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

**DRAFT Meeting Report  
for  
TSG SA WG3  
meeting: AdHoc**

**Electronic meeting, Online, 27/09/2021 to 30/09/2021**

Contents:

1 Agenda and Meeting Objectives 3

2 Meeting Reports 3

3 Reports and Liaisons from other Groups (related to Rel-17 topics in the agenda) 3

4.1 Integration of GBA into 5GC (Rel-17) 6

4.2 Mission critical security enhancements phase 2 (Rel-17) 7

4.3 User Plane Integrity Protection for LTE (Rel-17) 8

4.4 Security Aspects of Enhancements for 5G Multicast-Broadcast Services (Rel-17) 10

4.5 Security Aspects of eNPN (Rel-17) 11

4.6 Security Aspects of Enhancement of Support for Edge Computing in 5GC (Rel-17) 14

4.7 Security aspects of Uncrewed Aerial Systems (Rel-17) 17

4.8 New WIDs approved from SA#93-ProSe 20

4.9 New WIDs approved from SA#93-UC3S 22

4.10 New WIDs approved from SA#93-eNA 23

4.11 New WIDs approved from SA#93-5GMSG 26

5.1 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC 27

5.2 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS 32

5.3 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services 41

5.4 Study on enhanced security support for Non-Public Networks 46

5.5 Study on User Consent for 3GPP services 50

5.6 Study on security aspects of the 5GMSG Service 53

5.7 Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2 54

5.8 Study on Security for NR Integrated Access and Backhaul 58

5.9 Study on enhanced security for network slicing Phase 2 58

5.10 Study on non-seamless WLAN Offload in 5GS using 3GPP credentials 59

6 Any Other Business 63

Annex A: Contribution documents and status 64

A1: List of TDocs 64

A2: Tdoc decision timing 75

Annex B: List of change requests 81

Annex C: Lists of liaisons 82

C1: Incoming liaison statements 82

C2: Outgoing liaison statements 82

Annex D: List of draft Technical Specifications and Reports 83

Annex E: List of participants 84

Annex F: List of future meetings 88

Note: Minutes of the email discussions captured by the SA3 leadership are in tdoc S3-213302 (Meeting notes from SA3 leadership)

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.

## 1 Agenda and Meeting Objectives

**S3-213300 Agenda**

*Type: agenda For: (not specified)  
 Source: WG Chair*

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

**S3-213301 E-meeting procedures**

*Type: other For: (not specified)  
 Source: WG Chair*

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

## 2 Meeting Reports

**S3-213302 Meeting notes from SA3 leadership**

*Type: report For: (not specified)  
 Source: WG Chair*

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

## 3 Reports and Liaisons from other Groups (related to Rel-17 topics in the agenda)

**S3-213312 LS on UE capabilities indication in UPU**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2101072*

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

**S3-213313 Reply LS on UE capabilities indication in UPU**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-212599*

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

**S3-213314 LS on support of PWS over SNPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-210368*

**Decision:** The document was **replied to in S3-213609**.

**S3-213315 Support of UAVs authentication/authorization in 3GPP systems and interfacing with USS/UTM**

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

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

**S3-213316 Response LS on PWS Support over SNPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-214402*

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

**S3-213317 Reply LS on support of PWS over SNPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-213120*

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

**S3-213318 Reply LS on UAS terminology alignment**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-213256*

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

**S3-213319 Reply LS on Transaction Information - Dispersion Analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106637*

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

**S3-213320 Reply LS on user consent**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106638*

**Decision:** The document was **replied to in S3-213689**.

**S3-213321 Reply LS on UE capabilities indication in UPU**

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

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

**S3-213322 Reply LS on updating the Credentials Holder controlled lists for SNPN selection**

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

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

**S3-213323 LS Reply on Supporting UP Integrity Protection Policy Handling for Interworking from 5GS to EPS**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106974*

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

**S3-213324 LS on the security issue of MBS interest indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2108910*

**Decision:** The document was **replied to in S3-213623**.

**S3-213435 Discussion on UE capabilities indication in UPU**

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

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

**S3-213436 reply LS on UE capabilities indication in UPU**

*Type: LS out For: Approval  
 to SA2/CT1, cc CT4  
 Source: Huawei, HiSilicon*

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

**S3-213649 Discussion on UE capabilities indication in UPU**

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

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

**S3-213650 reply LS on UE capabilities indication in UPU**

*Type: LS out For: Approval  
 to SA2/CT1, cc CT4  
 Source: Huawei, HiSilicon*

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

**S3-213689 Reply LS on user consent**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Huawei, HiSilicon*

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

### 4.1 Integration of GBA into 5GC (Rel-17)

**S3-213327 Draft PCR to TS 33.220 Resolution of editor's note on 5G GBA roaming**

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

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

**S3-213328 Draft PCR to TS 33.223 Resolution of editor's note on 5G GBA-push roaming**

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

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

**S3-213466 Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v17.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213605**.

**S3-213467 Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn**

*Type: draftCR For: Approval  
 33.223 v17.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213606**.

**S3-213468 pCR to living document of TS 33.220: Remove EN about GBA AKA and more details**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213469 pCR to living document of TS 33.223: Remove EN about GBA AKA and more details**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213602 pCR to living document of TS 33.220: Remove EN about GBA AKA and more details**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213603 pCR to living document of TS 33.223: Remove EN about GBA AKA and more details**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213605 Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v17.1.0  
 Source: Ericsson*

(Replaces S3-213466)

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

**S3-213606 Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn**

*Type: draftCR For: Approval  
 33.223 v17.0.0  
 Source: Ericsson*

(Replaces S3-213467)

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

### 4.2 Mission critical security enhancements phase 2 (Rel-17)

**S3-213384 Address EN for UE Indication in EPS to 5GS interworking**

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

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

**S3-213482 [33.180] MCXSec over 5GS**

*Type: draftCR For: Approval  
 33.180 v17.3.0  
 Source: Ericsson, Motorola Solutions*

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

**S3-213579 [33.180] R17 Preconfigured group clarification**

*Type: draftCR For: Agreement  
 33.180 v17.3.0  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Clarify that group regroup with preconfigured group and user regroup with preconfigured group uses normal MC group security procedures.

**Decision:** The document was **revised to S3-213592**.

**S3-213592 [33.180] R17 Preconfigured group clarification**

*Type: draftCR For: Agreement  
 33.180 v17.4.0  
 Source: Motorola Solutions Danmark A/S*

(Replaces S3-213579)

**Abstract:**

Clarify that group regroup with preconfigured group and user regroup with preconfigured group uses normal MC group security procedures.

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

### 4.3 User Plane Integrity Protection for LTE (Rel-17)

**S3-213421 Address EN for how to deal with legacy node**

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

**Decision:** The document was **revised to S3-213679**.

**S3-213422 Address EN for UE indication in EE-DC**

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

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

**S3-213423 Address EN for UE indication in EN-DC**

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

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

**S3-213424 Address EN for SN selection**

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

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

**S3-213425 Address EN for issue that MME may not copy UE security capability**

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

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

**S3-213447 Living Document for UPIP on TS 33.401**

*Type: draftCR For: Agreement  
 33.401 v16.3.0  
 Source: VODAFONE Group Plc*

**Abstract:**

Living document from last meeting

**Decision:** The document was **revised to S3-213698**.

**S3-213448 living document for UPIP to TS 33.501**

*Type: draftCR For: Discussion  
 33.501 v17.2.1  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-213699**.

**S3-213486 Add details of UPIP algorithms to be supported**

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

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

**S3-213487 [DRAFT] LS on use of LTE algorithms or NR algorithms for UP integrity protection with NR PDCP**

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

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

**S3-213488 User Plane Integrity Protection Policy Handling in IW handover from EPS to 5GS**

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

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

**S3-213489 UE Capability to support UP IP with SgNB in EN-DC**

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

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

**S3-213490 UE Capability to support UP IP with SeNB in DC**

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

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

**S3-213491 UP IP: Use of LTE algorithms or NR algorithms with NR PDCP in LTE eNB connected to EPC**

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

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

**S3-213531 Security requirements for UPIP over E-UTRA**

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

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

**S3-213532 Returning security capabilities at path switch after X2-handovers**

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

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

**S3-213679 Address EN for how to deal with legacy node**

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

(Replaces S3-213421)

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

**S3-213698 Living Document for UPIP on TS 33.401**

*Type: draftCR For: Agreement  
 33.401 v16.3.0  
 Source: VODAFONE Group Plc*

(Replaces S3-213447)

**Abstract:**

Living document from last meeting

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

**S3-213699 living document for UPIP to TS 33.501**

*Type: draftCR For: Discussion  
 33.501 v17.3.0  
 Source: VODAFONE Group Plc*

(Replaces S3-213448)

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

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

**S3-213329 Add general description for 5MBS**

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

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

**S3-213330 Add some abbreviation and clean up**

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

**Decision:** The document was **revised to S3-213716**.

**S3-213716 Add some abbreviation and clean up**

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

(Replaces S3-213330)

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

**S3-213331 Security for MBS-eMBMS interworking**

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

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

**S3-213389 Add new clause for traffic protection**

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

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

**S3-213391 living doc for 5MBS WID**

*Type: draftCR For: Approval  
 33.501 v17.2.1  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213673**.

**S3-213430 Authenticaton and authorization for multicast session**

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

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

**S3-213644 Authenticaton and authorization for multicast session**

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

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

**S3-213673 living doc for 5MBS WID**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213391)

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

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

**S3-213380 Add EN for AUSF selection in SNPN**

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

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

**S3-213381 LS to SA2 on AUSF selection in SNPN**

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

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

**S3-213382 Delete SUPI in step 6 and 7**

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

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

**S3-213383 Address EN for UE Indication**

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

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

**S3-213434 EN removal of Credential Holder’s ID**

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

**Decision:** The document was **revised to S3-213661**.

**S3-213514 Removing Editor's notes in I.2.2.z**

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

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

**S3-213535 Configuration of CH credentials**

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

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

**S3-213536 Annex on EAP-TTLS**

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

**Decision:** The document was **revised to S3-213595**.

**S3-213549 Discussion on protection of UE capabilities indication in SoR and UPU**

*Type: discussion For: Endorsement  
 Source: Ericsson LM*

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

**S3-213551 Draft reply LS on UE capabilities indication in UPU**

*Type: LS out For: Approval  
 to SA2, CT1  
 Source: Ericsson LM*

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

**S3-213572 Protection for eNPN credential provisioning**

*Type: draftCR For: Approval  
 33.501 v17.2.1  
 Source: Xiaomi Technology*

**Abstract:**

Added a subclause under Annex I for protection of credentials provisioned via user plane.

