon | approved | S3-241241 |  |
| S3-241648 | Draft TR 33.713 v0.1.0 | OPPO | approved |  |  |
| S3-241649 | LS on Security of ML model sharing | vivo | approved | S3-241498 |  |
| S3-241650 | New key issue on certificate revocation | Johns Hopkins University APL, Cisco Systems, Google Inc. | approved | S3-241149 |  |
| S3-241651 | TR\_33.784 0.1.0-Study on security aspects of Core Network Enhanced Support for AIML | china mobile,vivo | approved |  |  |
| S3-241652 | pCR on KI for Femto connecting securely with 5G Core | Charter Communications, Inc | approved | S3-241111 |  |
| S3-241653 | Solution for KI#4 UE authentication while connecting to a new WLAN AP through the same NSWOF | Charter Communications, Inc | approved | S3-241148 |  |
| S3-241654 | Draft TR 33.766 | Ericsson GmbH, Eurolab | approved |  |  |
| S3-241655 | Addressing the editor's note in the key issue on store and forward Satellite Operation | HUAWEI TECH. GmbH | approved | S3-241606 |  |
| S3-241656 | Chair notes | SA3 WG Chair | available | - | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-241100 | 15/04/2024 13:05:39 | approved |
| S3-241101 | 15/04/2024 13:05:42 | noted |
| S3-241102 | 15/04/2024 13:05:46 | noted |
| S3-241103 | 24/04/2024 14:05:50 | noted |
| S3-241104 | 24/04/2024 14:05:53 | noted |
| S3-241105 | 24/04/2024 14:05:58 | noted |
| S3-241106 | 24/04/2024 14:05:59 | noted |
| S3-241109 | 24/04/2024 13:50:56 | withdrawn |
| S3-241110 | 25/04/2024 12:08:23 | noted |
| S3-241112 | 24/04/2024 14:45:11 | noted |
| S3-241114 | 24/04/2024 14:44:56 | noted |
| S3-241115 | 25/04/2024 12:12:56 | noted |
| S3-241116 | 24/04/2024 14:18:03 | noted |
| S3-241117 | 24/04/2024 14:18:51 | noted |
| S3-241118 | 24/04/2024 14:18:58 | noted |
| S3-241119 | 25/04/2024 12:01:14 | available |
| S3-241120 | 25/04/2024 11:46:20 | available |
| S3-241122 | 25/04/2024 10:48:07 | approved |
| S3-241123 | 25/04/2024 12:01:22 | noted |
| S3-241126 | 25/04/2024 10:51:15 | available |
| S3-241127 | 25/04/2024 10:51:43 | available |
| S3-241128 | 25/04/2024 11:32:14 | available |
| S3-241129 | 25/04/2024 11:33:18 | available |
| S3-241130 | 25/04/2024 11:33:16 | available |
| S3-241131 | 25/04/2024 11:33:13 | available |
| S3-241132 | 25/04/2024 11:07:38 | available |
| S3-241133 | 24/04/2024 14:15:45 | approved |
| S3-241134 | 24/04/2024 14:08:23 | noted |
| S3-241135 | 24/04/2024 14:07:59 | available |
| S3-241136 | 24/04/2024 14:07:22 | available |
| S3-241137 | 24/04/2024 14:06:55 | approved |
| S3-241140 | 24/04/2024 14:03:39 | available |
| S3-241141 | 24/04/2024 14:03:25 | available |
| S3-241145 | 24/04/2024 14:35:56 | noted |
| S3-241146 | 24/04/2024 14:36:16 | approved |
| S3-241150 | 24/04/2024 14:49:44 | available |
| S3-241151 | 24/04/2024 14:45:19 | noted |
| S3-241152 | 25/04/2024 10:47:33 | noted |
| S3-241153 | 24/04/2024 14:44:58 | noted |
| S3-241157 | 24/04/2024 14:15:00 | approved |
| S3-241158 | 24/04/2024 14:14:41 | noted |
| S3-241160 | 24/04/2024 14:11:45 | available |
| S3-241161 | 24/04/2024 14:15:05 | noted |
| S3-241163 | 24/04/2024 14:44:33 | noted |
| S3-241164 | 24/04/2024 14:45:34 | noted |
| S3-241165 | 24/04/2024 14:49:53 | available |
| S3-241166 | 25/04/2024 11:45:03 | available |
| S3-241167 | 25/04/2024 11:33:09 | available |
| S3-241168 | 25/04/2024 11:45:09 | available |
| S3-241169 | 25/04/2024 11:33:08 | available |
| S3-241170 | 24/04/2024 14:18:40 | noted |
| S3-241171 | 24/04/2024 14:21:24 | noted |
| S3-241172 | 24/04/2024 14:21:34 | noted |
| S3-241174 | 25/04/2024 12:09:21 | available |
| S3-241175 | 25/04/2024 12:09:45 | available |
| S3-241176 | 25/04/2024 10:49:42 | available |
