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

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

**Online, Electronic meeting, 13/01/2025 to 16/01/2025**

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## 1 Agenda and Meeting Objectives

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

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

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

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

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

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

**S3-250001 Agenda**

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

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

**S3-250002 Process for SA3#119AdHoc-e**

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

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

**S3-250003 Detailed agenda planning**

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

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

## 2 Meeting Reports

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

### 2.2 SA3-LI Report

## 3 Reports and Liaisons from other Groups

### 3.1 Reports and Liaisons related to topics in agenda

**S3-250004 LS on security aspects of Ambient IoT**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2411049*

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

**S3-250005 LS on RAN2 outcome of Ambient IoT study**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2411263*

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

**S3-250006 Reply to LS on Further Clarification for Ambient IoT Security**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-244920*

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

**S3-250007 LS on A-IoT Conclusions in SA WG2**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2413035*

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

**S3-250008 Reply LS on terminology alignment between SA6 and SA3**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-245644*

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

**S3-250009 Reply LS on clarifications on consent management**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-241934*

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

**S3-250043 Reply LS on security aspects of Ambient IoT**

*Type: LS out For: Approval  
 to SA2, cc RAN2, RAN1  
 Source: OPPO*

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

**S3-250071 LS reply to LS on security aspects of Ambient IoT**

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

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

**S3-250130 LS on User Consent aspects for Energy Saving**

*Type: LS out For: Approval  
 to SA WG2  
 Source: Ericsson*

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

**S3-250237 SA3 leadership meeting notes**

*Type: report For: Information  
 Source: MCC*

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

### 3.2 Follow up topics from LSs

## 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

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

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### 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

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

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

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

### 4.10 R19 SCAS WID

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

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

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

### 4.14 WID on WID on Security for MonStra

## 5 Rel-19 Studies

### 5.1 Study on enablers for Zero Trust Security

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

**S3-250089 Updates to solution#6**

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

**Decision:** The document was **revised to S3-250184**.

**S3-250090 Evaluation updates for solution#6**

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

**Decision:** The document was **revised to S3-250185**.

**S3-250091 Conclusion for Key issue#2**

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

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

**S3-250131 Solution#5 update for alignment with SA2 and addressing EN**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S3-250207**.

**S3-250132 Conclusion to KI#2 of NG\_RTC**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S3-250192**.

**S3-250133 Conclusion to KI#3 of NG\_RTC**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S3-250210**.

**S3-250154 Conclusion for KI2 IMS based Avatar Communication**

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

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

**S3-250155 Update KI#1: Third party specific user identities to include NEF-AF interface security**

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

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

**S3-250156 LS on IMS support for AF authorization**

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

**Decision:** The document was **revised to S3-250170**.

**S3-250157 Conclusion for KI3 IMS DC capability exposure**

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

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

**S3-250170 LS on IMS support for AF authorization and IMS avatar communication**

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

(Replaces S3-250156)

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

**S3-250184 Updates to solution#6**

*Type: pCR For: Approval  
 33.790 v1.0.0  
 Source: Samsung*

(Replaces S3-250089)

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

**S3-250185 Evaluation updates for solution#6**

*Type: pCR For: Approval  
 33.790 v1.0.0  
 Source: Samsung*

(Replaces S3-250090)

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

**S3-250192 Conclusion to KI#2 of NG\_RTC**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S3-250132)

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

**S3-250205 Draft TR 33.790 v1.1.0 Study on the security support for the next generation real time communication services phase 2**

*Type: draft TR For: Approval  
 33.790 v1.1.0  
 Source: Ericsson Hungary Ltd*

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

**S3-250207 Solution#5 update for alignment with SA2 and addressing EN**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S3-250131)

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

**S3-250210 Conclusion to KI#3 of NG\_RTC**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S3-250133)

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

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

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

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

### 5.6 Study on mitigations against bidding down attacks

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

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

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

**S3-250010 New KI: Reader Authorization for 5G Ambient IoT Services**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new Key Issue #X: Reader Authorization for 5G Ambient IoT Services, to address and study potential attacks from adversarial AIoT Readers that initiate unauthorized inventory or command procedures.

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

**S3-250011 KI#3, Conclusions**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Sony*

**Abstract:**

Propose conclusions for Key Issue 3

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

**S3-250012 KI#5, Conclusions**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Sony*

**Abstract:**

Propose conclusions for Key Issue 5

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

**S3-250013 Conclusion to key issue#1**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-250195**.

**S3-250014 Conclusion to key issue#3**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Lenovo*

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

**S3-250015 Conclusion to key issue#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Lenovo*

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

**S3-250016 Conclusion to key issue#5**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Lenovo*

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

**S3-250024 Resolving ENs in sol#6 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250025 Evaluation for solution 6**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-250208**.

**S3-250026 Update the KI#2 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250027 Update the KI#3 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250028 Update the scope in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-250209**.

**S3-250029 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250030 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250031 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250032 Conclusion for KI#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250033 Conclusion for KI#5**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

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

**S3-250041 Conclusion on AIOT KI#3**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-250224**.

**S3-250042 Update AIOT KI#3**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

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

**S3-250044 addressing the editor's note in solution#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-250203**.

**S3-250045 Discussion paper on the conclusion on key issue#5**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-250046 conclusion on key issue#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon, OPPO, China Unicom*

**Decision:** The document was **revised to S3-250206**.

**S3-250047 Generic conclusion on AIoT**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-250204**.

**S3-250054 Adding evaluation for solution#3**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: Apple*

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

**S3-250055 Update solution#8**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: Apple*

**Decision:** The document was **revised to S3-250175**.

**S3-250056 Update solution#28**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: Apple*

**Decision:** The document was **revised to S3-250176**.

**S3-250057 Update solution#31**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: Apple*

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

**S3-250058 Conclusion on KI#5 AIoT Authentication**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-250226**.

**S3-250059 pCR to TR33.713 Update solution#9 to remove EN**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

**Decision:** The document was **revised to S3-250231**.

**S3-250060 pCR to TR33.713 New solution AIoT command message security protection procedure**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

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

**S3-250061 pCR to TR33.713 Generic conclusion**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

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

**S3-250066 Proposal for a conclusion**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Nokia*

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

**S3-250067 Proposal for a resolution to an EN concerning counter synchronisation**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Nokia*

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

**S3-250068 Proposal for a resolution of an EN concerning alignment with RAN specifications**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Nokia*

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

**S3-250069 Proposal for a resolution to an EN concerning device constrains**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-250174**.

**S3-250070 Proposal for a resolution to an EN concerning key identification**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Nokia*

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

**S3-250072 pCR to TR33.713 Conclusion#3**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

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

**S3-250073 pCR to TR33.713 Conclusion#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

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

**S3-250074 pCR to TR33.713 Conclusion#5**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

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

**S3-250075 Conclusion for KI#2 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO, Xiaomi*

**Decision:** The document was **revised to S3-250223**.

**S3-250076 pCR to TR33.713 Update solution#30 to remove EN**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

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

**S3-250077 Resolving ENs for AIoT Security Sol#37**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Xidian, OPPO*

**Decision:** The document was **revised to S3-250225**.

**S3-250078 Resolving ENs in Solution #42 of TR 33.713**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-250183**.

**S3-250079 New Solution to KI#5**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250177**.

**S3-250080 New key issue for secure storage in AIoT devices**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Ericsson, Thales*

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

**S3-250081 New Key Issue on Amplification of resource exhaustion by exploiting AIoT paging messages**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Ericsson*

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

**S3-250082 New key issue for Authenticated and authorized access to devices in Ambient IoT via 3GPP core**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Ericsson*

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

**S3-250083 Pseudo-CR-General conclusion for the architecture of AIoT**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: China mobile*

**Abstract:**

Brief description of document content.