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

**S3-213577 Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN**

*Type: draftCR For: Approval  
 33.501 v17.2.1  
 Source: Ericsson, Huawei, HiSilicon*

**Decision:** The document was **revised to S3-213610**.

**S3-213578 Credentials Holder using AUSF and UDM for primary authentication**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213580 Annex X on EAP\_TTLS for SNPN**

*Type: other For: Approval  
 33.501 v..  
 Source: CableLabs, Ericsson, Charter Communications, Intel, Nokia, Nokia Shanghai Bell*

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

**S3-213583 Update NSSAAF to support EAP-TTLS phase 2 authentication**

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

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

**S3-213595 Annex on EAP-TTLS**

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

(Replaces S3-213536)

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

**S3-213610 Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell*

(Replaces S3-213577)

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

**S3-213648 EN removal of Credential Holder’s ID**

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

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

**S3-213661 EN removal of Credential Holder’s ID**

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

(Replaces S3-213434)

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

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

**S3-213332 Authentication based on AKMA between EEC and ECS in clause 6.2**

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

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

**S3-213333 Authentication based on AKMA between EEC and EES in clause 6.3**

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

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

**S3-213334 Authentication based on Kamf between EEC and ECS in clause 6.2**

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

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

**S3-213335 Authentication based on Kamf between EEC and EES in clause 6.3**

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

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

**S3-213442 Adding the clause 4**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213663**.

**S3-213443 Authentication and Authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213444 Authentication and Authorization between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213445 Authentication and Authorization between EES and ECS**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213446 Authentication and Authorization in EES capability exposure**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213664**.

**S3-213459 Authentication and Authorization between EES and ECS**

*Type: pCR For: (not specified)  
 33.558 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-213484 Token-based solution for EEC authentication**

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

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

**S3-213485 Solving the EN in the requirements**

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

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

**S3-213504 Proposed text for normative: Authentication and authorization between EEC and ECS**

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

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

**S3-213505 Proposed text for normative: Authentication and authorization between EEC and EES**

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

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

**S3-213656 Adding the clause 4**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213657 Authentication and Authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213658 Authentication and Authorization between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213659 Authentication and Authorization between EES and ECS**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213660 Authentication and Authorization in EES capability exposure**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213663 Adding the clause 4**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213442)

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

**S3-213664 Authentication and Authorization in EES capability exposure**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213446)

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

**S3-213666 Draft TS 33.558 020**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-213668 Draft TS 33.558 020**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Huawei, Hisilicon*

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

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

**S3-213366 remove EN on AMF initiated re-authentication**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon, InterDigital*

**Decision:** The document was **revised to S3-213596**.

**S3-213367 UAA procedure at registration (5G)**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon, InterDigital*

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

**S3-213368 UAA procedure at PDU session establsihment (5G)**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon, InterDigital*

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

**S3-213369 Pairing authorizaiton of UAS and UAV**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon, InterDigital*

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

**S3-213370 UAA re-authentication procedure (5G)**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213597**.

**S3-213371 Revocation of UAA**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213598**.

**S3-213372 draft LS to GSMA on interfacing with USS/UTM**

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

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

**S3-213392 update to the clause 2 and 5.3.2**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213678**.

**S3-213516 Proposed text for scope and overview of UAS TS**

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

(Replaces S3-212835)

**Decision:** The document was **revised to S3-213708**.

**S3-213517 Proposed text for UUAA-MM**

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

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

**S3-213518 Proposed text for UUAA-SM**

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

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

**S3-213519 Proposed text for UUAA re-authentications**

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

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

**S3-213520 Proposed text for UUAA revocations**

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

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

**S3-213558 UUAA during Registration**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR propose to update Clause 5.2.1 to include Clause 5.2.1.2 UUAA during registration in TS 33.256.

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

**S3-213559 UUAA during PDU Session Establishment**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR propose to update Clause 5.2.1 to include Clause 5.2.1.3 UUAA during PDU Session Establishment in TS 33.256.

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

**S3-213596 Remove EN on AMF initiated re-authentication**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, Hisilicon, InterDigital*

(Replaces S3-213366)

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

**S3-213597 UUAA re-authentication procedure (5G)**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility*

(Replaces S3-213370)

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

**S3-213598 Revocation of UUAA**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility*

(Replaces S3-213371)

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

**S3-213678 update to the clause 2 and 5.3.2**

*Type: pCR For: Approval  
 33.256 v0.1.0  
 Source: Huawei, HiSilicon, InterDigital, Samsung*

(Replaces S3-213392)

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

**S3-213708 Proposed text for scope and overview of UAS TS**

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

(Replaces S3-213516)

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

**S3-213710 Draft TS 33.256**

*Type: draft TS For: Approval  
 33.256 v0.2.0  
 Source: Qualcomm CDMA Technologies*

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

### 4.8 New WIDs approved from SA#93-ProSe

**S3-213470 Skeleton of 5G ProSe draft TS**

*Type: draft TS For: Approval  
 33.503 v0.0.0  
 Source: CATT*

**Decision:** The document was **revised to S3-213638**.

**S3-213471 pCR to 5G ProSe draft TS Scope**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

**Decision:** The document was **revised to S3-213636**.

**S3-213472 pCR to 5G ProSe draft TS Clause 4-Overview**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

**Decision:** The document was **revised to S3-213637**.

**S3-213473 pCR to 5G ProSe draft TS clause 6.1-Security for 5G ProSe Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

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

**S3-213477 pCR to 5G ProSe draft TS clause 6.2-Security for Groupcast mode 5G ProSe Direct Communication**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

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

**S3-213478 pCR to 5G ProSe draft TS clause 6.3-Security for Unicast mode 5G ProSe Direct Communication**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

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

**S3-213506 Proposal for U2NW relay authentication, authorization and key management**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: Samsung*

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

**S3-213525 User-plane UE-to-network relay connection procedure**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: Qualcomm Incorporated*

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

**S3-213537 Security for 5G ProSe Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: ZTE Corporation*

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

**S3-213636 pCR to 5G ProSe draft TS Scope**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

(Replaces S3-213471)

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

**S3-213637 pCR to 5G ProSe draft TS Clause 4-Overview**

*Type: pCR For: Approval  
 33.503 v0.0.0  
 Source: CATT*

(Replaces S3-213472)

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

**S3-213638 Skeleton of 5G ProSe draft TS**

*Type: draft TS For: Approval  
 33.503 v0.0.0  
 Source: CATT*

(Replaces S3-213470)

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

**S3-213639 Draft TS 33.503 v0.1.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS)**

*Type: draft TS For: Approval  
 33.503 v0.1.0  
 Source: CATT*

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

### 4.9 New WIDs approved from SA#93-UC3S

**S3-213401 Living CR for UC3S in TS 33.501**

*Type: draftCR For: Approval  
 33.501 v17.2.1  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213680**.

**S3-213402 User consent related requirements**

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

**Decision:** The document was **revised to S3-213681**.

**S3-213403 Requirements on User Consent**

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

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

**S3-213404 Nudm\_SDM\_Get service operation used for user consent check**

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

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

**S3-213405 Nudm\_SDM\_Subscribe service operation used for notification**

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

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

**S3-213406 General for Generic Requirements for adapting procedures related to user consent**

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

**Decision:** The document was **revised to S3-213682**.

**S3-213407 User consent check for Generic Requirements for adapting procedures related to user consent**

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

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

**S3-213408 User consent revocation for Generic Requirements for adapting procedures related to user consent**

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

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

**S3-213680 Living CR for UC3S in TS 33.501**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213401)

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

**S3-213681 User consent related requirements**

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

(Replaces S3-213402)

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

**S3-213682 General for Generic Requirements for adapting procedures related to user consent**

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

(Replaces S3-213406)

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

### 4.10 New WIDs approved from SA#93-eNA

**S3-213373 Security aspects of eNA\_living document**

*Type: draftCR For: Approval  
 33.501 v17.2.1  
 Source: China mobile*

**Decision:** The document was **revised to S3-213707**.

**S3-213707 Security aspects of eNA\_living document**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: China mobile*

(Replaces S3-213373)

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

**S3-213374 Add general description to Annex X**

*Type: other For: Approval  
 Source: China mobile*

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

**S3-213375 Add details to X.3**

*Type: other For: Approval  
 Source: China mobile*

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

**S3-213376 add content for annex X.1 General**

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

**Decision:** The document was **revised to S3-213676**.

**S3-213377 add content for annex X.3 Protection of data transferred between AF and NWDAF**

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

**Decision:** The document was **revised to S3-213674**.

**S3-213378 add content for annex X.4 Protection of UE data in transit between NFs**

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

**Decision:** The document was **revised to S3-213675**.

**S3-213481 Authorization of NF Service Consumers to access data via DCCF**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213500 Authorization mechanisms for data consumer to access data from data producer via DCCF**

*Type: other For: (not specified)  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility*

**Abstract:**

Approval

**Decision:** The document was **revised to S3-213614**.

**S3-213501 Modifications in the access token procedures to implement the conclusions of KI 1.3 of TR 33.866**

*Type: other For: (not specified)  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility*

**Abstract:**

Approval

**Decision:** The document was **revised to S3-213618**.

**S3-213614 Authorization mechanisms for data consumer to access data from data producer via DCCF**

*Type: other For: (not specified)  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility*

(Replaces S3-213500)

**Abstract:**

Approval

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

**S3-213618 Modifications in the access token procedures to implement the conclusions of KI 1.3 of TR 33.866**

*Type: other For: (not specified)  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility*

(Replaces S3-213501)

**Abstract:**

Approval

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

**S3-213674 add content for annex X.3 Protection of data transferred between AF and NWDAF**

*Type: other For: Approval  
 33.501 v..  
 Source: Huawei, Hisilicon, China Mobile*

(Replaces S3-213377)

**Decision:** The document was **revised to S3-213717**.

**S3-213717 add content for annex X.3 Protection of data transferred between AF and NWDAF**

*Type: other For: Approval  
 33.501 v..  
 Source: Huawei, Hisilicon, China Mobile*

(Replaces S3-213674)

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

**S3-213675 add content for annex X.4 Protection of UE data in transit between NFs**

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

(Replaces S3-213378)

**Decision:** The document was **revised to S3-213718**.

**S3-213718 add content for annex X.4 Protection of UE data in transit between NFs**

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

(Replaces S3-213675)

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

**S3-213676 add content for annex X.1 General**

*Type: other For: Approval  
 33.501 v..  
 Source: Huawei, Hisilicon, China Mobile*

(Replaces S3-213376)

**Decision:** The document was **revised to S3-213719**.

**S3-213719 add content for annex X.1 General**

*Type: other For: Approval  
 33.501 v..  
 Source: Huawei, Hisilicon, China Mobile*

(Replaces S3-213676)

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

### 4.11 New WIDs approved from SA#93-5GMSG

**S3-213456 Living document for 5GMSG\_SEC**

*Type: draftCR For: Approval  
 33.501 v17.2.1  
 Source: China Mobile*

**Decision:** The document was **revised to S3-213705**.

**S3-213458 Change request to living document Transport security protection for MSGin5G interfaces**

*Type: other For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-213703**.