| S3-241177 | 25/04/2024 10:51:47 | available |
| S3-241178 | 25/04/2024 11:46:26 | available |
| S3-241179 | 25/04/2024 12:13:41 | available |
| S3-241180 | 25/04/2024 12:03:52 | available |
| S3-241181 | 24/04/2024 14:19:03 | noted |
| S3-241183 | 24/04/2024 14:34:00 | noted |
| S3-241184 | 25/04/2024 11:46:32 | available |
| S3-241185 | 25/04/2024 12:13:45 | available |
| S3-241186 | 25/04/2024 12:00:55 | available |
| S3-241187 | 25/04/2024 12:01:23 | noted |
| S3-241188 | 25/04/2024 12:06:03 | approved |
| S3-241190 | 24/04/2024 14:17:50 | noted |
| S3-241191 | 25/04/2024 12:02:58 | noted |
| S3-241192 | 24/04/2024 14:36:55 | noted |
| S3-241194 | 24/04/2024 14:36:17 | approved |
| S3-241195 | 24/04/2024 14:42:49 | approved |
| S3-241198 | 24/04/2024 14:42:39 | approved |
| S3-241199 | 25/04/2024 10:48:29 | available |
| S3-241200 | 25/04/2024 12:10:01 | noted |
| S3-241202 | 25/04/2024 12:09:51 | available |
| S3-241203 | 25/04/2024 12:13:49 | available |
| S3-241205 | 25/04/2024 12:02:59 | noted |
| S3-241206 | 25/04/2024 12:05:41 | available |
| S3-241208 | 24/04/2024 14:08:44 | available |
| S3-241209 | 24/04/2024 14:09:25 | available |
| S3-241210 | 24/04/2024 14:09:41 | noted |
| S3-241212 | 24/04/2024 14:10:11 | noted |
| S3-241213 | 24/04/2024 14:10:11 | noted |
| S3-241214 | 25/04/2024 12:10:02 | noted |
| S3-241215 | 25/04/2024 12:02:32 | noted |
| S3-241216 | 25/04/2024 12:01:51 | approved |
| S3-241217 | 25/04/2024 12:01:53 | approved |
| S3-241218 | 25/04/2024 12:02:09 | noted |
| S3-241224 | 25/04/2024 10:52:20 | approved |
| S3-241226 | 25/04/2024 10:49:51 | available |
| S3-241229 | 25/04/2024 12:10:06 | noted |
| S3-241230 | 24/04/2024 14:02:37 | approved |
| S3-241232 | 25/04/2024 10:48:40 | available |
| S3-241233 | 25/04/2024 10:51:10 | available |
| S3-241235 | 25/04/2024 12:06:09 | approved |
| S3-241238 | 25/04/2024 12:06:46 | available |
| S3-241242 | 25/04/2024 12:08:36 | approved |
| S3-241243 | 25/04/2024 12:08:47 | noted |
| S3-241247 | 24/04/2024 14:11:54 | noted |
| S3-241248 | 25/04/2024 11:33:22 | available |
| S3-241249 | 25/04/2024 12:08:19 | available |
| S3-241250 | 25/04/2024 11:33:21 | available |
| S3-241251 | 25/04/2024 12:07:00 | available |
| S3-241252 | 25/04/2024 12:07:22 | available |
| S3-241253 | 25/04/2024 11:44:50 | available |
| S3-241254 | 25/04/2024 10:52:39 | available |
| S3-241256 | 25/04/2024 11:44:56 | available |
| S3-241259 | 24/04/2024 14:33:46 | noted |
| S3-241264 | 24/04/2024 14:45:36 | noted |
| S3-241266 | 24/04/2024 14:11:57 | noted |
| S3-241268 | 24/04/2024 14:30:58 | available |
| S3-241270 | 25/04/2024 11:33:12 | available |
| S3-241271 | 25/04/2024 11:45:16 | noted |
| S3-241272 | 25/04/2024 11:45:17 | noted |
| S3-241273 | 25/04/2024 11:33:10 | available |
| S3-241274 | 25/04/2024 11:45:18 | noted |
| S3-241275 | 24/04/2024 14:19:21 | noted |
| S3-241276 | 24/04/2024 14:17:54 | noted |
| S3-241278 | 24/04/2024 13:52:39 | approved |
| S3-241279 | 24/04/2024 13:52:40 | agreed |
| S3-241279 | 24/04/2024 13:52:41 | approved |
| S3-241280 | 24/04/2024 14:00:41 | noted |
| S3-241282 | 24/04/2024 14:45:44 | noted |
| S3-241283 | 24/04/2024 14:45:45 | noted |
| S3-241284 | 24/04/2024 14:45:45 | noted |
| S3-241285 | 24/04/2024 14:49:59 | available |
| S3-241286 | 24/04/2024 14:17:58 | noted |
| S3-241287 | 25/04/2024 11:45:29 | approved |
| S3-241288 | 24/04/2024 14:21:28 | noted |
| S3-241289 | 24/04/2024 14:21:29 | noted |
| S3-241290 | 25/04/2024 11:45:33 | approved |
| S3-241291 | 24/04/2024 14:21:33 | noted |
| S3-241294 | 25/04/2024 12:12:08 | available |