**Decision:** The document was **revised to S3-250232**.

**S3-250084 Pseudo-CR-System architecture and security assumptions for AIoT services**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: China mobile*

**Abstract:**

Brief description of document content.

**Decision:** The document was **revised to S3-250233**.

**S3-250085 Pseudo-CR on New solution on AIoT privacy**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: China mobile*

**Abstract:**

Brief description of document content.

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

**S3-250092 Resolving EN in solution #22**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-250186**.

**S3-250093 Evaluation update for solution#22**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Samsung*

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

**S3-250094 Resolving EN in solution #38**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Samsung*

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

**S3-250095 Evaluation to solution #38**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Samsung*

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

**S3-250110 Conclusion for KI#4 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-250111 Conclusion for KI#5 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-250120 Solution#1 update: Addressing ENs**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-250230**.

**S3-250121 Solution#1 evaluation update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-250229**.

**S3-250122 KI#1 update: Addressing EN**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

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

**S3-250123 KI#3 update: Addressing ENs**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-250228**.

**S3-250124 KI#4 update: Addressing ENs**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-250227**.

**S3-250125 KI#3 conclusions**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

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

**S3-250126 KI#4 conclusions**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

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

**S3-250127 KI#5 conclusions**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

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

**S3-250134 Update on Key Issue#6**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

**Decision:** The document was **revised to S3-250217**.

**S3-250135 Sol#10 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

**Decision:** The document was **revised to S3-250218**.

**S3-250136 Sol#40 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

**Decision:** The document was **revised to S3-250219**.

**S3-250137 Sol#41 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

**Decision:** The document was **revised to S3-250220**.

**S3-250138 Conclusion for Key Issue#4 Information Protection**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

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

**S3-250139 Conclusion for Key Issue#5 AIoT Authentication**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

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

**S3-250140 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

**Abstract:**

Brief description of document content.

**Decision:** The document was **revised to S3-250193**.

**S3-250141 Solution#3 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

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

**S3-250142 Solution#18 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

**Abstract:**

Brief description of document content.

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

**S3-250143 Solution#19 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

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

**S3-250144 Authorization of external AF for Inventory**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-245132)

**Decision:** The document was **revised to S3-250194**.

**S3-250145 KI on attacking via external carrier wave**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: NTT DOCOMO INC.*

**Abstract:**

This pCR documents a discussion of an attacker using unauthorized CW generation. No new security requirements are introduced.

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

**S3-250158 Comments on S3-250145, “KI on attacking via external carrier wave”**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes comments on S3-250145, “KI on attacking via external carrier wave.”

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

**S3-250159 Generic conclusion for AIoT**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Qualcomm Incorporated*

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

**S3-250174 Proposal for a resolution to an EN concerning device constrains**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Nokia*

(Replaces S3-250069)

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

**S3-250175 Update solution#8**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: Apple*

(Replaces S3-250055)

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

**S3-250176 Update solution#28**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: Apple*

(Replaces S3-250056)

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

**S3-250177 New Solution to KI#5**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Ericsson*

(Replaces S3-250079)

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

**S3-250183 Resolving ENs in Solution #42 of TR 33.713**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: KPN N.V.*

(Replaces S3-250078)

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

**S3-250186 Resolving EN in solution #22**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Samsung*

(Replaces S3-250092)

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

**S3-250193 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

(Replaces S3-250140)

**Abstract:**

Brief description of document content.

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

**S3-250194 Authorization of external AF for Inventory**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-250144)

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

**S3-250195 Conclusion to key issue#1**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Lenovo, ZTE, OPPO*

(Replaces S3-250013)

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

**S3-250202 draft TR 33.713 v0.6.0**

*Type: draft TR For: Approval  
 33.713 v0.6.0  
 Source: OPPO*

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

**S3-250203 addressing the editor's note in solution#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-250044)

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

**S3-250204 Generic conclusion on AIoT**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-250047)

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

**S3-250206 conclusion on key issue#4**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Huawei, HiSilicon, OPPO, China Unicom, Lenovo, ZTE, CATT, Xiaomi, Philips*

(Replaces S3-250046)

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

**S3-250208 Evaluation for solution 6**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

(Replaces S3-250025)

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

**S3-250209 Update the scope in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: ZTE Corporation*

(Replaces S3-250028)

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

**S3-250217 Update on Key Issue#6**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

(Replaces S3-250134)

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

**S3-250218 Sol#10 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

(Replaces S3-250135)

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

**S3-250219 Sol#40 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

(Replaces S3-250136)

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

**S3-250220 Sol#41 update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: vivo*

(Replaces S3-250137)

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

**S3-250223 Conclusion for KI#2 in TR 33.713**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

(Replaces S3-250075)

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

**S3-250224 Conclusion on AIOT KI#3**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO*

(Replaces S3-250041)

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

**S3-250225 Resolving ENs for AIoT Security Sol#37**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Xidian, OPPO*

(Replaces S3-250077)

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

**S3-250226 Conclusion on KI#5 AIoT Authentication**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: OPPO, Huawei, HiSilicon, Apple*

(Replaces S3-250058)

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

**S3-250227 KI#4 update: Addressing ENs**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

(Replaces S3-250124)

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

**S3-250228 KI#3 update: Addressing ENs**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

(Replaces S3-250123)

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

**S3-250229 Solution#1 evaluation update**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

(Replaces S3-250121)

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

**S3-250230 Solution#1 update: Addressing ENs**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: Philips International B.V.*

(Replaces S3-250120)

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

**S3-250231 pCR to TR33.713 Update solution#9 to remove EN**

*Type: pCR For: Approval  
 33.713 v0.5.0  
 Source: CATT*

(Replaces S3-250059)

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

**S3-250232 Pseudo-CR-General conclusion for the architecture of AIoT**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: China mobile*

(Replaces S3-250083)

**Abstract:**

Brief description of document content.

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

**S3-250233 Pseudo-CR-System architecture and security assumptions for AIoT services**

*Type: pCR For: (not specified)  
 33.713 v0.5.0  
 Source: China mobile*

(Replaces S3-250084)

**Abstract:**

Brief description of document content.

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

### 5.10 Study on security aspects of Usage of User Identities

### 5.11 Study on UAS security enhancement

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

### 5.13 Study on security aspects of AIML enhancements

### 5.14 Study on EdgeComputing

### 5.15 Study on security aspects for Multi-Access

### 5.16 Study on 5GS enhancements for Energy Saving

**S3-250048 Resolve various EN's for KI#1**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-250049 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-250050 conclusion to KI#2**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-250062 Proposal for a conclusion to KI#1**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Nokia, Deutsche Telekom, BMWK, IIT Bombay*

**Decision:** The document was **revised to S3-250171**.

**S3-250063 Proposal for a conclusion to KI#2**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Nokia, Deutsche Telekom, IIT Bombay*

**Decision:** The document was **revised to S3-250172**.

**S3-250064 TR cleanup**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-250173**.

**S3-250065 Presentation of Report to TSG:**

**TR 33.766, Version 1.0.0**

*Type: TS or TR cover For: Information  
 33.766 v0.5.0  
 Source: Nokia*

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

**S3-250128 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Ericsson*

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

**S3-250129 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Ericsson*

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

**S3-250171 Proposal for a conclusion to KI#1**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Nokia, Deutsche Telekom, BMWK, IIT Bombay, Ericsson, Huawei, HiSilicon*

(Replaces S3-250062)

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

**S3-250172 Proposal for a conclusion to KI#2**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Nokia, Deutsche Telekom, IIT Bombay, Ericsson, Huawei, HiSilicon*

(Replaces S3-250063)

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

**S3-250173 TR cleanup**

*Type: pCR For: Approval  
 33.766 v0.5.0  
 Source: Nokia, Huawei, HiSilicon*

(Replaces S3-250064)

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

**S3-250221 Draft TR 33.766 v0.6.0**

*Type: draft TR For: Approval  
 33.766 v0.6.0  
 Source: Ericsson*

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

### 5.17 Study on security aspects of 5G NR Femto

### 5.18 Study on security aspects of 5G Mobile Metaverse services

**S3-250034 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-250211**.

**S3-250051 Update on Solution #6-Digital asset request validation**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-250052 Conclusion to KI#3 in TR 33.721**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-250088 [TR 33.721] Update to solution#6**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-250190**.