**S3-213703 Change request to living document Transport security protection for MSGin5G interfaces**

*Type: other For: Approval  
 Source: China Mobile*

(Replaces S3-213458)

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

**S3-213705 Living document for 5GMSG\_SEC**

*Type: other For: Approval  
 Source: China Mobile*

(Replaces S3-213456)

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

### 5.1 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-213336 Conclusion on key issue 1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213337 Conclusion on key issue 2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213352 pCR TR 33.839: solution #29**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: THALES*

**Abstract:**

Solution #29

**Decision:** The document was **revised to S3-213631**.

**S3-213353 pCR TR 33.839: conclusion for KI#1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: THALES*

**Abstract:**

Conclusion for Key Issue #1

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

**S3-213354 pCR TR 33.839: conclusion for KI#2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: THALES*

**Abstract:**

Conclusion for Key Issue #3

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

**S3-213357 MEC- Adding evaluation of solution#11**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

**Decision:** The document was **revised to S3-213626**.

**S3-213358 MEC- Adding evaluation of solution#16**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

**Decision:** The document was **revised to S3-213627**.

**S3-213359 MEC- Adding evaluation of solution#23**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

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

**S3-213360 MEC- Adding evaluation of solution#29**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

**Decision:** The document was **revised to S3-213628**.

**S3-213437 Discussion paper on A&A between EEC and ECS/EES**

*Type: pCR For: Endorsement  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213438 Conclusion on Key issue #1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon, Ericsson*

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

**S3-213439 Conclusion on Key issue #2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon, Ericsson*

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

**S3-213440 Revision on the conclusion for KI#8**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213662**.

**S3-213441 Adding the clause 4**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213450 Conclusion of Key issue 1**

*Type: pCR For: (not specified)  
 33.839 v0.7.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-213483 A new AKMA-based solution for EC**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213632**.

**S3-213502 [EDGE] Conclusion for KI#1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Samsung*

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

**S3-213503 [EDGE] Conclusion for KI#2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Samsung*

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

**S3-213521 Enhancing TLS with GBA usage for Edge**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-213709**.

**S3-213522 Proposed conclusions for key issue #1 and key issue #2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Qualcomm Incorporated*

(Replaces S3-212849)

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

**S3-213584 Conclusion KI1&2 for Edge Computing**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-213624**.

**S3-213624 Conclusion KI1&2 for Edge Computing**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-213584)

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

**S3-213626 MEC- Adding evaluation of solution#11**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

(Replaces S3-213357)

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

**S3-213627 MEC- Adding evaluation of solution#16**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

(Replaces S3-213358)

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

**S3-213628 MEC- Adding evaluation of solution#29**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

(Replaces S3-213360)

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

**S3-213631 pCR TR 33.839: solution #29**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: THALES*

(Replaces S3-213352)

**Abstract:**

Solution #29

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

**S3-213632 A new AKMA-based solution for EC**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Ericsson*

(Replaces S3-213483)

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

**S3-213651 Discussion paper on A&A between EEC and ECS/EES**

*Type: pCR For: Endorsement  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213652 Conclusion on Key issue #1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon, Ericsson*

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

**S3-213653 Conclusion on Key issue #2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon, Ericsson*

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

**S3-213654 Revision on the conclusion for KI#8**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213655 Adding the clause 4**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213662 Revision on the conclusion for KI#8**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213440)

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

**S3-213665 Draft TR 33.839 080**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213667 Draft TR 33.839 080**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: Huawei, Hisilicon*

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

**S3-213709 Enhancing TLS with GBA usage for Edge**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Qualcomm Incorporated*

(Replaces S3-213521)

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

### 5.2 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS

**S3-213303 TR 33.847 - cumulative changes**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution provides cumulative editorial changes to TR 33.847.

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

**S3-213304 Evaluation for sol#34**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to S3-213715**.

**S3-213715 Evaluation for sol#34**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: LG Electronics Inc.*

(Replaces S3-213304)

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

**S3-213305 Conclusion for secondary authentication**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: LG Electronics Inc.*

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

**S3-213308 TR 33.847 sol#10 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-213691**.

**S3-213309 TR 33.847 sol#24 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-213692**.

**S3-213310 TR 33.847 sol#25 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-213693**.

**S3-213311 TR 33.847 sol#34 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

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

**S3-213325 Updates to conclusions for key issue #2**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: MITRE Corporation*

**Abstract:**

Updates to conclusion for KI#2 to include public safety discovery scenario.

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

**S3-213326 Updates to solution #37**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: MITRE Corporation*

**Abstract:**

This contribution updates the figure and evaluation in Solution #37 to include either PCF or ProSe App Server provisioning in step 0.

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

**S3-213355 Analysis for PC5 root key anchor function selection for CP based approach**

*Type: discussion For: Discussion  
 33.847 v..  
 Source: InterDigital, Europe, Ltd.*

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

**S3-213356 TR 33.847 Update Conclusions for L3 U2N relay**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-213694**.

**S3-213395 Add a new solution to address KI#17**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213396 Update to Conclusion #3 and #4**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213677**.

**S3-213397 Update to Sol #38**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213398 Update to conclusion KI#12**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213399 Update to conclusion KI#13**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213400 Add content to the unicast mode 5G ProSe Direct Communication**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon, KPN*

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

**S3-213460 Evaluation of Solution #22: Representation of identities during broadcast**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: KPN N.V.*

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

**S3-213461 Conclusion on Key Issue #11: UE identity protection during ProSe discovery**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: KPN N.V.*

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

**S3-213462 ProSe: Update to solution #21 regarding AV request when Remote UE is out of 3GPP coverage**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Ericsson*

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

**S3-213463 Update to solution #29**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Ericsson*

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

**S3-213465 pCR to TR33.847- Conclusions of KI#14 and KI#15**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: CATT*

**Decision:** The document was **revised to S3-213634**.

**S3-213507 [ProSe] Resolving EN from solution#1**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-213593**.

**S3-213523 Conclusion for KI #3**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated, Ericsson*

**Decision:** The document was **revised to S3-213696**.

**S3-213524 Update to Solution #34**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-213526 Update of conclusion of security and privacy of groupcast communication**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-213527 Conclusion of privacy protection of PDU session-related parameters for relaying**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-213528 A new solution for privacy enhancements during PC5 link setup for UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-213630**.

**S3-213546 Update in Solution #4**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Philips International B.V.*

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

**S3-213547 Update in Solution #37**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Philips International B.V.*

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

**S3-213553 Update in Conclusions KI#2**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Philips International B.V.*

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

**S3-213554 Improved LTE security mechanism for 5G ProSe restricted discovery to ensure source authentication in out of coverage use cases**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-213701**.

**S3-213560 ProSe: Update to Solution #14**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to update solution #14 in TR 33.847.

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

**S3-213561 ProSe: Update to Solution #22**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology, KPN*

**Abstract:**

This pCR proposes to update solution #22 in current version of TR 33.847 and add evaluation for the solution.

**Decision:** The document was **revised to S3-213619**.

**S3-213562 ProSe: Evaluation for Solution #40**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to resolve the editor’s notes by replacing them with the same statement: “Further enhancements can be discussed and added during normative phase”. Upon the resolution of the editor’s note, the pCR also proposes the evaluation for solutio

**Decision:** The document was **revised to S3-213620**.

**S3-213563 ProSe: Conclusion Update for L3 U2N Relay**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to make a conclusion on the corresponding requirement in key issue #3 based on solution #41.

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

**S3-213564 ProSe: Conclusion Update for L2 U2N Relay**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR is proposed to update the conclusion on L2 U2N relay in key issue #3.

**Decision:** The document was **revised to S3-213621**.

**S3-213565 ProSe: Conclusion for Key Issue #11**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to conclude for key issue #11 that the existing mechanisms in TS 23.304 already support the requirements of key issue #11 and no additional normative work is needed.

**Decision:** The document was **revised to S3-213622**.

**S3-213566 ProSe: Conclusion for Key Issue #13**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to make a conclusion for key issues #13 in TR 33.847.

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

**S3-213567 ProSe: Conclusion for Key Issue #14**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to make a conclusion for key issue #14 in TR 33.847 that no normative work is required in this release.

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

**S3-213568 ProSe: Conclusion for Key Issue #15**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to make a conclusion for key issue #15 in TR 33.847 that no normative work is required in this release.

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

**S3-213569 ProSe: Conclusion for Key Issue #17**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to make a conclusion for key issue #17 in TR 33.847 based on solution #40.

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

**S3-213586 [Draft] LS to SA2 regarding key issue #16 in TR 33.847**

*Type: LS out For: Approval  
 to SA WG2  
 Source: Philips International B.V.*

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

**S3-213587 Conclusion for KI#16**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Philips International B.V.*

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

**S3-213588 Minor clarification to solution #32**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Philips International B.V.*

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

**S3-213589 Adding evaluation to solution #32 regarding key issues #5 and #11**

*Type: pCR For: (not specified)  
 33.847 v0.7.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-213613**.

**S3-213593 [ProSe] Resolving EN from solution#1**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Samsung*

(Replaces S3-213507)

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

**S3-213613 Adding evaluation to solution #32 regarding key issues #5 and #11**

*Type: pCR For: (not specified)  
 33.847 v0.7.0  
 Source: Philips International B.V.*

(Replaces S3-213589)

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

**S3-213619 ProSe: Update to Solution #22**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology, KPN*

(Replaces S3-213561)

**Abstract:**

This pCR proposes to update solution #22 in current version of TR 33.847 and add evaluation for the solution.

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

**S3-213620 ProSe: Evaluation for Solution #40**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-213562)

**Abstract:**

This pCR proposes to resolve the editor’s notes by replacing them with the same statement: “Further enhancements can be discussed and added during normative phase”. Upon the resolution of the editor’s note, the pCR also proposes the evaluation for solutio

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

**S3-213621 ProSe: Conclusion Update for L2 U2N Relay**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-213564)

**Abstract:**

This pCR is proposed to update the conclusion on L2 U2N relay in key issue #3.

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

**S3-213622 ProSe: Conclusion for Key Issue #11**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-213565)

**Abstract:**

This pCR proposes to conclude for key issue #11 that the existing mechanisms in TS 23.304 already support the requirements of key issue #11 and no additional normative work is needed.