| S3-241296 | 24/04/2024 13:52:48 | available |
| S3-241297 | 24/04/2024 14:45:39 | noted |
| S3-241298 | 24/04/2024 13:51:58 | available |
| S3-241299 | 24/04/2024 14:01:41 | available |
| S3-241300 | 24/04/2024 14:50:06 | available |
| S3-241301 | 24/04/2024 14:43:51 | noted |
| S3-241303 | 24/04/2024 14:47:10 | noted |
| S3-241304 | 24/04/2024 14:49:02 | noted |
| S3-241306 | 24/04/2024 14:00:26 | noted |
| S3-241307 | 24/04/2024 14:30:30 | noted |
| S3-241310 | 24/04/2024 14:19:22 | noted |
| S3-241311 | 25/04/2024 12:12:11 | available |
| S3-241313 | 15/04/2024 13:11:05 | noted |
| S3-241314 | 24/04/2024 13:47:40 | available |
| S3-241316 | 24/04/2024 14:19:38 | noted |
| S3-241317 | 25/04/2024 12:04:14 | available |
| S3-241318 | 25/04/2024 12:03:22 | available |
| S3-241319 | 24/04/2024 14:00:31 | noted |
| S3-241320 | 24/04/2024 14:06:48 | available |
| S3-241321 | 25/04/2024 11:07:58 | approved |
| S3-241324 | 25/04/2024 11:44:30 | available |
| S3-241325 | 24/04/2024 14:31:26 | approved |
| S3-241326 | 25/04/2024 11:32:12 | available |
| S3-241328 | 25/04/2024 10:49:20 | available |
| S3-241329 | 25/04/2024 10:48:47 | available |
| S3-241330 | 25/04/2024 10:48:55 | available |
| S3-241333 | 25/04/2024 12:07:06 | available |
| S3-241334 | 25/04/2024 12:07:28 | available |
| S3-241335 | 25/04/2024 12:03:27 | noted |
| S3-241336 | 24/04/2024 14:37:02 | approved |
| S3-241337 | 24/04/2024 14:37:02 | approved |
| S3-241339 | 24/04/2024 14:04:37 | available |
| S3-241340 | 24/04/2024 14:05:24 | available |
| S3-241341 | 24/04/2024 14:02:47 | noted |
| S3-241345 | 25/04/2024 12:02:23 | noted |
| S3-241347 | 24/04/2024 13:52:28 | available |
| S3-241349 | 25/04/2024 12:12:29 | available |
| S3-241351 | 25/04/2024 11:46:47 | available |
| S3-241352 | 24/04/2024 14:31:27 | approved |
| S3-241353 | 24/04/2024 14:44:36 | noted |
| S3-241354 | 24/04/2024 14:45:01 | noted |
| S3-241355 | 25/04/2024 12:12:17 | available |
| S3-241356 | 24/04/2024 14:36:24 | noted |
| S3-241357 | 24/04/2024 14:36:54 | noted |
| S3-241358 | 24/04/2024 14:50:13 | available |
| S3-241359 | 24/04/2024 14:19:39 | noted |
| S3-241360 | 25/04/2024 11:08:13 | available |
| S3-241361 | 15/04/2024 13:11:35 | noted |
| S3-241362 | 24/04/2024 14:21:44 | noted |
| S3-241364 | 25/04/2024 11:32:13 | available |
| S3-241366 | 25/04/2024 12:04:04 | approved |
| S3-241367 | 25/04/2024 12:02:15 | noted |
| S3-241368 | 25/04/2024 12:02:02 | noted |
| S3-241370 | 25/04/2024 10:47:23 | available |
| S3-241371 | 24/04/2024 14:49:05 | noted |
| S3-241372 | 24/04/2024 14:49:06 | noted |
| S3-241373 | 24/04/2024 14:49:09 | noted |
| S3-241374 | 24/04/2024 14:49:11 | noted |
| S3-241375 | 24/04/2024 14:44:39 | noted |
| S3-241376 | 24/04/2024 14:44:42 | noted |
| S3-241377 | 24/04/2024 14:22:03 | noted |
| S3-241378 | 25/04/2024 11:07:15 | available |
| S3-241381 | 25/04/2024 11:07:30 | noted |
| S3-241382 | 24/04/2024 14:16:25 | approved |
| S3-241383 | 24/04/2024 14:16:31 | approved |
| S3-241385 | 24/04/2024 14:17:00 | noted |
| S3-241386 | 25/04/2024 10:50:02 | available |
| S3-241387 | 25/04/2024 10:51:53 | available |
| S3-241388 | 25/04/2024 12:02:17 | noted |
| S3-241389 | 25/04/2024 12:02:23 | noted |
| S3-241390 | 24/04/2024 14:21:11 | noted |
| S3-241391 | 24/04/2024 14:21:45 | noted |
| S3-241392 | 25/04/2024 10:47:37 | noted |
| S3-241393 | 09/04/2024 12:36:22 | withdrawn |
| S3-241394 | 24/04/2024 14:21:19 | noted |
| S3-241395 | 24/04/2024 14:21:56 | noted |
| S3-241396 | 24/04/2024 14:21:19 | noted |
| S3-241397 | 24/04/2024 14:21:57 | noted |
| S3-241399 | 24/04/2024 14:47:12 | noted |
| S3-241400 | 24/04/2024 14:49:15 | noted |