**S3-250112 33.721: Evaluation of Solution 10**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Xiaomi EV Technology*

**Decision:** The document was **revised to S3-250213**.

**S3-250113 33.721: Update to Conclusion on Key Issue #2**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Xiaomi EV Technology*

**Decision:** The document was **revised to S3-250214**.

**S3-250114 33.721: Conclusion on Key Issue #4**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Xiaomi EV Technology*

**Decision:** The document was **revised to S3-250215**.

**S3-250146 Evaluation for Sol2 Authorization supporting spatial localization service with CCF**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-250147 Update Sol3 Authorization supporting spatial localization service with CCF**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-250178**.

**S3-250148 Update Sol5 Privacy protection during metaverse service discovery**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-250179**.

**S3-250149 Update Sol7 authorize avatar by metaverse service provider**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-250150 Update Sol8 authenticate and authorize DA client to create a digital asset**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-250180**.

**S3-250151 Update Sol9 authenticate and authorize DA client to access a digital asset**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-250181**.

**S3-250152 Conclusion for KI3 Security aspects of digital asset container in 5G**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-250153 Conclusion for KI4 Authentication and authorization of digital representation**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-250178 Update Sol3 Authorization supporting spatial localization service with CCF**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-250147)

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

**S3-250179 Update Sol5 Privacy protection during metaverse service discovery**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-250148)

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

**S3-250180 Update Sol8 authenticate and authorize DA client to create a digital asset**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-250150)

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

**S3-250181 Update Sol9 authenticate and authorize DA client to access a digital asset**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-250151)

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

**S3-250190 [TR 33.721] Update to solution#6**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Samsung*

(Replaces S3-250088)

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

**S3-250211 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: ZTE Corporation*

(Replaces S3-250034)

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

**S3-250213 33.721: Evaluation of Solution 10**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Xiaomi EV Technology*

(Replaces S3-250112)

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

**S3-250214 33.721: Update to Conclusion on Key Issue #2**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Xiaomi EV Technology*

(Replaces S3-250113)

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

**S3-250215 33.721: Conclusion on Key Issue #4**

*Type: pCR For: Approval  
 33.721 v0.5.0  
 Source: Xiaomi EV Technology, Nokia, Nokia Shanghai Bell*

(Replaces S3-250114)

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

**S3-250234 Draft TR 33.721 v0.6.0**

*Type: draft TR For: Approval  
 33.721 v0.6.0  
 Source: Samsung*

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

### 5.19 Study on security aspects of CAPIF Phase 3

**S3-250017 KI#1.1-Further conclusions on ROF authentication**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-250182**.

**S3-250018 KI#1.2-Further conclusions on authorization information**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-250019 KI#1.3-Further conclusions on granularity**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-250020 remove EN for KI#1.1**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-250021 remove EN for KI#1.2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-250022 remove EN in clause 6.4**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-250212**.

**S3-250023 editorial corrections in clauses 6.2 and 6.10**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-250216**.

**S3-250035 Update to the conclusion for KI#1.2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: ZTE Corporation*

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

**S3-250036 Update to the conclusion for KI#2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: ZTE Corporation*

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

**S3-250037 Updates to Solution#21**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-250187**.

**S3-250038 Solution to address KI#6**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-250191**.

**S3-250039 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: China Telecom*

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

**S3-250040 Update sol#17 to resolve EN**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: China Telecom*

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

**S3-250053 Conclusion on key issue #1.2 in TR 33.700-22**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: China Telecom*

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

**S3-250086 Update to solution#27**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-250188**.

**S3-250087 Updates to conclusion for key issue#2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-250189**.

**S3-250096 New solution for Authorization of API invoker on one UE accessing resources related to another UE**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250198**.

**S3-250097 Resolving EN in key issue #1.2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250098 Resolving ENs and evaluation of solution #11**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250199**.

**S3-250099 Resolving ENs and evaluation of solution #22**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250200**.

**S3-250100 Resolving ENs and evaluation of solution #26**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250201**.

**S3-250101 Conclusion reformulation for key issue #1.2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250102 Further conclusion for key issue #1.1**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250103 Further conclusion for key issue #1.2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250196**.

**S3-250104 Further conclusion for key issue #1.3**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250105 Further conclusion for key issue #2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250106 Conclusion for key issue #3**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-250197**.

**S3-250107 Conclusion for key issue #4**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250108 Conclusion for key issue #5**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250109 Conclusion for key issue #6**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

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

**S3-250115 Draft CR on TS 33.122**

*Type: draftCR For: Approval  
 33.122 v18.4.0  
 Source: Xiaomi communications*

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

**S3-250116 TR 33.700-22KI#1.1 conclusion update**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Xiaomi communications*

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

**S3-250117 TR 33.700-22KI#1.2 conclusion update**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Xiaomi communications*

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

**S3-250118 TR 33.700-22KI#1.3 conclusion update**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Xiaomi communications*

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

**S3-250119 TR 33.700-22KI#2 conclusion update**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Xiaomi communications*

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

**S3-250160 KI1.1 ROF authentication conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250161 KI1.1 ROF authentication**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250162 KI1.1 Solution 3 update**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250163 KI1.2 EN resolution in solution 7**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250164 KI1.3 conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

**Decision:** The document was **revised to S3-250222**.

**S3-250165 KI2 interconnect conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250166 KI3 conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250167 KI4 Nested API invocation conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250168 KI5 muliple API infovoker same RO conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250169 TR correction**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia*

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

**S3-250182 KI#1.1-Further conclusions on ROF authentication**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon, Ericsson, Xiaomi, Nokia*

(Replaces S3-250017)

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

**S3-250187 Updates to Solution#21**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Lenovo*

(Replaces S3-250037)

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

**S3-250188 Update to solution#27**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Samsung*

(Replaces S3-250086)

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

**S3-250189 Updates to conclusion for key issue#2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Samsung*

(Replaces S3-250087)

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

**S3-250191 Solution to address KI#6**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Lenovo*

(Replaces S3-250038)

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

**S3-250196 Further conclusion for key issue #1.2**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson, Huawei, HiSilicon, ZTE Corporation, China Telecom, Xiaomi communications, Nokia*

(Replaces S3-250103)

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

**S3-250197 Conclusion for key issue #3**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson, Nokia*

(Replaces S3-250106)

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

**S3-250198 New solution for Authorization of API invoker on one UE accessing resources related to another UE**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

(Replaces S3-250096)

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

**S3-250199 Resolving ENs and evaluation of solution #11**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

(Replaces S3-250098)

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

**S3-250200 Resolving ENs and evaluation of solution #22**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

(Replaces S3-250099)

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

**S3-250201 Resolving ENs and evaluation of solution #26**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Ericsson*

(Replaces S3-250100)

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

**S3-250212 remove EN in clause 6.4**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-250022)

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

**S3-250216 editorial corrections in clauses 6.2 and 6.10**

*Type: pCR For: Approval  
 33.700-22 v0.3.0  
 Source: Huawei, HiSilicon, Nokia*

(Replaces S3-250023)

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

**S3-250222 KI1.3 conclusion**

*Type: pCR For: (not specified)  
 33.700-22 v0.3.0  
 Source: Nokia, Huawei, HiSilicon, Xiaomi*

(Replaces S3-250164)

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

**S3-250235 Study on security aspects of CAPIF Phase3**

*Type: draft TR For: Approval  
 33.700-22 v0.4.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S3-250236**.