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

**S3-213630 A new solution for privacy enhancements during PC5 link setup for UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated*

(Replaces S3-213528)

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

**S3-213634 pCR to TR33.847- Conclusions of KI#14 and KI#15**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: CATT*

(Replaces S3-213465)

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

**S3-213635 TR 33.847 v0.8.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS**

*Type: draft TR For: Approval  
 33.847 v0.8.0  
 Source: CATT*

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

**S3-213677 Update to Conclusion #3 and #4**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Huawei, Hisilicon, Xiaomi*

(Replaces S3-213396)

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

**S3-213691 TR 33.847 sol#10 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-213308)

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

**S3-213692 TR 33.847 sol#24 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-213309)

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

**S3-213693 TR 33.847 sol#25 evaluation**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-213310)

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

**S3-213694 TR 33.847 Update Conclusions for L3 U2N relay**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-213356)

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

**S3-213696 Conclusion for KI #3**

*Type: pCR For: Approval  
 33.847 v0.7.0  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces S3-213523)

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

**S3-213701 Improved LTE security mechanism for 5G ProSe restricted discovery to ensure source authentication in out of coverage use cases**

*Type: pCR For: (not specified)  
 33.847 v0.7.0  
 Source: Philips International B.V.*

(Replaces S3-213554)

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

### 5.3 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-213338 Conclusion for the key issue 1**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213339 Conclusion for the key issue 3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213340 Update the solution #6**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213386 Discussion paper on MBS traffic protection**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213387 Update to conclusion on key issue#2**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213671**.

**S3-213388 Conclusion on key issue#3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213672**.

**S3-213390 Reply LS on the security issue of MBS interest indication**

*Type: LS out For: Approval  
 to RAN2  
 Source: Huawei, Hisilicon*

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

**S3-213426 New key issue on unauthorized MBS operation**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213427 New solution to unauthorized MBS operation**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213428 Conclusion to the key issue on unauthorized MBS operation**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213429 Evaluation to solution #10**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213431 Update to solution #3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213432 Update to solution #11**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213509 Conclusion for MBS security**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Samsung*

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

**S3-213529 Update to Solution #12**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-213697**.

**S3-213530 Conclusion on KI #1,2 and 3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-213542 Update in Solution#9**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-213700**.

**S3-213544 Conclusions KI#3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Philips International B.V.*

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

**S3-213570 Reply LS for the security issue of MBS interest indication**

*Type: LS out For: Approval  
 to RAN2  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-213623**.

**S3-213581 MBS: Update to Evaluation of Solution #1**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes additional evaluation for solution #1, stating that it assumes the UEs within the multicast group all support the encryption and integrity algorithms selected by the RAN.

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

**S3-213582 MBS: Update to Evaluation of Solution #2**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes additional evaluation for solution #1, stating that it assumes the UEs within the multicast group all support the encryption and integrity algorithms selected by the MBSF-C.

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

**S3-213623 Reply LS for the security issue of MBS interest indication**

*Type: LS out For: Approval  
 to RAN2  
 Source: Xiaomi Technology*

(Replaces S3-213570)

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

**S3-213633 TR 33.850 for MBS security**

*Type: draft TR For: (not specified)  
 33.850 v0.8.0  
 Source: Huawei, Hisilicon*

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

**S3-213640 New key issue on unauthorized MBS operation**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213641 New solution to unauthorized MBS operation**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213642 Conclusion to the key issue on unauthorized MBS operation**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213643 Evaluation to solution #10**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213645 Update to solution #3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213646 Update to solution #11**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213671 Update to conclusion on key issue#2**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213387)

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

**S3-213672 Conclusion on key issue#3**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213388)

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

**S3-213697 Update to Solution #12**

*Type: pCR For: Approval  
 33.850 v0.7.0  
 Source: Qualcomm Incorporated*

(Replaces S3-213529)

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

**S3-213700 Update in Solution#9**

*Type: pCR For: (not specified)  
 33.850 v0.7.0  
 Source: Philips International B.V.*

(Replaces S3-213542)

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

### 5.4 Study on enhanced security support for Non-Public Networks

**S3-213306 New solution for UE onboarding**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: LG Electronics Inc.*

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

**S3-213307 Conclusion for KI#4**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: LG Electronics Inc.*

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

**S3-213341 Conclusion on Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213342 Evaluation of Solution #20**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213343 Evaluation of Solution #21**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: ZTE Corporation*

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

**S3-213348 pCR TR 33.857: conclusion for Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: THALES*

**Abstract:**

Conclusion for Key Issue #2

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

**S3-213379 Conclusion for Key Issue #1**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-213449 Conclusions for KI#4**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Alibaba Group*

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

**S3-213452 Proposal for conclusion for Key Issue 4**

*Type: pCR For: (not specified)  
 33.857 v0.7.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-213457 Conclusions for KI#2**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Alibaba Group*

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

**S3-213474 Proposal for a solution to KI#4**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-213608**.

**S3-213475 Conclusions for KI#4 (initial access)**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-213476 Reply to LS on support of PWS over SNPN**

*Type: LS out For: Approval  
 to SA1, cc SA2, CT1, RAN2, RAN3, SA, CT, RAN  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-213609**.

**S3-213513 conclusion on MSK indication for KI #1**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: CableLabs*

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

**S3-213533 eNPN: Evaluation of Solution #5**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-213534 pCR: Conclusion for Key Derivation Indication in KI#1**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-213556 Update to Solution #23**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides an update to solution 23 in TR 33.857.

**Decision:** The document was **revised to S3-213625**.

**S3-213557 Solution for PNI-NPN Credential Provisioning using Secured Packet Retrieval Procedure**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides a solution to Key Issue # 2 in TR 33.857 addressing PNI-NPN credential provisioning aspects.

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

**S3-213571 eNPN: Conclusion for Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to make a conclusion on key issue #2 of TR 33.857, including the conclusion on the requirement of confidentiality, integrity and anti-replay protection for credentials provisioning

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

**S3-213575 Conclusions for KI#2 on secure provisioning of PNI-NPN credentials**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Ericsson*

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

**S3-213576 Conclusions for KI#4 (initial access)**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Ericsson, Huawei, InterDigital, Lenovo, Motorola Mobility, Qualcomm Incorporated*

**Decision:** The document was **revised to S3-213611**.

**S3-213585 Conclusion to KI#4**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides the conclusion to KI#4 in TR 33.857.

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

**S3-213608 Proposal for a solution to KI#4**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213474)

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

**S3-213609 Reply to LS on support of PWS over SNPN**

*Type: LS out For: Approval  
 to SA1, cc SA2, CT1, RAN2, RAN3, SA, CT, RAN  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213476)

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

**S3-213611 Conclusions for KI#4 (initial access)**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Ericsson, Huawei, InterDigital, Lenovo, Motorola Mobility, Qualcomm Incorporated, Thales, LGE, Nokia, Nokia Shanghai Bell*

(Replaces S3-213576)

**Discussion:**

The Chair declared this document as working agreement and the sustained objection from Intel was recorded.

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

**S3-213612 draft TR 33.857 v0.8.0**

*Type: draft TR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

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

**S3-213625 Update to Solution #23**

*Type: pCR For: Approval  
 33.857 v0.7.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-213556)

**Abstract:**

This pCR provides an update to solution 23 in TR 33.857.

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

### 5.5 Study on User Consent for 3GPP services

**S3-213344 Concept of User Consent**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: China Unicom, Huawei, HiSilicon*

**Decision:** The document was **revised to S3-213695**.

**S3-213361 UC3S-Update of solution#6**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Apple*

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

**S3-213409 Common Architecture**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-213410 Common Architecture**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213687**.

**S3-213411 Address Editor's Note/clean up**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213688**.

**S3-213412 New solution for naming of purposes**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

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

**S3-213413 Address EN and add evaluation for solution 3**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

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

**S3-213414 Address EN and add evaluation for solution 4**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213683**.

**S3-213415 Address EN and add evaluation for solution 6**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

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

**S3-213416 Conclusion for Key Issue #1**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

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

**S3-213417 Update on Conclusion for UDM service for User Consent Service**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213684**.

**S3-213418 Conclusion for Key Issue #5**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

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

**S3-213419 Update on Conclusion for KI#2 and KI#3**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213685**.

**S3-213420 Update on General Conclusion for Procedure for User Consent Check**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213686**.

**S3-213510 Solution on user's consent for exposure of information to Edge Applications**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Samsung*

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

**S3-213511 Conclusion for EDGE user consent**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Samsung*

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

**S3-213512 Solution on Retrieving User's consent for exposure of information to the Edge Applications from UDM**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-213594**.

**S3-213515 Action upon revocation of consent**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213690**.

**S3-213594 Solution on Retrieving User's consent for exposure of information to the Edge Applications from UDM**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Samsung*

(Replaces S3-213512)

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

**S3-213669 Draft TR33.867**

*Type: draft TR For: (not specified)  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213683 Address EN and add evaluation for solution 4**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213414)

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

**S3-213684 Update on Conclusion for UDM service for User Consent Service**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213417)

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

**S3-213685 Update on Conclusion for KI#2 and KI#3**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213419)

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

**S3-213686 Update on General Conclusion for Procedure for User Consent Check**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213420)

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

**S3-213687 Common Architecture**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213410)

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

**S3-213688 Address Editor's Note/clean up**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213411)

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

**S3-213690 Action upon revocation of consent**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: Ericsson*

(Replaces S3-213515)

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

**S3-213695 Concept of User Consent**

*Type: pCR For: Approval  
 33.867 v0.6.0  
 Source: China Unicom, Huawei, HiSilicon*

(Replaces S3-213344)

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

### 5.6 Study on security aspects of the 5GMSG Service

**S3-213453 Add conclusion to KI#2**

*Type: pCR For: Approval  
 33.862 v0.6.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-213702**.

**S3-213454 Add conclusion to KI#3**

*Type: pCR For: Approval  
 33.862 v0.6.0  
 Source: China Mobile*

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

**S3-213455 Add conclusion to KI#4**

*Type: pCR For: Approval  
 33.862 v0.6.0  
 Source: China Mobile*

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

**S3-213508 Conclusion to KI#2**

*Type: pCR For: Approval  
 33.862 v0.6.0  
 Source: Samsung*

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

**S3-213702 Add conclusion to KI#2**

*Type: pCR For: Approval  
 33.862 v0.6.0  
 Source: China Mobile*

(Replaces S3-213453)

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

**S3-213704 draftTR 33.862 v0.7.0**

*Type: draft TR For: Approval  
 33.862 v0.7.0  
 Source: China Mobile*

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

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

**S3-213433 Conclusion to KI#1.4**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-213479 Conclusion for KI1.4**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213713**.