| S3-241401 | 24/04/2024 14:44:45 | noted |
| S3-241402 | 24/04/2024 14:14:12 | noted |
| S3-241404 | 24/04/2024 14:14:51 | noted |
| S3-241409 | 25/04/2024 12:02:18 | noted |
| S3-241410 | 25/04/2024 12:08:40 | noted |
| S3-241411 | 25/04/2024 10:50:09 | available |
| S3-241414 | 25/04/2024 12:10:07 | noted |
| S3-241415 | 24/04/2024 14:35:33 | noted |
| S3-241417 | 24/04/2024 14:35:43 | noted |
| S3-241418 | 24/04/2024 14:35:43 | noted |
| S3-241421 | 24/04/2024 14:08:21 | noted |
| S3-241422 | 25/04/2024 12:08:58 | approved |
| S3-241426 | 24/04/2024 14:04:43 | available |
| S3-241428 | 24/04/2024 14:09:03 | available |
| S3-241429 | 24/04/2024 14:42:42 | approved |
| S3-241430 | 24/04/2024 14:36:00 | approved |
| S3-241432 | 24/04/2024 14:42:46 | noted |
| S3-241435 | 24/04/2024 14:49:16 | noted |
| S3-241436 | 24/04/2024 14:50:20 | available |
| S3-241437 | 24/04/2024 14:08:17 | noted |
| S3-241438 | 24/04/2024 14:01:56 | noted |
| S3-241441 | 24/04/2024 14:33:45 | noted |
| S3-241442 | 25/04/2024 11:45:55 | available |
| S3-241443 | 24/04/2024 14:33:50 | noted |
| S3-241444 | 24/04/2024 14:33:50 | noted |
| S3-241445 | 24/04/2024 14:08:13 | noted |
| S3-241446 | 25/04/2024 10:49:26 | available |
| S3-241447 | 25/04/2024 10:48:58 | available |
| S3-241448 | 25/04/2024 10:50:15 | available |
| S3-241449 | 25/04/2024 10:52:03 | noted |
| S3-241454 | 25/04/2024 12:10:11 | noted |
| S3-241457 | 25/04/2024 11:33:24 | available |
| S3-241459 | 24/04/2024 14:44:47 | noted |
| S3-241461 | 25/04/2024 10:47:28 | available |
| S3-241462 | 24/04/2024 14:50:26 | available |
| S3-241466 | 24/04/2024 14:18:41 | noted |
| S3-241467 | 24/04/2024 14:21:11 | noted |
| S3-241468 | 25/04/2024 11:46:53 | available |
| S3-241468 | 25/04/2024 11:47:18 | noted |
| S3-241470 | 25/04/2024 12:05:51 | available |
| S3-241471 | 25/04/2024 12:04:37 | available |
| S3-241472 | 25/04/2024 12:04:38 | noted |
| S3-241473 | 25/04/2024 12:04:42 | noted |
| S3-241476 | 24/04/2024 14:43:42 | approved |
| S3-241477 | 24/04/2024 14:43:47 | approved |
| S3-241478 | 24/04/2024 14:45:05 | noted |
| S3-241479 | 24/04/2024 14:45:06 | noted |
| S3-241480 | 24/04/2024 14:18:50 | noted |
| S3-241481 | 24/04/2024 14:21:58 | noted |
| S3-241482 | 24/04/2024 14:22:04 | noted |
| S3-241484 | 09/04/2024 12:36:28 | withdrawn |
| S3-241489 | 24/04/2024 14:33:54 | noted |
| S3-241491 | 25/04/2024 12:03:34 | noted |
| S3-241492 | 25/04/2024 12:04:45 | noted |
| S3-241493 | 25/04/2024 10:52:05 | noted |
| S3-241494 | 24/04/2024 14:50:32 | available |
| S3-241495 | 15/04/2024 13:11:07 | noted |
| S3-241497 | 25/04/2024 12:10:44 | approved |
| S3-241499 | 25/04/2024 12:24:12 | approved |
| S3-241500 | 25/04/2024 12:24:13 | approved |
| S3-241501 | 24/04/2024 13:48:09 | agreed |
| S3-241502 | 25/04/2024 11:06:57 | approved |
| S3-241503 | 25/04/2024 12:24:27 | approved |
| S3-241505 | 24/04/2024 14:32:23 | approved |
| S3-241506 | 24/04/2024 14:32:24 | approved |
| S3-241507 | 25/04/2024 12:24:24 | approved |
| S3-241508 | 25/04/2024 12:24:14 | approved |
| S3-241509 | 24/04/2024 14:35:48 | available |
| S3-241510 | 24/04/2024 14:36:06 | approved |
| S3-241511 | 24/04/2024 14:37:32 | approved |
| S3-241513 | 25/04/2024 12:24:22 | approved |
| S3-241514 | 25/04/2024 10:48:18 | approved |
| S3-241515 | 25/04/2024 10:49:32 | approved |
| S3-241516 | 24/04/2024 14:22:22 | approved |
| S3-241517 | 24/04/2024 14:37:33 | approved |
| S3-241518 | 24/04/2024 14:33:15 | approved |
| S3-241519 | 24/04/2024 14:32:30 | approved |
| S3-241520 | 24/04/2024 14:10:04 | approved |
| S3-241521 | 24/04/2024 13:51:45 | approved |