**S3-250236 Study on security aspects of CAPIF Phase3**

*Type: draft TR For: Approval  
 33.700-22 v0.5.0  
 Source: Ericsson LM*

(Replaces S3-250235)

**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 |
| S3-250001 | Agenda | SA WG3 Chair | approved | - | - |
| S3-250002 | Process for SA3#119AdHoc-e | SA WG3 Chair | noted | - | - |
| S3-250003 | Detailed agenda planning | SA WG3 Chair | noted | - | - |
| S3-250004 | LS on security aspects of Ambient IoT | S2-2411049 | postponed | - | - |
| S3-250005 | LS on RAN2 outcome of Ambient IoT study | R2-2411263 | noted | - | - |
| S3-250006 | Reply to LS on Further Clarification for Ambient IoT Security | S1-244920 | noted | - | - |
| S3-250007 | LS on A-IoT Conclusions in SA WG2 | S2-2413035 | noted | - | - |
| S3-250008 | Reply LS on terminology alignment between SA6 and SA3 | S6-245644 | noted | - | - |
| S3-250009 | Reply LS on clarifications on consent management | SP-241934 | noted | - | - |
| S3-250010 | New KI: Reader Authorization for 5G Ambient IoT Services | InterDigital, Inc. | noted | - | - |
| S3-250011 | KI#3, Conclusions | Sony | merged | - | S3-250224 |
| S3-250012 | KI#5, Conclusions | Sony | noted | - | - |
| S3-250013 | Conclusion to key issue#1 | Lenovo | revised | - | S3-250195 |
| S3-250014 | Conclusion to key issue#3 | Lenovo | merged | - | S3-250224 |
| S3-250015 | Conclusion to key issue#4 | Lenovo | merged | - | S3-250206 |
| S3-250016 | Conclusion to key issue#5 | Lenovo | merged | - | S3-250226 |
| S3-250017 | KI#1.1-Further conclusions on ROF authentication | Huawei, HiSilicon | revised | - | S3-250182 |
| S3-250018 | KI#1.2-Further conclusions on authorization information | Huawei, HiSilicon | merged | - | S3-250182 |
| S3-250019 | KI#1.3-Further conclusions on granularity | Huawei, HiSilicon | merged | - | S3-250222 |
| S3-250020 | remove EN for KI#1.1 | Huawei, HiSilicon | approved | - | - |
| S3-250021 | remove EN for KI#1.2 | Huawei, HiSilicon | noted | - | - |
| S3-250022 | remove EN in clause 6.4 | Huawei, HiSilicon | revised | - | S3-250212 |
| S3-250023 | editorial corrections in clauses 6.2 and 6.10 | Huawei, HiSilicon | revised | - | S3-250216 |
| S3-250024 | Resolving ENs in sol#6 in TR 33.713 | ZTE Corporation | approved | - | - |
| S3-250025 | Evaluation for solution 6 | ZTE Corporation | revised | - | S3-250208 |
| S3-250026 | Update the KI#2 in TR 33.713 | ZTE Corporation | noted | - | - |
| S3-250027 | Update the KI#3 in TR 33.713 | ZTE Corporation | approved | - | - |
| S3-250028 | Update the scope in TR 33.713 | ZTE Corporation | revised | - | S3-250209 |
| S3-250029 | Conclusion for KI#1 | ZTE Corporation | merged | - | S3-250195 |
| S3-250030 | Conclusion for KI#2 | ZTE Corporation | merged | - | S3-250223 |
| S3-250031 | Conclusion for KI#3 | ZTE Corporation | merged | - | S3-250224 |
| S3-250032 | Conclusion for KI#4 | ZTE Corporation | merged | - | S3-250206 |
| S3-250033 | Conclusion for KI#5 | ZTE Corporation | merged | - | S3-250226 |
| S3-250034 | Conclusion for KI#3 | ZTE Corporation | revised | - | S3-250211 |
| S3-250035 | Update to the conclusion for KI#1.2 | ZTE Corporation | merged | - | S3-250182 |
| S3-250036 | Update to the conclusion for KI#2 | ZTE Corporation | merged | - | S3-250189 |
| S3-250037 | Updates to Solution#21 | Lenovo | revised | - | S3-250187 |
| S3-250038 | Solution to address KI#6 | Lenovo | revised | - | S3-250191 |
| S3-250039 | Conclusion for KI#2 | China Telecom | merged | - | S3-250189 |
| S3-250040 | Update sol#17 to resolve EN | China Telecom | approved | - | - |
| S3-250041 | Conclusion on AIOT KI#3 | OPPO | revised | - | S3-250224 |
| S3-250042 | Update AIOT KI#3 | OPPO | noted | - | - |
| S3-250043 | Reply LS on security aspects of Ambient IoT | OPPO | noted | - | - |
| S3-250044 | addressing the editor's note in solution#4 | Huawei, HiSilicon | revised | - | S3-250203 |
| S3-250045 | Discussion paper on the conclusion on key issue#5 | Huawei, HiSilicon | noted | - | - |
| S3-250046 | conclusion on key issue#4 | Huawei, HiSilicon, OPPO, China Unicom | revised | - | S3-250206 |
| S3-250047 | Generic conclusion on AIoT | Huawei, HiSilicon | revised | - | S3-250204 |
| S3-250048 | Resolve various EN's for KI#1 | Huawei, HiSilicon | merged | - | S3-250173 |
| S3-250049 | Conclusion for KI#1 | Huawei, HiSilicon | merged | - | S3-250171 |
| S3-250050 | conclusion to KI#2 | Huawei, HiSilicon | merged | - | S3-250172 |
| S3-250051 | Update on Solution #6-Digital asset request validation | Huawei, HiSilicon | noted | - | - |
| S3-250052 | Conclusion to KI#3 in TR 33.721 | Huawei, HiSilicon | merged | - | S3-250211 |
| S3-250053 | Conclusion on key issue #1.2 in TR 33.700-22 | China Telecom | merged | - | S3-250182 |
| S3-250054 | Adding evaluation for solution#3 | Apple | noted | - | - |
| S3-250055 | Update solution#8 | Apple | revised | - | S3-250175 |
| S3-250056 | Update solution#28 | Apple | revised | - | S3-250176 |
| S3-250057 | Update solution#31 | Apple | approved | - | - |
| S3-250058 | Conclusion on KI#5 AIoT Authentication | OPPO | revised | - | S3-250226 |
| S3-250059 | pCR to TR33.713 Update solution#9 to remove EN | CATT | revised | - | S3-250231 |
| S3-250060 | pCR to TR33.713 New solution AIoT command message security protection procedure | CATT | noted | - | - |
| S3-250061 | pCR to TR33.713 Generic conclusion | CATT | merged | - | S3-250204 |
| S3-250062 | Proposal for a conclusion to KI#1 | Nokia, Deutsche Telekom, BMWK, IIT Bombay | revised | - | S3-250171 |
| S3-250063 | Proposal for a conclusion to KI#2 | Nokia, Deutsche Telekom, IIT Bombay | revised | - | S3-250172 |
| S3-250064 | TR cleanup | Nokia | revised | - | S3-250173 |
| S3-250065 | Presentation of Report to TSG:  TR 33.766, Version 1.0.0 | Nokia | endorsed | - | - |