**S3-213713 Conclusion for KI1.4**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Ericsson, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-213479)

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

**S3-213480 Evaluation of Solution 5**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213714**.

**S3-213714 Evaluation of Solution 5**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Ericsson, Lenovo, Motorola Mobility*

(Replaces S3-213480)

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

**S3-213492 Ed Note Removal for Solution 11**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

**Decision:** The document was **revised to S3-213616**.

**S3-213493 Ed Note Removal for Solution 10**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

**Decision:** The document was **revised to S3-213617**.

**S3-213494 Updates to conclusion of KI 1.3**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

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

**S3-213495 Enhancement to the Solution 7**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

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

**S3-213496 Evaluation to the Solution 5**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

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

**S3-213497 Conclusion to KI 1.4**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

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

**S3-213498 LS on NF Service Producer Meta Data Addition in ADRF**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

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

**S3-213499 Conclusion to KI 2.2**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Approval

**Decision:** The document was **revised to S3-213615**.

**S3-213538 Conclusions to KI 1.4**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Lenovo, Motorola Mobility*

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

**S3-213539 Adding Evaluation to Solution#5**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Lenovo, Motorola Mobility*

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

**S3-213615 Conclusion to KI 2.2**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213499)

**Abstract:**

Approval

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

**S3-213616 Ed Note Removal for Solution 11**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213492)

**Abstract:**

Approval

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

**S3-213617 Ed Note Removal for Solution 10**

*Type: pCR For: (not specified)  
 33.866 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213493)

**Abstract:**

Approval

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

**S3-213647 Conclusion to KI#1.4**

*Type: pCR For: Approval  
 33.866 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-213706 draft TR 33.866 v0.7.0**

*Type: draft TR For: Approval  
 33.866 v0.7.0  
 Source: China Mobile*

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

### 5.8 Study on Security for NR Integrated Access and Backhaul

**S3-213385 Reply LS on support of Pre-shared key derivation for IAB-donor-CU-UP**

*Type: LS out For: Approval  
 to RAN3  
 Source: Huawei, Hisilicon*

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

**S3-213464 IAB: Discussion on security of BH link**

*Type: discussion For: Endorsement  
 33.824 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213629**.

**S3-213629 IAB: Discussion on security of BH link**

*Type: discussion For: Endorsement  
 33.824 v..  
 Source: Ericsson*

(Replaces S3-213464)

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

### 5.9 Study on enhanced security for network slicing Phase 2

**S3-213362 update to KI#1 (NSSAI analysis)**

*Type: pCR For: Approval  
 33.874 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213599**.

**S3-213363 AF services**

*Type: pCR For: Approval  
 33.874 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213600**.

**S3-213364 evaluation of solution 1**

*Type: pCR For: Approval  
 33.874 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213601**.

**S3-213365 proposed conclusion to KI# 3**

*Type: pCR For: Approval  
 33.874 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-213573 eNS2: Key Issue #1 update**

*Type: pCR For: Approval  
 33.874 v0.3.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR is proposed to update the privacy issue on broadcasting slice information in key issue #1 of TR 33.874.

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

**S3-213574 eNS2: Key Issue #2 update**

*Type: pCR For: Approval  
 33.874 v0.3.0  
 Source: Xiaomi Technology*

**Abstract:**

This pCR proposes to update key issue #2 in the current version of TR 33.874.

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

**S3-213599 Update to KI#1 (NSSAI analysis)**

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

(Replaces S3-213362)

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

**S3-213600 AF services**

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

(Replaces S3-213363)

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

**S3-213601 Evaluation of solution 1**

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

(Replaces S3-213364)

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

**S3-213604 draft TR 33.874-040**

*Type: draft TR For: (not specified)  
 33.874 v0.4.0  
 Source: Huawei, HiSilicon*

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

### 5.10 Study on non-seamless WLAN Offload in 5GS using 3GPP credentials

**S3-213345 Editor note removal and update to solution#1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporation*

**Decision:** The document was **revised to S3-213590**.

**S3-213346 Conclusion for key issue#1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporated, Lenovo, Motorola Mobility, Huawei, HiSilicon,Samsung*

**Decision:** The document was **revised to S3-213591**.

**S3-213347 New WID on Non-Seamless WLAN offload Authentication in 5GS**

*Type: WID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-213349 pCR TR 33.881: solution #1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: THALES*

**Abstract:**

Solution #1

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

**S3-213350 pCR TR 33.881: solution #2**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: THALES*

**Abstract:**

Solution #2

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

**S3-213351 pCR TR 33.881: solution #3**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: THALES*

**Abstract:**

Solution #3

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

**S3-213393 A new key issue on Protection of the 5GS authentication infrastructure**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Huawei, Hisilicon*

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

**S3-213394 Update solution#1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-213670**.

**S3-213451 Updates to solution 1**

*Type: pCR For: (not specified)  
 33.881 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-213540 Adding Evaluation to Solution#2**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Lenovo, Motorola Mobility*

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

**S3-213541 Adding Evaluation to Solution#3**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Lenovo, Motorola Mobility*

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

**S3-213543 Evaluation of Solution #1 (Non-Seamless WLAN offload Authentiation in 5GS)**

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

**Decision:** The document was **revised to S3-213712**.

**S3-213545 Evaluation of Solution #2 (NSWO authentication using credentials retrieved from UDM/ARPF)**

*Type: pCR For: (not specified)  
 33.881 v0.2.0  
 Source: Ericsson*

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

**S3-213548 Evaluation of Solution #3 (NSWO authentication using credentials retrieved from UDM/ARPF via HSS)**

*Type: pCR For: (not specified)  
 33.881 v0.2.0  
 Source: Ericsson*

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

**S3-213550 Update of Solution #2 (NSWO authentication using credentials retrieved from UDM/ARPF)**

*Type: pCR For: (not specified)  
 33.881 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-213711**.

**S3-213552 Conclusion of Key Issue #1 (Support of EAP-AKA’ authentication for NSWO) part 1**

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

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

**S3-213555 Conclusion for Key Issue #1 (Support of EAP-AKA’ authentication for NSWO) with SUPI privacy part 2**

*Type: pCR For: (not specified)  
 33.881 v0.2.0  
 Source: Ericsson*

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

**S3-213590 Editor note removal and update to solution#1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporation*

(Replaces S3-213345)

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

**S3-213591 Conclusion for key issue#1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporated, Lenovo, Motorola Mobility, Huawei, HiSilicon, Samsung, Ericsson, Intel corporation*

(Replaces S3-213346)

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

**S3-213607 draft TR 33.881**

*Type: draft TR For: (not specified)  
 33.881 v0.3.0  
 Source: Nokia Germany*

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

**S3-213670 Update solution#1**

*Type: pCR For: Approval  
 33.881 v0.2.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213394)

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

**S3-213711 Update of Solution #2 (NSWO authentication using credentials retrieved from UDM/ARPF)**

*Type: pCR For: (not specified)  
 33.881 v0.2.0  
 Source: Ericsson*

(Replaces S3-213550)

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

**S3-213712 Evaluation of Solution #1 (Non-Seamless WLAN offload Authentiation in 5GS)**

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

(Replaces S3-213543)