| S3-241522 | 24/04/2024 14:36:48 | approved |
| S3-241523 | 24/04/2024 14:01:31 | approved |
| S3-241524 | 24/04/2024 14:24:52 | approved |
| S3-241525 | 24/04/2024 14:07:09 | approved |
| S3-241526 | 24/04/2024 14:08:01 | approved |
| S3-241527 | 24/04/2024 14:03:15 | approved |
| S3-241528 | 24/04/2024 14:09:16 | approved |
| S3-241529 | 24/04/2024 14:09:57 | approved |
| S3-241530 | 24/04/2024 14:31:51 | approved |
| S3-241531 | 24/04/2024 14:08:47 | approved |
| S3-241532 | 25/04/2024 12:24:16 | approved |
| S3-241533 | 24/04/2024 14:24:55 | approved |
| S3-241534 | 24/04/2024 14:16:48 | approved |
| S3-241536 | 25/04/2024 12:24:21 | approved |
| S3-241537 | 24/04/2024 14:05:34 | approved |
| S3-241538 | 24/04/2024 14:05:43 | approved |
| S3-241539 | 24/04/2024 14:16:37 | approved |
| S3-241540 | 25/04/2024 10:52:29 | approved |
| S3-241541 | 25/04/2024 12:04:57 | approved |
| S3-241542 | 25/04/2024 12:05:00 | approved |
| S3-241543 | 25/04/2024 10:51:30 | approved |
| S3-241544 | 25/04/2024 12:05:04 | approved |
| S3-241545 | 25/04/2024 12:24:26 | approved |
| S3-241546 | 25/04/2024 12:24:32 | approved |
| S3-241547 | 25/04/2024 12:05:12 | approved |
| S3-241548 | 25/04/2024 12:09:10 | approved |
| S3-241549 | 25/04/2024 12:09:24 | approved |
| S3-241550 | 24/04/2024 14:11:48 | approved |
| S3-241551 | 25/04/2024 11:07:21 | approved |
| S3-241552 | 24/04/2024 14:22:31 | approved |
| S3-241553 | 25/04/2024 12:10:17 | approved |
| S3-241554 | 25/04/2024 12:09:54 | approved |
| S3-241555 | 24/04/2024 14:24:19 | approved |
| S3-241556 | 25/04/2024 10:49:05 | approved |
| S3-241557 | 24/04/2024 14:02:07 | available |
| S3-241558 | 25/04/2024 11:31:46 | approved |
| S3-241559 | 24/04/2024 14:24:15 | approved |
| S3-241560 | 24/04/2024 14:14:05 | approved |
| S3-241561 | 24/04/2024 14:14:26 | approved |
| S3-241562 | 24/04/2024 13:50:41 | agreed |
| S3-241563 | 24/04/2024 14:33:19 | approved |
| S3-241564 | 25/04/2024 12:01:56 | approved |
| S3-241565 | 25/04/2024 10:47:56 | approved |
| S3-241566 | 25/04/2024 10:50:30 | approved |
| S3-241567 | 24/04/2024 14:34:05 | approved |
| S3-241568 | 24/04/2024 14:05:10 | approved |
| S3-241569 | 25/04/2024 12:24:30 | approved |
| S3-241570 | 24/04/2024 14:04:09 | approved |
| S3-241571 | 24/04/2024 14:14:31 | approved |
| S3-241572 | 24/04/2024 14:36:40 | approved |
| S3-241573 | 24/04/2024 14:36:35 | approved |
| S3-241574 | 24/04/2024 14:24:24 | approved |
| S3-241575 | 25/04/2024 12:24:23 | approved |
| S3-241576 | 25/04/2024 12:07:33 | approved |
| S3-241577 | 25/04/2024 12:03:58 | approved |
| S3-241578 | 24/04/2024 14:24:36 | approved |
| S3-241579 | 24/04/2024 14:14:17 | approved |
| S3-241580 | 24/04/2024 14:22:37 | approved |
| S3-241581 | 24/04/2024 14:32:57 | approved |
| S3-241582 | 24/04/2024 14:33:02 | approved |
| S3-241583 | 24/04/2024 14:30:47 | approved |
| S3-241584 | 25/04/2024 12:09:03 | approved |
| S3-241585 | 24/04/2024 14:35:38 | approved |
| S3-241586 | 24/04/2024 14:37:18 | approved |
| S3-241587 | 24/04/2024 14:36:30 | approved |
| S3-241588 | 25/04/2024 12:24:33 | approved |
| S3-241589 | 24/04/2024 14:31:39 | approved |
| S3-241590 | 25/04/2024 12:02:51 | approved |
| S3-241591 | 25/04/2024 12:02:44 | approved |
| S3-241595 | 25/04/2024 12:24:20 | approved |
| S3-241596 | 24/04/2024 14:12:33 | approved |
| S3-241597 | 24/04/2024 14:13:29 | approved |
| S3-241598 | 24/04/2024 14:13:49 | approved |
| S3-241599 | 25/04/2024 12:24:34 | approved |
| S3-241600 | 24/04/2024 14:15:34 | approved |
| S3-241601 | 24/04/2024 14:24:46 | approved |
| S3-241602 | 24/04/2024 14:32:48 | approved |
| S3-241603 | 24/04/2024 14:32:51 | approved |