| S3-250066 | Proposal for a conclusion | Nokia | merged | - | S3-250204 |
| S3-250067 | Proposal for a resolution to an EN concerning counter synchronisation | Nokia | approved | - | - |
| S3-250068 | Proposal for a resolution of an EN concerning alignment with RAN specifications | Nokia | approved | - | - |
| S3-250069 | Proposal for a resolution to an EN concerning device constrains | Nokia | revised | - | S3-250174 |
| S3-250070 | Proposal for a resolution to an EN concerning key identification | Nokia | approved | - | - |
| S3-250071 | LS reply to LS on security aspects of Ambient IoT | Nokia | noted | - | - |
| S3-250072 | pCR to TR33.713 Conclusion#3 | CATT | merged | - | S3-250224 |
| S3-250073 | pCR to TR33.713 Conclusion#4 | CATT | merged | - | S3-250206 |
| S3-250074 | pCR to TR33.713 Conclusion#5 | CATT | merged | - | S3-250226 |
| S3-250075 | Conclusion for KI#2 in TR 33.713 | OPPO, Xiaomi | revised | - | S3-250223 |
| S3-250076 | pCR to TR33.713 Update solution#30 to remove EN | CATT | noted | - | - |
| S3-250077 | Resolving ENs for AIoT Security Sol#37 | Xidian, OPPO | revised | - | S3-250225 |
| S3-250078 | Resolving ENs in Solution #42 of TR 33.713 | KPN N.V. | revised | - | S3-250183 |
| S3-250079 | New Solution to KI#5 | Ericsson | revised | - | S3-250177 |
| S3-250080 | New key issue for secure storage in AIoT devices | Ericsson, Thales | noted | - | - |
| S3-250081 | New Key Issue on Amplification of resource exhaustion by exploiting AIoT paging messages | Ericsson | noted | - | - |
| S3-250082 | New key issue for Authenticated and authorized access to devices in Ambient IoT via 3GPP core | Ericsson | noted | - | - |
| S3-250083 | Pseudo-CR-General conclusion for the architecture of AIoT | China mobile | revised | - | S3-250232 |
| S3-250084 | Pseudo-CR-System architecture and security assumptions for AIoT services | China mobile | revised | - | S3-250233 |
| S3-250085 | Pseudo-CR on New solution on AIoT privacy | China mobile | noted | - | - |
| S3-250086 | Update to solution#27 | Samsung | revised | - | S3-250188 |
| S3-250087 | Updates to conclusion for key issue#2 | Samsung | revised | - | S3-250189 |
| S3-250088 | [TR 33.721] Update to solution#6 | Samsung | revised | - | S3-250190 |
| S3-250089 | Updates to solution#6 | Samsung | revised | - | S3-250184 |
| S3-250090 | Evaluation updates for solution#6 | Samsung | revised | - | S3-250185 |
| S3-250091 | Conclusion for Key issue#2 | Samsung | merged | - | S3-250192 |
| S3-250092 | Resolving EN in solution #22 | Samsung | revised | - | S3-250186 |
| S3-250093 | Evaluation update for solution#22 | Samsung | approved | - | - |
| S3-250094 | Resolving EN in solution #38 | Samsung | approved | - | - |
| S3-250095 | Evaluation to solution #38 | Samsung | approved | - | - |
| S3-250096 | New solution for Authorization of API invoker on one UE accessing resources related to another UE | Ericsson | revised | - | S3-250198 |
| S3-250097 | Resolving EN in key issue #1.2 | Ericsson | noted | - | - |
| S3-250098 | Resolving ENs and evaluation of solution #11 | Ericsson | revised | - | S3-250199 |
| S3-250099 | Resolving ENs and evaluation of solution #22 | Ericsson | revised | - | S3-250200 |
| S3-250100 | Resolving ENs and evaluation of solution #26 | Ericsson | revised | - | S3-250201 |
| S3-250101 | Conclusion reformulation for key issue #1.2 | Ericsson | merged | - | S3-250196 |
| S3-250102 | Further conclusion for key issue #1.1 | Ericsson | merged | - | S3-250182 |
| S3-250103 | Further conclusion for key issue #1.2 | Ericsson | revised | - | S3-250196 |
| S3-250104 | Further conclusion for key issue #1.3 | Ericsson | withdrawn | - | - |
| S3-250105 | Further conclusion for key issue #2 | Ericsson | merged | - | S3-250189 |
| S3-250106 | Conclusion for key issue #3 | Ericsson | revised | - | S3-250197 |
| S3-250107 | Conclusion for key issue #4 | Ericsson | noted | - | - |
| S3-250108 | Conclusion for key issue #5 | Ericsson | noted | - | - |
| S3-250109 | Conclusion for key issue #6 | Ericsson | noted | - | - |
| S3-250110 | Conclusion for KI#4 in TR 33.713 | Beijing Xiaomi Mobile Software | merged | - | S3-250206 |
| S3-250111 | Conclusion for KI#5 in TR 33.713 | Beijing Xiaomi Mobile Software | merged | - | S3-250226 |
| S3-250112 | 33.721: Evaluation of Solution 10 | Xiaomi EV Technology | revised | - | S3-250213 |
| S3-250113 | 33.721: Update to Conclusion on Key Issue #2 | Xiaomi EV Technology | revised | - | S3-250214 |
| S3-250114 | 33.721: Conclusion on Key Issue #4 | Xiaomi EV Technology | revised | - | S3-250215 |
| S3-250115 | Draft CR on TS 33.122 | Xiaomi communications | noted | - | - |
| S3-250116 | TR 33.700-22KI#1.1 conclusion update | Xiaomi communications | merged | - | S3-250182 |
| S3-250117 | TR 33.700-22KI#1.2 conclusion update | Xiaomi communications | merged | - | S3-250196 |
| S3-250118 | TR 33.700-22KI#1.3 conclusion update | Xiaomi communications | merged | - | S3-250222 |
| S3-250119 | TR 33.700-22KI#2 conclusion update | Xiaomi communications | merged | - | S3-250189 |
| S3-250120 | Solution#1 update: Addressing ENs | Philips International B.V. | revised | - | S3-250230 |
| S3-250121 | Solution#1 evaluation update | Philips International B.V. | revised | - | S3-250229 |
| S3-250122 | KI#1 update: Addressing EN | Philips International B.V. | approved | - | - |
| S3-250123 | KI#3 update: Addressing ENs | Philips International B.V. | revised | - | S3-250228 |
| S3-250124 | KI#4 update: Addressing ENs | Philips International B.V. | revised | - | S3-250227 |
| S3-250125 | KI#3 conclusions | Philips International B.V. | merged | - | S3-250224 |
| S3-250126 | KI#4 conclusions | Philips International B.V. | merged | - | S3-250206 |
| S3-250127 | KI#5 conclusions | Philips International B.V. | merged | - | S3-250226 |