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

## 6 Any Other Business

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-213300 | Agenda | WG Chair | approved |  |  |
| S3-213301 | E-meeting procedures | WG Chair | noted |  |  |
| S3-213302 | Meeting notes from SA3 leadership | WG Chair | noted |  |  |
| S3-213303 | TR 33.847 - cumulative changes | InterDigital, Inc. | approved |  | - |
| S3-213304 | Evaluation for sol#34 | LG Electronics Inc. | revised |  | S3-213715 |
| S3-213305 | Conclusion for secondary authentication | LG Electronics Inc. | noted |  |  |
| S3-213306 | New solution for UE onboarding | LG Electronics Inc. | noted |  |  |
| S3-213307 | Conclusion for KI#4 | LG Electronics Inc. | merged |  | S3-213611 |
| S3-213308 | TR 33.847 sol#10 evaluation | InterDigital, Europe, Ltd. | revised |  | S3-213691 |
| S3-213309 | TR 33.847 sol#24 evaluation | InterDigital, Europe, Ltd. | revised |  | S3-213692 |
| S3-213310 | TR 33.847 sol#25 evaluation | InterDigital, Europe, Ltd. | revised |  | S3-213693 |
| S3-213311 | TR 33.847 sol#34 evaluation | InterDigital, Europe, Ltd. | noted |  |  |
| S3-213312 | LS on UE capabilities indication in UPU | S2-2101072 | postponed |  |  |
| S3-213313 | Reply LS on UE capabilities indication in UPU | C1-212599 | postponed |  |  |
| S3-213314 | LS on support of PWS over SNPN | S1-210368 | replied to |  |  |
| S3-213315 | Support of UAVs authentication/authorization in 3GPP systems and interfacing with USS/UTM | GSMA | noted |  |  |
| S3-213316 | Response LS on PWS Support over SNPN | R3-214402 | noted |  |  |
| S3-213317 | Reply LS on support of PWS over SNPN | S1-213120 | noted |  |  |
| S3-213318 | Reply LS on UAS terminology alignment | S1-213256 | noted |  |  |
| S3-213319 | Reply LS on Transaction Information - Dispersion Analytics | S2-2106637 | noted |  |  |
| S3-213320 | Reply LS on user consent | S2-2106638 | replied to |  |  |
| S3-213321 | Reply LS on UE capabilities indication in UPU | S2-2106703 | postponed |  |  |
| S3-213322 | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | postponed |  |  |
| S3-213323 | LS Reply on Supporting UP Integrity Protection Policy Handling for Interworking from 5GS to EPS | S2-2106974 | noted |  |  |
| S3-213324 | LS on the security issue of MBS interest indication | R2-2108910 | replied to |  |  |
| S3-213325 | Updates to conclusions for key issue #2 | MITRE Corporation | noted |  |  |
| S3-213326 | Updates to solution #37 | MITRE Corporation | approved |  |  |
| S3-213327 | Draft PCR to TS 33.220 Resolution of editor's note on 5G GBA roaming | ZTE Corporation | noted |  |  |
| S3-213328 | Draft PCR to TS 33.223 Resolution of editor's note on 5G GBA-push roaming | ZTE Corporation | noted |  |  |
| S3-213329 | Add general description for 5MBS | ZTE Corporation | approved |  |  |
| S3-213330 | Add some abbreviation and clean up | ZTE Corporation | revised |  | S3-213716 |
| S3-213331 | Security for MBS-eMBMS interworking | ZTE Corporation | noted |  |  |
| S3-213332 | Authentication based on AKMA between EEC and ECS in clause 6.2 | ZTE Corporation | noted |  |  |
| S3-213333 | Authentication based on AKMA between EEC and EES in clause 6.3 | ZTE Corporation | noted |  |  |
| S3-213334 | Authentication based on Kamf between EEC and ECS in clause 6.2 | ZTE Corporation | noted |  |  |
| S3-213335 | Authentication based on Kamf between EEC and EES in clause 6.3 | ZTE Corporation | noted |  |  |
| S3-213336 | Conclusion on key issue 1 | ZTE Corporation | noted |  |  |
| S3-213337 | Conclusion on key issue 2 | ZTE Corporation | noted |  |  |
| S3-213338 | Conclusion for the key issue 1 | ZTE Corporation | noted |  |  |
| S3-213339 | Conclusion for the key issue 3 | ZTE Corporation | noted |  |  |
| S3-213340 | Update the solution #6 | ZTE Corporation | noted |  |  |
| S3-213341 | Conclusion on Key Issue #2 | ZTE Corporation | noted |  |  |
| S3-213342 | Evaluation of Solution #20 | ZTE Corporation | noted |  |  |
| S3-213343 | Evaluation of Solution #21 | ZTE Corporation | noted |  |  |
| S3-213344 | Concept of User Consent | China Unicom, Huawei, HiSilicon | revised |  | S3-213695 |
| S3-213345 | Editor note removal and update to solution#1 | Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporation | revised |  | S3-213590 |
| S3-213346 | Conclusion for key issue#1 | Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporated, Lenovo, Motorola Mobility, Huawei, HiSilicon,Samsung | revised |  | S3-213591 |
| S3-213347 | New WID on Non-Seamless WLAN offload Authentication in 5GS | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-213348 | pCR TR 33.857: conclusion for Key Issue #2 | THALES | noted |  |  |
| S3-213349 | pCR TR 33.881: solution #1 | THALES | approved |  |  |
| S3-213350 | pCR TR 33.881: solution #2 | THALES | approved |  |  |
| S3-213351 | pCR TR 33.881: solution #3 | THALES | approved |  |  |
| S3-213352 | pCR TR 33.839: solution #29 | THALES | revised |  | S3-213631 |
| S3-213353 | pCR TR 33.839: conclusion for KI#1 | THALES | noted |  |  |
| S3-213354 | pCR TR 33.839: conclusion for KI#2 | THALES | noted |  |  |
| S3-213355 | Analysis for PC5 root key anchor function selection for CP based approach | InterDigital, Europe, Ltd. | noted |  |  |
| S3-213356 | TR 33.847 Update Conclusions for L3 U2N relay | InterDigital, Europe, Ltd. | revised |  | S3-213694 |
| S3-213357 | MEC- Adding evaluation of solution#11 | Apple | revised |  | S3-213626 |
| S3-213358 | MEC- Adding evaluation of solution#16 | Apple | revised |  | S3-213627 |
| S3-213359 | MEC- Adding evaluation of solution#23 | Apple | noted |  |  |
| S3-213360 | MEC- Adding evaluation of solution#29 | Apple | revised |  | S3-213628 |
| S3-213361 | UC3S-Update of solution#6 | Apple | noted |  |  |
| S3-213362 | update to KI#1 (NSSAI analysis) | Huawei, Hisilicon | revised |  | S3-213599 |
| S3-213363 | AF services | Huawei, Hisilicon | revised |  | S3-213600 |
| S3-213364 | evaluation of solution 1 | Huawei, Hisilicon | revised |  | S3-213601 |
| S3-213365 | proposed conclusion to KI# 3 | Huawei, Hisilicon | noted |  |  |
| S3-213366 | remove EN on AMF initiated re-authentication | Huawei, Hisilicon, InterDigital | revised |  | S3-213596 |
| S3-213367 | UAA procedure at registration (5G) | Huawei, Hisilicon, InterDigital | noted |  |  |
| S3-213368 | UAA procedure at PDU session establsihment (5G) | Huawei, Hisilicon, InterDigital | noted |  |  |
| S3-213369 | Pairing authorizaiton of UAS and UAV | Huawei, Hisilicon, InterDigital | noted |  |  |
| S3-213370 | UAA re-authentication procedure (5G) | Huawei, Hisilicon | revised |  | S3-213597 |
| S3-213371 | Revocation of UAA | Huawei, Hisilicon | revised |  | S3-213598 |
| S3-213372 | draft LS to GSMA on interfacing with USS/UTM | Huawei, Hisilicon | noted |  |  |
| S3-213373 | Security aspects of eNA\_living document | China mobile | revised |  | S3-213707 |
| S3-213374 | Add general description to Annex X | China mobile | merged |  | S3-213676 |
| S3-213375 | Add details to X.3 | China mobile | merged |  | S3-213674 |
| S3-213376 | add content for annex X.1 General | Huawei, Hisilicon | revised |  | S3-213676 |
| S3-213377 | add content for annex X.3 Protection of data transferred between AF and NWDAF | Huawei, Hisilicon | revised |  | S3-213674 |
| S3-213378 | add content for annex X.4 Protection of UE data in transit between NFs | Huawei, Hisilicon | revised |  | S3-213675 |
| S3-213379 | Conclusion for Key Issue #1 | Huawei, Hisilicon | noted |  |  |
| S3-213380 | Add EN for AUSF selection in SNPN | Huawei, Hisilicon | approved |  |  |
| S3-213381 | LS to SA2 on AUSF selection in SNPN | Huawei, Hisilicon | noted |  |  |
| S3-213382 | Delete SUPI in step 6 and 7 | Huawei, Hisilicon | noted |  |  |
| S3-213383 | Address EN for UE Indication | Huawei, Hisilicon | withdrawn |  |  |
| S3-213384 | Address EN for UE Indication in EPS to 5GS interworking | Huawei, Hisilicon | withdrawn |  |  |
| S3-213385 | Reply LS on support of Pre-shared key derivation for IAB-donor-CU-UP | Huawei, Hisilicon | withdrawn |  |  |
| S3-213386 | Discussion paper on MBS traffic protection | Huawei, Hisilicon | noted |  |  |
| S3-213387 | Update to conclusion on key issue#2 | Huawei, Hisilicon | revised |  | S3-213671 |
| S3-213388 | Conclusion on key issue#3 | Huawei, Hisilicon | revised |  | S3-213672 |
| S3-213389 | Add new clause for traffic protection | Huawei, Hisilicon | approved |  |  |
| S3-213390 | Reply LS on the security issue of MBS interest indication | Huawei, Hisilicon | merged |  | S3-213623 |
| S3-213391 | living doc for 5MBS WID | Huawei, Hisilicon | revised |  | S3-213673 |
| S3-213392 | update to the clause 2 and 5.3.2 | Huawei, Hisilicon | revised |  | S3-213678 |
| S3-213393 | A new key issue on Protection of the 5GS authentication infrastructure | Huawei, Hisilicon | noted |  |  |
| S3-213394 | Update solution#1 | Huawei, Hisilicon | revised |  | S3-213670 |
| S3-213395 | Add a new solution to address KI#17 | Huawei, Hisilicon | noted |  |  |
| S3-213396 | Update to Conclusion #3 and #4 | Huawei, Hisilicon | revised |  | S3-213677 |
| S3-213397 | Update to Sol #38 | Huawei, Hisilicon | noted |  |  |
| S3-213398 | Update to conclusion KI#12 | Huawei, Hisilicon | noted |  |  |
| S3-213399 | Update to conclusion KI#13 | Huawei, Hisilicon | noted |  |  |
| S3-213400 | Add content to the unicast mode 5G ProSe Direct Communication | Huawei, Hisilicon, KPN | noted |  |  |
| S3-213401 | Living CR for UC3S in TS 33.501 | Huawei, Hisilicon | revised |  | S3-213680 |
| S3-213402 | User consent related requirements | Huawei, Hisilicon | revised |  | S3-213681 |
| S3-213403 | Requirements on User Consent | Huawei, Hisilicon | noted |  |  |
| S3-213404 | Nudm\_SDM\_Get service operation used for user consent check | Huawei, Hisilicon | noted |  |  |
| S3-213405 | Nudm\_SDM\_Subscribe service operation used for notification | Huawei, Hisilicon | noted |  |  |
| S3-213406 | General for Generic Requirements for adapting procedures related to user consent | Huawei, Hisilicon | revised |  | S3-213682 |
| S3-213407 | User consent check for Generic Requirements for adapting procedures related to user consent | Huawei, Hisilicon | noted |  |  |
| S3-213408 | User consent revocation for Generic Requirements for adapting procedures related to user consent | Huawei, Hisilicon | noted |  |  |
| S3-213409 | Common Architecture | Huawei, HiSilicon | withdrawn |  |  |
| S3-213410 | Common Architecture | Huawei, Hisilicon | revised |  | S3-213687 |