| S3-241604 | 24/04/2024 14:06:09 | approved |
| S3-241605 | 24/04/2024 14:09:50 | approved |
| S3-241607 | 24/04/2024 14:31:57 | approved |
| S3-241608 | 25/04/2024 12:24:31 | approved |
| S3-241609 | 24/04/2024 14:31:33 | approved |
| S3-241610 | 24/04/2024 14:10:47 | approved |
| S3-241613 | 24/04/2024 14:12:52 | approved |
| S3-241614 | 25/04/2024 10:50:41 | withdrawn |
| S3-241615 | 25/04/2024 11:47:40 | approved |
| S3-241615 | 25/04/2024 12:11:37 | withdrawn |
| S3-241616 | 24/04/2024 14:31:48 | approved |
| S3-241617 | 24/04/2024 14:12:57 | approved |
| S3-241618 | 25/04/2024 12:24:28 | approved |
| S3-241619 | 25/04/2024 11:08:03 | approved |
| S3-241620 | 25/04/2024 11:32:21 | approved |
| S3-241621 | 25/04/2024 11:45:39 | approved |
| S3-241622 | 24/04/2024 14:50:40 | approved |
| S3-241623 | 24/04/2024 14:32:41 | approved |
| S3-241624 | 25/04/2024 12:00:58 | approved |
| S3-241625 | 25/04/2024 12:11:43 | approved |
| S3-241626 | 25/04/2024 12:06:30 | approved |
| S3-241627 | 24/04/2024 14:32:07 | approved |
| S3-241628 | 24/04/2024 14:32:11 | approved |
| S3-241629 | 24/04/2024 14:32:15 | approved |
| S3-241630 | 24/04/2024 14:48:04 | approved |
| S3-241631 | 25/04/2024 11:44:37 | approved |
| S3-241632 | 25/04/2024 12:24:35 | approved |
| S3-241633 | 24/04/2024 13:52:14 | approved |
| S3-241634 | 24/04/2024 14:24:31 | approved |
| S3-241635 | 24/04/2024 13:48:50 | withdrawn |
| S3-241636 | 24/04/2024 14:49:27 | approved |
| S3-241637 | 25/04/2024 12:24:18 | approved |
| S3-241638 | 25/04/2024 12:24:17 | approved |
| S3-241639 | 25/04/2024 11:46:11 | approved |
| S3-241640 | 24/04/2024 14:12:04 | approved |
| S3-241641 | 24/04/2024 14:13:10 | approved |
| S3-241642 | 24/04/2024 14:14:46 | approved |
| S3-241643 | 25/04/2024 12:06:25 | approved |
| S3-241644 | 25/04/2024 12:06:13 | approved |
| S3-241645 | 25/04/2024 12:08:27 | approved |
| S3-241646 | 25/04/2024 12:08:30 | approved |
| S3-241647 | 25/04/2024 12:07:12 | approved |
| S3-241648 | 25/04/2024 12:24:25 | approved |
| S3-241649 | 24/04/2024 13:48:58 | approved |
| S3-241650 | 24/04/2024 14:15:50 | approved |
| S3-241651 | 25/04/2024 12:24:29 | approved |
| S3-241652 | 25/04/2024 12:06:35 | approved |
| S3-241653 | 24/04/2024 14:37:24 | approved |
| S3-241654 | 25/04/2024 12:24:46 | approved |
| S3-241655 | 24/04/2024 14:31:12 | approved |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-241109 | [33.180] MC migration service authentication and authorization | Motorola Solutions | 33.180 | 0211 | - | Rel-18 | F | MCXSec3 | not pursued |
| S3-241296 | Updates to Profiling of IPsec | Nokia, Nokia Shanghai Bell | 33.210 | 0081 | - | Rel-19 | B | CryptoSP | not pursued |
| S3-241298 | Updates to TLS protocol profiles | Nokia, Nokia Shanghai Bell | 33.210 | 0082 | - | Rel-18 | B | CryptoSP | not pursued |
| S3-241299 | Updates related to references | Nokia, Nokia Shanghai Bell | 33.501 | 1973 | - | Rel-18 | B | CryptoSP | not pursued |
| S3-241314 | Update procedure for secured and authorized AI/ML model sharing | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, vivo, Intel | 33.501 | 1974 | - | Rel-18 | F | eNA\_Ph3\_SEC | merged |
| S3-241347 | Updates for deprecation of TLS1.0 and TLS1.1 | Nokia, Nokia Shanghai Bell | 33.501 | 1975 | - | Rel-18 | B | CryptoSP | not pursued |