| S3-250128 | Conclusion for KI#1 | Ericsson | merged | - | S3-250171 |
| S3-250129 | Conclusion for KI#2 | Ericsson | merged | - | S3-250172 |
| S3-250130 | LS on User Consent aspects for Energy Saving | Ericsson | noted | - | - |
| S3-250131 | Solution#5 update for alignment with SA2 and addressing EN | HUAWEI TECHNOLOGIES Co. Ltd. | revised | - | S3-250207 |
| S3-250132 | Conclusion to KI#2 of NG\_RTC | HUAWEI TECHNOLOGIES Co. Ltd. | revised | - | S3-250192 |
| S3-250133 | Conclusion to KI#3 of NG\_RTC | HUAWEI TECHNOLOGIES Co. Ltd. | revised | - | S3-250210 |
| S3-250134 | Update on Key Issue#6 | vivo | revised | - | S3-250217 |
| S3-250135 | Sol#10 update | vivo | revised | - | S3-250218 |
| S3-250136 | Sol#40 update | vivo | revised | - | S3-250219 |
| S3-250137 | Sol#41 update | vivo | revised | - | S3-250220 |
| S3-250138 | Conclusion for Key Issue#4 Information Protection | vivo | noted | - | - |
| S3-250139 | Conclusion for Key Issue#5 AIoT Authentication | vivo | merged | - | S3-250226 |
| S3-250140 | Conclusion to KI#1 | OPPO | revised | - | S3-250193 |
| S3-250141 | Solution#3 update | OPPO | approved | - | - |
| S3-250142 | Solution#18 update | OPPO | approved | - | - |
| S3-250143 | Solution#19 update | OPPO | approved | - | - |
| S3-250144 | Authorization of external AF for Inventory | NTT DOCOMO INC. | revised | S3-245132 | S3-250194 |
| S3-250145 | KI on attacking via external carrier wave | NTT DOCOMO INC. | noted | - | - |
| S3-250146 | Evaluation for Sol2 Authorization supporting spatial localization service with CCF | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-250147 | Update Sol3 Authorization supporting spatial localization service with CCF | Nokia, Nokia Shanghai Bell | revised | - | S3-250178 |
| S3-250148 | Update Sol5 Privacy protection during metaverse service discovery | Nokia, Nokia Shanghai Bell | revised | - | S3-250179 |
| S3-250149 | Update Sol7 authorize avatar by metaverse service provider | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-250150 | Update Sol8 authenticate and authorize DA client to create a digital asset | Nokia, Nokia Shanghai Bell | revised | - | S3-250180 |
| S3-250151 | Update Sol9 authenticate and authorize DA client to access a digital asset | Nokia, Nokia Shanghai Bell | revised | - | S3-250181 |
| S3-250152 | Conclusion for KI3 Security aspects of digital asset container in 5G | Nokia, Nokia Shanghai Bell | merged | - | S3-250211 |
| S3-250153 | Conclusion for KI4 Authentication and authorization of digital representation | Nokia, Nokia Shanghai Bell | merged | - | S3-250215 |
| S3-250154 | Conclusion for KI2 IMS based Avatar Communication | Nokia, Nokia Shanghai Bell | merged | - | S3-250192 |
| S3-250155 | Update KI#1: Third party specific user identities to include NEF-AF interface security | Ericsson | noted | - | - |
| S3-250156 | LS on IMS support for AF authorization | Ericsson | revised | - | S3-250170 |
| S3-250157 | Conclusion for KI3 IMS DC capability exposure | Nokia, Nokia Shanghai Bell | merged | - | S3-250210 |
| S3-250158 | Comments on S3-250145, “KI on attacking via external carrier wave” | InterDigital, Inc. | noted | - | - |
| S3-250159 | Generic conclusion for AIoT | Qualcomm Incorporated | merged | - | S3-250204 |
| S3-250160 | KI1.1 ROF authentication conclusion | Nokia | merged | - | S3-250182 |
| S3-250161 | KI1.1 ROF authentication | Nokia | approved | - | - |
| S3-250162 | KI1.1 Solution 3 update | Nokia | approved | - | - |
| S3-250163 | KI1.2 EN resolution in solution 7 | Nokia | approved | - | - |
| S3-250164 | KI1.3 conclusion | Nokia | revised | - | S3-250222 |
| S3-250165 | KI2 interconnect conclusion | Nokia | merged | - | S3-250189 |
| S3-250166 | KI3 conclusion | Nokia | merged | - | S3-250197 |
| S3-250167 | KI4 Nested API invocation conclusion | Nokia | noted | - | - |
| S3-250168 | KI5 muliple API infovoker same RO conclusion | Nokia | noted | - | - |
| S3-250169 | TR correction | Nokia | merged | - | S3-250216 |
| S3-250170 | LS on IMS support for AF authorization and IMS avatar communication | Ericsson | approved | S3-250156 | - |
| S3-250171 | Proposal for a conclusion to KI#1 | Nokia, Deutsche Telekom, BMWK, IIT Bombay, Ericsson, Huawei, HiSilicon | approved | S3-250062 | - |
| S3-250172 | Proposal for a conclusion to KI#2 | Nokia, Deutsche Telekom, IIT Bombay, Ericsson, Huawei, HiSilicon | approved | S3-250063 | - |
| S3-250173 | TR cleanup | Nokia, Huawei, HiSilicon | approved | S3-250064 | - |
| S3-250174 | Proposal for a resolution to an EN concerning device constrains | Nokia | approved | S3-250069 | - |
| S3-250175 | Update solution#8 | Apple | approved | S3-250055 | - |
| S3-250176 | Update solution#28 | Apple | approved | S3-250056 | - |
| S3-250177 | New Solution to KI#5 | Ericsson | approved | S3-250079 | - |
| S3-250178 | Update Sol3 Authorization supporting spatial localization service with CCF | Nokia, Nokia Shanghai Bell | approved | S3-250147 | - |
| S3-250179 | Update Sol5 Privacy protection during metaverse service discovery | Nokia, Nokia Shanghai Bell | approved | S3-250148 | - |
| S3-250180 | Update Sol8 authenticate and authorize DA client to create a digital asset | Nokia, Nokia Shanghai Bell | approved | S3-250150 | - |
| S3-250181 | Update Sol9 authenticate and authorize DA client to access a digital asset | Nokia, Nokia Shanghai Bell | approved | S3-250151 | - |
| S3-250182 | KI#1.1-Further conclusions on ROF authentication | Huawei, HiSilicon, Ericsson, Xiaomi, Nokia | approved | S3-250017 | - |
| S3-250183 | Resolving ENs in Solution #42 of TR 33.713 | KPN N.V. | approved | S3-250078 | - |
| S3-250184 | Updates to solution#6 | Samsung | approved | S3-250089 | - |
| S3-250185 | Evaluation updates for solution#6 | Samsung | approved | S3-250090 | - |