| S3-213411 | Address Editor's Note/clean up | Huawei, Hisilicon | revised |  | S3-213688 |
| S3-213412 | New solution for naming of purposes | Huawei, Hisilicon | noted |  |  |
| S3-213413 | Address EN and add evaluation for solution 3 | Huawei, Hisilicon | approved |  |  |
| S3-213414 | Address EN and add evaluation for solution 4 | Huawei, Hisilicon | revised |  | S3-213683 |
| S3-213415 | Address EN and add evaluation for solution 6 | Huawei, Hisilicon | noted |  |  |
| S3-213416 | Conclusion for Key Issue #1 | Huawei, Hisilicon | noted |  |  |
| S3-213417 | Update on Conclusion for UDM service for User Consent Service | Huawei, Hisilicon | revised |  | S3-213684 |
| S3-213418 | Conclusion for Key Issue #5 | Huawei, Hisilicon | noted |  |  |
| S3-213419 | Update on Conclusion for KI#2 and KI#3 | Huawei, Hisilicon | revised |  | S3-213685 |
| S3-213420 | Update on General Conclusion for Procedure for User Consent Check | Huawei, Hisilicon | revised |  | S3-213686 |
| S3-213421 | Address EN for how to deal with legacy node | Huawei, Hisilicon | revised |  | S3-213679 |
| S3-213422 | Address EN for UE indication in EE-DC | Huawei, Hisilicon | noted |  |  |
| S3-213423 | Address EN for UE indication in EN-DC | Huawei, Hisilicon | withdrawn |  |  |
| S3-213424 | Address EN for SN selection | Huawei, Hisilicon | withdrawn |  |  |
| S3-213425 | Address EN for issue that MME may not copy UE security capability | Huawei, Hisilicon | noted |  |  |
| S3-213426 | New key issue on unauthorized MBS operation | Huawei, HiSilicon | noted |  |  |
| S3-213427 | New solution to unauthorized MBS operation | Huawei, HiSilicon | noted |  |  |
| S3-213428 | Conclusion to the key issue on unauthorized MBS operation | Huawei, HiSilicon | noted |  |  |
| S3-213429 | Evaluation to solution #10 | Huawei, HiSilicon | approved |  |  |
| S3-213430 | Authenticaton and authorization for multicast session | Huawei, HiSilicon | noted |  |  |
| S3-213431 | Update to solution #3 | Huawei, HiSilicon | approved |  |  |
| S3-213432 | Update to solution #11 | Huawei, HiSilicon | approved |  |  |
| S3-213433 | Conclusion to KI#1.4 | Huawei, HiSilicon | merged |  | S3-213713 |
| S3-213434 | EN removal of Credential Holder’s ID | Huawei, HiSilicon | revised |  | S3-213661 |
| S3-213435 | Discussion on UE capabilities indication in UPU | Huawei, HiSilicon | noted |  |  |
| S3-213436 | reply LS on UE capabilities indication in UPU | Huawei, HiSilicon | noted |  |  |
| S3-213437 | Discussion paper on A&A between EEC and ECS/EES | Huawei, Hisilicon | noted |  |  |
| S3-213438 | Conclusion on Key issue #1 | Huawei, Hisilicon, Ericsson | noted |  |  |
| S3-213439 | Conclusion on Key issue #2 | Huawei, Hisilicon, Ericsson | noted |  |  |
| S3-213440 | Revision on the conclusion for KI#8 | Huawei, Hisilicon | revised |  | S3-213662 |
| S3-213441 | Adding the clause 4 | Huawei, Hisilicon | approved |  |  |
| S3-213442 | Adding the clause 4 | Huawei, Hisilicon | revised |  | S3-213663 |
| S3-213443 | Authentication and Authorization between EEC and ECS | Huawei, Hisilicon | noted |  |  |
| S3-213444 | Authentication and Authorization between EEC and EES | Huawei, Hisilicon | noted |  |  |
| S3-213445 | Authentication and Authorization between EES and ECS | Huawei, Hisilicon | noted |  |  |
| S3-213446 | Authentication and Authorization in EES capability exposure | Huawei, Hisilicon | revised |  | S3-213664 |
| S3-213447 | Living Document for UPIP on TS 33.401 | VODAFONE Group Plc | revised |  | S3-213698 |
| S3-213448 | living document for UPIP to TS 33.501 | VODAFONE Group Plc | revised |  | S3-213699 |
| S3-213449 | Conclusions for KI#4 | Alibaba Group | noted |  |  |
| S3-213450 | Conclusion of Key issue 1 | Intel Corporation (UK) Ltd | noted |  |  |
| S3-213451 | Updates to solution 1 | Intel Corporation (UK) Ltd | approved |  |  |
| S3-213452 | Proposal for conclusion for Key Issue 4 | Intel Corporation (UK) Ltd | noted |  |  |
| S3-213453 | Add conclusion to KI#2 | China Mobile | revised |  | S3-213702 |
| S3-213454 | Add conclusion to KI#3 | China Mobile | approved |  |  |
| S3-213455 | Add conclusion to KI#4 | China Mobile | approved |  |  |
| S3-213456 | Living document for 5GMSG\_SEC | China Mobile | revised |  | S3-213705 |
| S3-213457 | Conclusions for KI#2 | Alibaba Group | noted |  |  |
| S3-213458 | Change request to living document Transport security protection for MSGin5G interfaces | China Mobile | revised |  | S3-213703 |
| S3-213459 | Authentication and Authorization between EES and ECS | Intel Corporation (UK) Ltd | noted |  |  |
| S3-213460 | Evaluation of Solution #22: Representation of identities during broadcast | KPN N.V. | noted |  |  |
| S3-213461 | Conclusion on Key Issue #11: UE identity protection during ProSe discovery | KPN N.V. | noted |  |  |
| S3-213462 | ProSe: Update to solution #21 regarding AV request when Remote UE is out of 3GPP coverage | Ericsson | noted |  |  |
| S3-213463 | Update to solution #29 | Ericsson | noted |  |  |
| S3-213464 | IAB: Discussion on security of BH link | Ericsson | revised |  | S3-213629 |
| S3-213465 | pCR to TR33.847- Conclusions of KI#14 and KI#15 | CATT | revised |  | S3-213634 |
| S3-213466 | Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | revised |  | S3-213605 |
| S3-213467 | Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn | Ericsson | revised |  | S3-213606 |
| S3-213468 | pCR to living document of TS 33.220: Remove EN about GBA AKA and more details | Ericsson | approved |  | - |
| S3-213469 | pCR to living document of TS 33.223: Remove EN about GBA AKA and more details | Ericsson | approved |  | - |
| S3-213470 | Skeleton of 5G ProSe draft TS | CATT | revised |  | S3-213638 |
| S3-213471 | pCR to 5G ProSe draft TS Scope | CATT | revised |  | S3-213636 |
| S3-213472 | pCR to 5G ProSe draft TS Clause 4-Overview | CATT | revised |  | S3-213637 |
| S3-213473 | pCR to 5G ProSe draft TS clause 6.1-Security for 5G ProSe Direct Discovery | CATT | noted |  |  |
| S3-213474 | Proposal for a solution to KI#4 | Nokia, Nokia Shanghai Bell | revised |  | S3-213608 |
| S3-213475 | Conclusions for KI#4 (initial access) | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213476 | Reply to LS on support of PWS over SNPN | Nokia, Nokia Shanghai Bell | revised |  | S3-213609 |
| S3-213477 | pCR to 5G ProSe draft TS clause 6.2-Security for Groupcast mode 5G ProSe Direct Communication | CATT | noted |  |  |
| S3-213478 | pCR to 5G ProSe draft TS clause 6.3-Security for Unicast mode 5G ProSe Direct Communication | CATT | noted |  |  |
| S3-213479 | Conclusion for KI1.4 | Ericsson | revised |  | S3-213713 |
| S3-213480 | Evaluation of Solution 5 | Ericsson | revised |  | S3-213714 |
| S3-213481 | Authorization of NF Service Consumers to access data via DCCF | Ericsson | noted |  |  |
| S3-213482 | [33.180] MCXSec over 5GS | Ericsson, Motorola Solutions | approved |  |  |
| S3-213483 | A new AKMA-based solution for EC | Ericsson | revised |  | S3-213632 |
| S3-213484 | Token-based solution for EEC authentication | Ericsson | noted |  |  |
| S3-213485 | Solving the EN in the requirements | Ericsson | noted |  |  |
| S3-213486 | Add details of UPIP algorithms to be supported | Ericsson | noted |  |  |
| S3-213487 | [DRAFT] LS on use of LTE algorithms or NR algorithms for UP integrity protection with NR PDCP | Ericsson | noted |  |  |
| S3-213488 | User Plane Integrity Protection Policy Handling in IW handover from EPS to 5GS | Ericsson | approved |  |  |
| S3-213489 | UE Capability to support UP IP with SgNB in EN-DC | Ericsson | noted |  |  |
| S3-213490 | UE Capability to support UP IP with SeNB in DC | Ericsson | noted |  |  |
| S3-213491 | UP IP: Use of LTE algorithms or NR algorithms with NR PDCP in LTE eNB connected to EPC | Ericsson | noted |  |  |
| S3-213492 | Ed Note Removal for Solution 11 | Nokia, Nokia Shanghai Bell | revised |  | S3-213616 |
| S3-213493 | Ed Note Removal for Solution 10 | Nokia, Nokia Shanghai Bell | revised |  | S3-213617 |
| S3-213494 | Updates to conclusion of KI 1.3 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213495 | Enhancement to the Solution 7 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-213496 | Evaluation to the Solution 5 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213497 | Conclusion to KI 1.4 | Nokia, Nokia Shanghai Bell | merged |  | S3-213713 |
| S3-213498 | LS on NF Service Producer Meta Data Addition in ADRF | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213499 | Conclusion to KI 2.2 | Nokia, Nokia Shanghai Bell | revised |  | S3-213615 |
| S3-213500 | Authorization mechanisms for data consumer to access data from data producer via DCCF | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | revised |  | S3-213614 |
| S3-213501 | Modifications in the access token procedures to implement the conclusions of KI 1.3 of TR 33.866 | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | revised |  | S3-213618 |
| S3-213502 | [EDGE] Conclusion for KI#1 | Samsung | noted |  |  |
| S3-213503 | [EDGE] Conclusion for KI#2 | Samsung | noted |  |  |
| S3-213504 | Proposed text for normative: Authentication and authorization between EEC and ECS | Samsung | noted |  |  |
| S3-213505 | Proposed text for normative: Authentication and authorization between EEC and EES | Samsung | noted |  |  |
| S3-213506 | Proposal for U2NW relay authentication, authorization and key management | Samsung | noted |  |  |
| S3-213507 | [ProSe] Resolving EN from solution#1 | Samsung | revised |  | S3-213593 |
| S3-213508 | Conclusion to KI#2 | Samsung | noted |  |  |
| S3-213509 | Conclusion for MBS security | Samsung | noted |  |  |
| S3-213510 | Solution on user's consent for exposure of information to Edge Applications | Samsung | noted |  |  |
| S3-213511 | Conclusion for EDGE user consent | Samsung | noted |  |  |
| S3-213512 | Solution on Retrieving User's consent for exposure of information to the Edge Applications from UDM | Samsung | revised |  | S3-213594 |
| S3-213513 | conclusion on MSK indication for KI #1 | CableLabs | noted |  |  |
| S3-213514 | Removing Editor's notes in I.2.2.z | Ericsson LM | noted |  |  |
| S3-213515 | Action upon revocation of consent | Ericsson | revised |  | S3-213690 |
| S3-213516 | Proposed text for scope and overview of UAS TS | Qualcomm Incorporated | revised | S3-212835 | S3-213708 |
| S3-213517 | Proposed text for UUAA-MM | Qualcomm Incorporated | noted |  |  |
| S3-213518 | Proposed text for UUAA-SM | Qualcomm Incorporated | noted |  |  |