| S3-241363 | Update procedure for secured and authorized AI/ML model sharing | Ericsson | 33.501 | 1976 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-241501 | Update procedure for secured and authorized AI/ML model sharing | Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, vivo, Intel | 33.501 | 1976 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-241369 | Authorization of NWDAF MTLF to request FL process on behalf of AnLF | Nokia | 33.501 | 1977 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-241562 | Authorization of NWDAF MTLF to request FL process on behalf of AnLF | Nokia, Ericsson | 33.501 | 1977 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-241495 |  | Reply LS on request to change integrity algorithm of 256-NIA3 / 256-NCA3 | ETSI SAGE | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-241497 | LS to request clarification on mobile metaverse services | SA1, SA6 | SA2, SA4 |  |
| S3-241567 | LS to SA2 and RAN2 on selected satellite architecture for Store and Forward | SA2, RAN2 | SA, RAN3, SA3-LI |  |
| S3-241588 | LS to request clarification on the potential baseline system architecture of 5G NR Femto | RAN3, SA2 | - |  |
| S3-241649 | LS on Security of ML model sharing | SA2 | SA |  |

## Annex D: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-241121 | 33.700-32 | 0.0.0 | Draft TR 33.700-32 skeleton |
| S3-241188 | 33.745 | 0.0.0 | Draft Skeleton of TR 33.745 for Femto |
| S3-241201 | 33.754 | 0.0.0 | Draft TR 33.754 skeleton (Multi-Access) |
| S3-241217 | 33.749 | 0.0.0 | Skeleton of Edge Computing |
| S3-241224 | 33.759 | 0.0.0 | Draft TR 33.759 skeleton (UAS) |
| S3-241287 | 33.784 | 0.0.0 | draft\_TR\_33.784- skeleton for AIML security |
| S3-241321 | 33.743 | 0.0.0 | Draft TR Skeleton of TR 33.743 ProSe Phase 3 |
| S3-241422 | 33.721 | 0.0.0 | Skeleton for TR 33.721 |
| S3-241476 | 33.713 | 0.0.0 | Skeleton of TR 33.713 AIoT Security |
| S3-241503 | 33.759 | 0.1.0 | TR 33.759 UAS3 |
| S3-241504 | 33.700-41 | 0.2.0 | Draft TR 33.700-41 |
| S3-241507 | 33.702 | 0.2.0 | TR 33.702 |
| S3-241512 | 33.700-32 | 0.0.0 | Draft TR 33.700-32 skeleton |
| S3-241513 | 33.701 | 0.2.0 | New draft TR 33.701 |
| S3-241536 | 33.776 | 0.2.0 | Draft TR 33.776 |
| S3-241545 | 33.700-32 | 0.1.0 | Draft TR 33.700-32 |
| S3-241565 | 33.700-32 | 0.0.1 | Draft TR 33.700-32 skeleton |
| S3-241569 | 33.749 | 0.1.0 | Draft TR 33.749 |
| S3-241575 | 33.700-29 | 0.2.0 | Draft TR 33.700-29 |
| S3-241595 | 33.757 | 0.2.0 | Draft TR 33.757 v0.2.0 |
| S3-241599 | 33.745 | 0.1.0 | Draft TR 33.745 |
| S3-241608 | 33.754 | 0.1.0 | Draft TR 33.754 (Multi-Access) |
| S3-241618 | 33.743 | 0.1.0 | Draft TR 33.743 |
| S3-241632 | 33.721 | 0.1.0 | Draft TR 33.721 |
| S3-241637 | 33.790 | 0.2.0 | Draft TR 33.790 v0.2.0 Study on the security support for the next generation real time communication services phase 2 |
| S3-241638 | 33.794 | 0.2.0 | Draft TR 33.794 |
| S3-241648 | 33.713 | 0.1.0 | Draft TR 33.713 v0.1.0 |
| S3-241651 | 33.784 | 0.1.0 | TR\_33.784 0.1.0-Study on security aspects of Core Network Enhanced Support for AIML |
| S3-241654 | 33.766 | 0.1.0 | Draft TR 33.766 |

## Annex E: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Dr. | Abhishek | Rohit | AT&T | AT&T Labs, Inc |
| Mrs. | Aswathy Subramaniam | Aswathy S | CEWiT | CEWiT |
| Ms. | Balasubramanian | Anusuya | CEWiT | CEWiT |
| Mr. | Bhatt | Rakshesh P. | Nokia Japan | Nokia Belgium |
| Mr. | Bilca | Michael | OTD\_US | OTD\_US |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Chelle | Venkata Rama Raju | Department of Telecom | Department of Telecom |
| Mr. | Chen | Jingran | OPPO | Guangdong OPPO Mobile Telecom. |
| Mr. | Cheng | Sihan | vivo Mobile Communication Co., | Tomorrow's Creation Labs |
| Miss | chong | vivian | VIVO TECH GmbH | vivo Mobile Communication (H) |
| Mr. | Doubrava | Michael | BSI (DE) | BSI (DE) |
| Dr. | Escott | Adrian | Qualcomm Germany | Qualcomm Incorporated |