| S3-250186 | Resolving EN in solution #22 | Samsung | approved | S3-250092 | - |
| S3-250187 | Updates to Solution#21 | Lenovo | approved | S3-250037 | - |
| S3-250188 | Update to solution#27 | Samsung | approved | S3-250086 | - |
| S3-250189 | Updates to conclusion for key issue#2 | Samsung | approved | S3-250087 | - |
| S3-250190 | [TR 33.721] Update to solution#6 | Samsung | approved | S3-250088 | - |
| S3-250191 | Solution to address KI#6 | Lenovo | approved | S3-250038 | - |
| S3-250192 | Conclusion to KI#2 of NG\_RTC | HUAWEI TECHNOLOGIES Co. Ltd. | approved | S3-250132 | - |
| S3-250193 | Conclusion to KI#1 | OPPO | approved | S3-250140 | - |
| S3-250194 | Authorization of external AF for Inventory | NTT DOCOMO INC. | approved | S3-250144 | - |
| S3-250195 | Conclusion to key issue#1 | Lenovo, ZTE, OPPO | approved | S3-250013 | - |
| S3-250196 | Further conclusion for key issue #1.2 | Ericsson, Huawei, HiSilicon, ZTE Corporation, China Telecom, Xiaomi communications, Nokia | approved | S3-250103 | - |
| S3-250197 | Conclusion for key issue #3 | Ericsson, Nokia | approved | S3-250106 | - |
| S3-250198 | New solution for Authorization of API invoker on one UE accessing resources related to another UE | Ericsson | approved | S3-250096 | - |
| S3-250199 | Resolving ENs and evaluation of solution #11 | Ericsson | approved | S3-250098 | - |
| S3-250200 | Resolving ENs and evaluation of solution #22 | Ericsson | approved | S3-250099 | - |
| S3-250201 | Resolving ENs and evaluation of solution #26 | Ericsson | approved | S3-250100 | - |
| S3-250202 | draft TR 33.713 v0.6.0 | OPPO | approved | - | - |
| S3-250203 | addressing the editor's note in solution#4 | Huawei, HiSilicon | approved | S3-250044 | - |
| S3-250204 | Generic conclusion on AIoT | Huawei, HiSilicon | approved | S3-250047 | - |
| S3-250205 | Draft TR 33.790 v1.1.0 Study on the security support for the next generation real time communication services phase 2 | Ericsson Hungary Ltd | approved | - | - |
| S3-250206 | conclusion on key issue#4 | Huawei, HiSilicon, OPPO, China Unicom, Lenovo, ZTE, CATT, Xiaomi, Philips | noted | S3-250046 | - |
| S3-250207 | Solution#5 update for alignment with SA2 and addressing EN | HUAWEI TECHNOLOGIES Co. Ltd. | approved | S3-250131 | - |
| S3-250208 | Evaluation for solution 6 | ZTE Corporation | approved | S3-250025 | - |
| S3-250209 | Update the scope in TR 33.713 | ZTE Corporation | approved | S3-250028 | - |
| S3-250210 | Conclusion to KI#3 of NG\_RTC | HUAWEI TECHNOLOGIES Co. Ltd. | approved | S3-250133 | - |
| S3-250211 | Conclusion for KI#3 | ZTE Corporation | approved | S3-250034 | - |
| S3-250212 | remove EN in clause 6.4 | Huawei, HiSilicon | approved | S3-250022 | - |
| S3-250213 | 33.721: Evaluation of Solution 10 | Xiaomi EV Technology | approved | S3-250112 | - |
| S3-250214 | 33.721: Update to Conclusion on Key Issue #2 | Xiaomi EV Technology | approved | S3-250113 | - |
| S3-250215 | 33.721: Conclusion on Key Issue #4 | Xiaomi EV Technology, Nokia, Nokia Shanghai Bell | approved | S3-250114 | - |
| S3-250216 | editorial corrections in clauses 6.2 and 6.10 | Huawei, HiSilicon, Nokia | approved | S3-250023 | - |
| S3-250217 | Update on Key Issue#6 | vivo | approved | S3-250134 | - |
| S3-250218 | Sol#10 update | vivo | approved | S3-250135 | - |
| S3-250219 | Sol#40 update | vivo | approved | S3-250136 | - |
| S3-250220 | Sol#41 update | vivo | approved | S3-250137 | - |
| S3-250221 | Draft TR 33.766 v0.6.0 | Ericsson | approved | - | - |
| S3-250222 | KI1.3 conclusion | Nokia, Huawei, HiSilicon, Xiaomi | noted | S3-250164 | - |
| S3-250223 | Conclusion for KI#2 in TR 33.713 | OPPO | approved | S3-250075 | - |
| S3-250224 | Conclusion on AIOT KI#3 | OPPO | noted | S3-250041 | - |
| S3-250225 | Resolving ENs for AIoT Security Sol#37 | Xidian, OPPO | approved | S3-250077 | - |
| S3-250226 | Conclusion on KI#5 AIoT Authentication | OPPO, Huawei, HiSilicon, Apple | approved | S3-250058 | - |
| S3-250227 | KI#4 update: Addressing ENs | Philips International B.V. | approved | S3-250124 | - |
| S3-250228 | KI#3 update: Addressing ENs | Philips International B.V. | approved | S3-250123 | - |
| S3-250229 | Solution#1 evaluation update | Philips International B.V. | approved | S3-250121 | - |
| S3-250230 | Solution#1 update: Addressing ENs | Philips International B.V. | approved | S3-250120 | - |
| S3-250231 | pCR to TR33.713 Update solution#9 to remove EN | CATT | approved | S3-250059 | - |
| S3-250232 | Pseudo-CR-General conclusion for the architecture of AIoT | China mobile | approved | S3-250083 | - |
| S3-250233 | Pseudo-CR-System architecture and security assumptions for AIoT services | China mobile | approved | S3-250084 | - |
| S3-250234 | Draft TR 33.721 v0.6.0 | Samsung | approved | - | - |
| S3-250235 | Study on security aspects of CAPIF Phase3 | Ericsson LM | revised | - | S3-250236 |
| S3-250236 | Study on security aspects of CAPIF Phase3 | Ericsson LM | approved | S3-250235 | - |
| S3-250237 | SA3 leadership meeting notes | MCC | available | - | - |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-250004 |  | LS on security aspects of Ambient IoT | S2-2411049 | postponed | (none) |
| S3-250005 |  | LS on RAN2 outcome of Ambient IoT study | R2-2411263 | noted | (none) |
| S3-250006 |  | Reply to LS on Further Clarification for Ambient IoT Security | S1-244920 | noted | (none) |
| S3-250007 |  | LS on A-IoT Conclusions in SA WG2 | S2-2413035 | noted | (none) |
| S3-250008 |  | Reply LS on terminology alignment between SA6 and SA3 | S6-245644 | noted | (none) |
| S3-250009 |  | Reply LS on clarifications on consent management | SP-241934 | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-250170 | LS on IMS support for AF authorization and IMS avatar communication | SA2 | - |  |

## Annex D: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-250202 | 33.713 | 0.6.0 | draft TR 33.713 v0.6.0 |
| S3-250205 | 33.790 | 1.1.0 | Draft TR 33.790 v1.1.0 Study on the security support for the next generation real time communication services phase 2 |
| S3-250221 | 33.766 | 0.6.0 | Draft TR 33.766 v0.6.0 |
| S3-250234 | 33.721 | 0.6.0 | Draft TR 33.721 v0.6.0 |
| S3-250235 | 33.700-22 | 0.4.0 | Study on security aspects of CAPIF Phase3 |
| S3-250236 | 33.700-22 | 0.5.0 | Study on security aspects of CAPIF Phase3 |

## Annex E: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Mr. | Achter | Johannes | Deutsche Telekom AG | Deutsche Telekom AG |
| Mr. | Ai | Ming | CATT | Wuhan Hongxin Technology |
| Dr. | Bao | Shihan | CICT | CICT |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Dr. | Ben Henda | Noamen | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bilca | Michael | OTD\_US | OTD\_US |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Denmark |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Buckley | Adrian | Verizon UK Ltd | Verizon Spain |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon Denmark |
| Ms. | CHAKRABARTI | SAMITA | Verizon UK Ltd | Verizon Netherlands |
| Miss | Cheng | Cuiru | China Unicom | BTPDI |
| Mr. | Cho | Daniel | Ericsson LM | Ericsson LM |
| Ms. | Cho | Min Kyoung | DTCY | KDDI Corporation |
| Mr. | Choi | Hongjin | Samsung Electronics Co., Ltd | Samsung Electronics Co., Ltd |
| Mr. | Doerr | Johannes | BMWK | BMWK |
| Mr. | Eckel | Charles | Cisco Systems Belgium | Cisco Systems Belgium |
| Mrs. | Efraim-Sagi | Penny | Wiliot Ltd. | Wiliot Ltd. |
| Dr. | Falk | Rainer | Siemens AG | Siemens AG |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital Canada |
| Miss | Flygare | Helena | Ericsson LM | Ericsson LM |
| Dr. | Gadgil | Shubhada | IIT Bombay | IIT Bombay |
| Dr. | Gallo | Luigi | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Gamishev | Todor | Orange | Orange |
| Mrs. | Gan | Lu | OPPO | Guangdong OPPO Mobile Telecom. |
| Ms. | Gong | Ruby | Beijing Xiaomi Mobile Software | Xiaomi Communications |
| Mr. | Graham | Jason | OTD\_US | OTD\_US |
| Mr. | Grewal | Rajpreet Singh | NTIA | NTIA |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | Huawei Technologies (Korea) |
| Prof. | Hanawal | Manjesh Kumar | IIT Bombay | IIT Bombay |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson LM |
| Mr. | Hu | Li | vivo Mobile Communication Co., | vivo Mobile Communication Co., |
| Miss | Jerichow | Anja | Nokia Germany | Nokia Germany |
| Miss | Johnstone | Amy | BT plc | BT plc |
| Mr. | Kakinada | Achari | Charter Communications, Inc | Charter Communications, Inc |
| Dr. | Kamran | Rashmi | IIT Bombay | IIT Bombay |
| Dr. | Karakoc | Ferhat | Ericsson LM | Ericsson LM |
| Dr. | Keesmaat | Iko | TNO | TNO |
| Dr. | Khan | Mohsin | Ericsson LM | Ericsson LM |
| Mr. | Khare | Saurabh | Nokia Germany | Nokia Solutions & Networks (I) |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics Polska |
| Mr. | Kim | Warren | Johns Hopkins University APL | Johns Hopkins University APL |
| Ms. | Kiran | Shwetha | IIT Bombay | IIT Bombay |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd |
| Ms. | Koser | Elizabeth | U.S. National Security Agency | U.S. National Security Agency |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Motorola Mobility UK Ltd. |
| Ms. | Lam | Maria | Verizon Switzerland AG | Verizon Switzerland AG |
| Mr. | Lee | Xiaoyang | CISA ECD | CISA ECD |
| Dr. | Lees | Kevin | NPL | NPL |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies R&D UK |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | Huawei Device Co., Ltd |
| Dr. | Leung | Henry(Haoran) | Xiaomi Communications | Xiaomi Technology |
| Ms. | Li | Chenyi | China Unicom | Unicompay |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Mr. | Li | Meng | Guangdong OPPO Mobile Telecom. | OPPO Beijing |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech | Beijing Xiaomi Electronics |
| Miss | Liu | Peilin | ZTE Corporation | ZTE Corporation |
| Mr. | Liu | Yuze | ZTE Corporation | ZTE Corporation |
| Mr. | Loushine | Mike | AT&T | AT&T Services, Inc. |
| Dr. | Lu | Jonathan | FCC | FCC |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi EV Technology |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Mr. | MAO | Yuxin | Beijing Xiaomi Mobile Software | Xiaomi Digital Technology |
| Mr. | Mishra | Chandan C | IIT Bombay | IIT Bombay |
| Mr. | Nair | Suresh | Nokia Germany | Nokia |
| Mr. | NAKAMURA | Kazuo | NICT | NICT |
| Dr. | Nakano | Yuto | KDDI Corporation | KDDI Corporation |
| Mr. | Nord | Lars | Sony Europe B.V. | Sony Group Corporation |
| Mr. | Norton | Mark | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Pandey | Anupkumar | Jio | Jio |
| Mr. | Parsel | Mike | T-Mobile USA | T-Mobile USA Inc. |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Deutsche Telekom AG |
| Mrs. | Pauliac | Mireille | THALES | THALES |
| Miss | Ping | Jing | Nokia Shanghai Bell | Nokia Shanghai Bell |
| Dr. | Pu | Hongyi | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Electronics Co., Ltd |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | Samsung R&D Institute India |
| Dr. | Ramamurthi | Vishwanath (Vishwa) | Verizon UK Ltd | Verizon France |
| Mr. | Rathod | Niraj | Ericsson LM | Ericsson LM |
| Mr. | Ravichandran | Bharath Kumar | Samsung R&D Institute India | Samsung R&D Institute India |
| Mr. | Ren | Chi | China Unicom | CU Digital Technology |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mrs. | S | Aswathy | CEWiT | CEWiT |
| Mr. | Sabah | Noureddine | Philips International B.V. | Philips International B.V. |
| Mr. | Saboorian | Tony | Futurewei Technologies | Futurewei Technologies |
| Mr. | Saleem | Imran | Huawei Tech.(UK) Co.. Ltd | HuaWei Technologies Co., Ltd |
| Mr. | Schumacher | Gregory | Peraton Labs | Peraton Labs |
| Mr. | Scribano | Gino | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Sedjelmaci | Hichem | Huawei Technologies France | Huawei Technologies France |
| Mr. | Shang | Chao | Xidian University | Xidian University |
| Miss | Shang | Zhengyi | Beijing Xiaomi Mobile Software | Beijing Xiaomi Software Tech |
| Mr. | Shraga | Avishay | Sony Europe B.V. | Sony Europe B.V. |
| Dr. | Taksande | Pradnya | IIT Bombay | IIT Bombay |
| Dr. | Tang | Richard | Verizon UK Ltd | Verizon Finland |
| Ms. | Tang | Tingfang | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Dr. | Targali | Yousif | Verizon UK Ltd | Verizon Sweden |
| Mrs. | Thammaiah | Shanthala | Verizon UK Ltd | Verizon UK Ltd |
| Dr. | Tsiatsis | Vlasios | Ericsson LM | Ericsson Hungary Ltd |
| Miss | Velmurugan | Harini Shree | CEWiT | CEWiT |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Miss | Wang | Lei | China Unicom | China Unicom |
| Dr. | Wang | Zhibi | InterDigital Communications | InterDigital Communications |
| Mr. | Wong | Marcus | OPPO | Guangdong OPPO Mobile Telecom. |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | Xiaomi Electronic Software |
| Mr. | Xie | Zhonghuai | China Unicom | VSENS |
| Mr. | Xing | TianQi | China Unicom | CITC |
| Mr. | Xing | Zhen | China Unicom | CUG |
| Miss | Xiong | Lihui | OPPO | Realme (Shenzhen) |
| Ms. | Yadav | Rashmi | IIT Bombay | IIT Bombay |
| Dr. | Yao | Ge | China Unicom | China Unicom |
| Mr. | You | Shilin | ZTE Corporation | ZTE Korea Limited |
| Mr. | Young | Gordon | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Dr. | Yue | Yi | China Unicom | Unicom Broadband Online |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | HiSilicon Technologies Co. Ltd |
| Ms. | Zhang | Leyi | ZTE FRANCE SASU | ZTE FRANCE SASU |
| Miss | Zhang | Weiyin | China Telecommunications | China Telecom Corporation Ltd. |
| Mr. | Zhou | Wei | CATT | CATT |
| Dr. | Zugenmaier | Alf | NTT DOCOMO INC. | NTT DOCOMO INC. |

## Annex F: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| S3-120 | 17-02-2025 | 21-02-2025 | Athens | Greece |  |
| S3-121 | 07-04-2025 | 11-04-2025 | Goteborg | Sweden |  |