| Miss | Flygare | Helena | Ericsson LM | Ericsson LM |
| Mrs. | Gan | Lu | OPPO | OPPO Beijing |
| Ms. | Gong | Ruby | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Guo | Boren | OPPO | Hangzhou Mengyuxiang |
| Mr. | Hoffpauir | Dusty | Charter Communications, Inc | Charter Communications, Inc |
| Mr. | Hu | Li | vivo Mobile Communication Co., | vivo Wisdom Technology |
| Miss | Jerichow | Anja | Nokia Germany | Nokia Germany |
| Miss | ke | xiaowan | vivo Mobile Communication Co., | vivo Mobile Com. (Chongqing) |
| Dr. | Keesmaat | Iko | TNO | TNO |
| Mr. | Khare | Saurabh | Nokia Germany | Nokia Solutions & Networks (I) |
| Dr. | Kiani | Abbas | Futurewei | Futurewei |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics Polska |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Korea |
| Mr. | Kim | Warren | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Kumar | Virendra | Qualcomm Technologies Int | Qualcomm Technologies Int |
| Ms. | Lam | Maria | Verizon Switzerland AG | Verizon Switzerland AG |
| Mr. | Lee | Jay | Verizon UK Ltd | Verizon UK Ltd |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies (Korea) |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Dr. | Liang | Henry (Haoran) | Xiaomi Communications | Xiaomi Electronic Software |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech | Beijing Xiaomi Electronics |
| Miss | Liu | Peilin | ZTE Corporation | ZTE Corporation |
| Mr. | Lorenz | Ben | BSI (DE) | BSI (DE) |
| Mr. | Lu | Fei | Guangdong OPPO Mobile Telecom. | Chengdu OPPO Telecommunication |
| Ms. | Lu | Wei | Xiaomi Technology | Beijing Xiaomi Software Tech |
| Mr. | Lyu | Huazhang | vivo Mobile Communication Co., | iQoo |
| Mr. | MAO | Yuxin | Beijing Xiaomi Mobile Software | Xiaomi Technology |
| Dr. | Nakano | Yuto | KDDI Corporation | KDDI Corporation |
| Ing. | Sánchez | Antonio | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Scribano | Gino | Johns Hopkins University APL | Johns Hopkins University APL |
| Miss | shang | zhengyi | Beijing Xiaomi Mobile Software | Xiaomi Digital Technology |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Software | Xiaomi EV Technology |
| Ms. | Sun | Xiaowen | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Dr. | Taksande | Pradnya | IIT Bombay | IIT Bombay |
| Ms. | Tang | Tingfang | Beijing Xiaomi Mobile Software | Xiaomi Communications |
| Dr. | Targali | Yousif | Verizon UK Ltd | Verizon Sweden |
| Mr. | Wang | Wen | vivo Mobile Communication Co., | GUANGDONG GENIUS TECHNOLOGY CO |
| Dr. | Wang | Yaxin | OPPO | Shenzhen Heytap |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson France S.A.S |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Wu | Xiaobo | vivo Mobile Communication Co., | vivo Mobile Communication Co., |
| Miss | Wu | Yizhuang | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECH. GmbH |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., | Nanjing vivo Software Tech. |
| Miss | Xiong | Lihui | OPPO | Hangzhou Douku |
| Mrs. | Xu | Dan | Ericsson LM | Ericsson LM |
| Dr. | Zhang | Amy | vivo Mobile Communication Co., | vivo Software Technology |
| Mr. | Zhu | Zengbao | BUPT | BUPT |

## Annex F: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#116-(option 1) | 2024-05-13 | 2024-05-17 | Korea | KR | S3-116 |
| SA3#94-LI | 2024-07-09 | 2024-07-12 | EU | EU | S3-94-LI |
| SA3#117 | 2024-08-26 | 2024-08-30 | Maastricht | NL | S3-117 |
| SA3#118 | 2024-10-07 | 2024-10-11 | India | IN | S3-118 |
| SA3#95-LI | 2024-10-29 | 2024-11-01 | US | US | S3-95-LI |
| SA3#119 | 2024-11-11 | 2024-11-15 | Orlando | US | S3-119 |