| S3-213519 | Proposed text for UUAA re-authentications | Qualcomm Incorporated | merged |  | S3-213597 |
| S3-213520 | Proposed text for UUAA revocations | Qualcomm Incorporated | merged |  | S3-213598 |
| S3-213521 | Enhancing TLS with GBA usage for Edge | Qualcomm Incorporated | revised |  | S3-213709 |
| S3-213522 | Proposed conclusions for key issue #1 and key issue #2 | Qualcomm Incorporated | noted | S3-212849 |  |
| S3-213523 | Conclusion for KI #3 | Qualcomm Incorporated, Ericsson | revised |  | S3-213696 |
| S3-213524 | Update to Solution #34 | Qualcomm Incorporated | approved |  |  |
| S3-213525 | User-plane UE-to-network relay connection procedure | Qualcomm Incorporated | noted |  |  |
| S3-213526 | Update of conclusion of security and privacy of groupcast communication | Qualcomm Incorporated | noted |  |  |
| S3-213527 | Conclusion of privacy protection of PDU session-related parameters for relaying | Qualcomm Incorporated | noted |  |  |
| S3-213528 | A new solution for privacy enhancements during PC5 link setup for UE-to-Network relay | Qualcomm Incorporated | revised |  | S3-213630 |
| S3-213529 | Update to Solution #12 | Qualcomm Incorporated | revised |  | S3-213697 |
| S3-213530 | Conclusion on KI #1,2 and 3 | Qualcomm Incorporated | noted |  |  |
| S3-213531 | Security requirements for UPIP over E-UTRA | Qualcomm Incorporated | noted |  |  |
| S3-213532 | Returning security capabilities at path switch after X2-handovers | Qualcomm Incorporated | noted |  |  |
| S3-213533 | eNPN: Evaluation of Solution #5 | Qualcomm Incorporated | noted |  |  |
| S3-213534 | pCR: Conclusion for Key Derivation Indication in KI#1 | Qualcomm Incorporated | noted |  |  |
| S3-213535 | Configuration of CH credentials | Qualcomm Incorporated | noted |  |  |
| S3-213536 | Annex on EAP-TTLS | Qualcomm Incorporated | revised |  | S3-213595 |
| S3-213537 | Security for 5G ProSe Direct Discovery | ZTE Corporation | noted |  |  |
| S3-213538 | Conclusions to KI 1.4 | Lenovo, Motorola Mobility | merged |  | S3-213713 |
| S3-213539 | Adding Evaluation to Solution#5 | Lenovo, Motorola Mobility | merged |  | S3-213714 |
| S3-213540 | Adding Evaluation to Solution#2 | Lenovo, Motorola Mobility | noted |  |  |
| S3-213541 | Adding Evaluation to Solution#3 | Lenovo, Motorola Mobility | noted |  |  |
| S3-213542 | Update in Solution#9 | Philips International B.V. | revised |  | S3-213700 |
| S3-213543 | Evaluation of Solution #1 (Non-Seamless WLAN offload Authentiation in 5GS) | Ericsson | revised |  | S3-213712 |
| S3-213544 | Conclusions KI#3 | Philips International B.V. | noted |  |  |
| S3-213545 | Evaluation of Solution #2 (NSWO authentication using credentials retrieved from UDM/ARPF) | Ericsson | approved |  |  |
| S3-213546 | Update in Solution #4 | Philips International B.V. | noted |  |  |
| S3-213547 | Update in Solution #37 | Philips International B.V. | noted |  |  |
| S3-213548 | Evaluation of Solution #3 (NSWO authentication using credentials retrieved from UDM/ARPF via HSS) | Ericsson | approved |  |  |
| S3-213549 | Discussion on protection of UE capabilities indication in SoR and UPU | Ericsson LM | noted |  |  |
| S3-213550 | Update of Solution #2 (NSWO authentication using credentials retrieved from UDM/ARPF) | Ericsson | revised |  | S3-213711 |
| S3-213551 | Draft reply LS on UE capabilities indication in UPU | Ericsson LM | noted |  |  |
| S3-213552 | Conclusion of Key Issue #1 (Support of EAP-AKA’ authentication for NSWO) part 1 | Ericsson | noted |  |  |
| S3-213553 | Update in Conclusions KI#2 | Philips International B.V. | noted |  |  |
| S3-213554 | Improved LTE security mechanism for 5G ProSe restricted discovery to ensure source authentication in out of coverage use cases | Philips International B.V. | revised |  | S3-213701 |
| S3-213555 | Conclusion for Key Issue #1 (Support of EAP-AKA’ authentication for NSWO) with SUPI privacy part 2 | Ericsson | noted |  |  |
| S3-213556 | Update to Solution #23 | Lenovo, Motorola Mobility | revised |  | S3-213625 |
| S3-213557 | Solution for PNI-NPN Credential Provisioning using Secured Packet Retrieval Procedure | Lenovo, Motorola Mobility | noted |  |  |
| S3-213558 | UUAA during Registration | Lenovo, Motorola Mobility | noted |  |  |
| S3-213559 | UUAA during PDU Session Establishment | Lenovo, Motorola Mobility | noted |  |  |
| S3-213560 | ProSe: Update to Solution #14 | Xiaomi Technology | approved |  |  |
| S3-213561 | ProSe: Update to Solution #22 | Xiaomi Technology, KPN | revised |  | S3-213619 |
| S3-213562 | ProSe: Evaluation for Solution #40 | Xiaomi Technology | revised |  | S3-213620 |
| S3-213563 | ProSe: Conclusion Update for L3 U2N Relay | Xiaomi Technology | merged |  | S3-213677 |
| S3-213564 | ProSe: Conclusion Update for L2 U2N Relay | Xiaomi Technology | revised |  | S3-213621 |
| S3-213565 | ProSe: Conclusion for Key Issue #11 | Xiaomi Technology | revised |  | S3-213622 |
| S3-213566 | ProSe: Conclusion for Key Issue #13 | Xiaomi Technology | noted |  |  |
| S3-213567 | ProSe: Conclusion for Key Issue #14 | Xiaomi Technology | merged |  | S3-213634 |
| S3-213568 | ProSe: Conclusion for Key Issue #15 | Xiaomi Technology | merged |  | S3-213634 |
| S3-213569 | ProSe: Conclusion for Key Issue #17 | Xiaomi Technology | noted |  |  |
| S3-213570 | Reply LS for the security issue of MBS interest indication | Xiaomi Technology | revised |  | S3-213623 |
| S3-213571 | eNPN: Conclusion for Key Issue #2 | Xiaomi Technology | noted |  |  |
| S3-213572 | Protection for eNPN credential provisioning | Xiaomi Technology | noted |  |  |
| S3-213573 | eNS2: Key Issue #1 update | Xiaomi Technology | merged |  | S3-213599 |
| S3-213574 | eNS2: Key Issue #2 update | Xiaomi Technology | noted |  |  |
| S3-213575 | Conclusions for KI#2 on secure provisioning of PNI-NPN credentials | Ericsson | noted |  |  |
| S3-213576 | Conclusions for KI#4 (initial access) | Ericsson, Huawei, InterDigital, Lenovo, Motorola Mobility, Qualcomm Incorporated | revised |  | S3-213611 |
| S3-213577 | Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN | Ericsson, Huawei, HiSilicon | revised |  | S3-213610 |
| S3-213578 | Credentials Holder using AUSF and UDM for primary authentication | Ericsson | approved |  |  |
| S3-213579 | [33.180] R17 Preconfigured group clarification | Motorola Solutions Danmark A/S | revised |  | S3-213592 |
| S3-213580 | Annex X on EAP\_TTLS for SNPN | CableLabs, Ericsson, Charter Communications, Intel, Nokia, Nokia Shanghai Bell | merged |  | S3-213595 |
| S3-213581 | MBS: Update to Evaluation of Solution #1 | Xiaomi Technology | approved |  |  |
| S3-213582 | MBS: Update to Evaluation of Solution #2 | Xiaomi Technology | approved |  |  |
| S3-213583 | Update NSSAAF to support EAP-TTLS phase 2 authentication | CableLabs | noted |  |  |
| S3-213584 | Conclusion KI1&2 for Edge Computing | NTT DOCOMO INC. | revised |  | S3-213624 |
| S3-213585 | Conclusion to KI#4 | Lenovo, Motorola Mobility | merged |  | S3-213611 |
| S3-213586 | [Draft] LS to SA2 regarding key issue #16 in TR 33.847 | Philips International B.V. | noted |  |  |
| S3-213587 | Conclusion for KI#16 | Philips International B.V. | noted |  |  |
| S3-213588 | Minor clarification to solution #32 | Philips International B.V. | approved |  |  |
| S3-213589 | Adding evaluation to solution #32 regarding key issues #5 and #11 | Philips International B.V. | revised |  | S3-213613 |
| S3-213590 | Editor note removal and update to solution#1 | Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporation | approved | S3-213345 |  |
| S3-213591 | Conclusion for key issue#1 | Nokia, Nokia Shanghai Bell, AT&T, Qualcomm Incorporated, Lenovo, Motorola Mobility, Huawei, HiSilicon, Samsung, Ericsson, Intel corporation | approved | S3-213346 |  |
| S3-213592 | [33.180] R17 Preconfigured group clarification | Motorola Solutions Danmark A/S | approved | S3-213579 |  |
| S3-213593 | [ProSe] Resolving EN from solution#1 | Samsung | approved | S3-213507 |  |
| S3-213594 | Solution on Retrieving User's consent for exposure of information to the Edge Applications from UDM | Samsung | approved | S3-213512 |  |
| S3-213595 | Annex on EAP-TTLS | Qualcomm Incorporated, CableLabs | approved | S3-213536 |  |
| S3-213596 | Remove EN on AMF initiated re-authentication | Huawei, Hisilicon, InterDigital | approved | S3-213366 |  |
| S3-213597 | UUAA re-authentication procedure (5G) | Huawei, HiSilicon, Lenovo, Motorola Mobility | approved | S3-213370 |  |
| S3-213598 | Revocation of UUAA | Huawei, HiSilicon, Lenovo, Motorola Mobility | approved | S3-213371 |  |
| S3-213599 | Update to KI#1 (NSSAI analysis) | Huawei, HiSilicon, Xiaomi | approved | S3-213362 |  |
| S3-213600 | AF services | Huawei, HiSilicon | approved | S3-213363 |  |
| S3-213601 | Evaluation of solution 1 | Huawei, HiSilicon | approved | S3-213364 |  |
| S3-213602 | pCR to living document of TS 33.220: Remove EN about GBA AKA and more details | Ericsson | withdrawn | - |  |
| S3-213603 | pCR to living document of TS 33.223: Remove EN about GBA AKA and more details | Ericsson | withdrawn | - |  |
| S3-213604 | draft TR 33.874-040 | Huawei, HiSilicon | approved |  |  |
| S3-213605 | Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | approved | S3-213466 |  |
| S3-213606 | Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn | Ericsson | approved | S3-213467 |  |
| S3-213607 | draft TR 33.881 | Nokia Germany | approved |  |  |
| S3-213608 | Proposal for a solution to KI#4 | Nokia, Nokia Shanghai Bell | approved | S3-213474 |  |
| S3-213609 | Reply to LS on support of PWS over SNPN | Nokia, Nokia Shanghai Bell | approved | S3-213476 |  |
| S3-213610 | Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN | Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell | approved | S3-213577 |  |
| S3-213611 | Conclusions for KI#4 (initial access) | Ericsson, Huawei, InterDigital, Lenovo, Motorola Mobility, Qualcomm Incorporated, Thales, LGE, Nokia, Nokia Shanghai Bell | agreed | S3-213576 |  |
| S3-213612 | draft TR 33.857 v0.8.0 | Ericsson | approved |  |  |
| S3-213613 | Adding evaluation to solution #32 regarding key issues #5 and #11 | Philips International B.V. | approved | S3-213589 |  |
| S3-213614 | Authorization mechanisms for data consumer to access data from data producer via DCCF | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | approved | S3-213500 |  |
| S3-213615 | Conclusion to KI 2.2 | Nokia, Nokia Shanghai Bell | approved | S3-213499 |  |
| S3-213616 | Ed Note Removal for Solution 11 | Nokia, Nokia Shanghai Bell | approved | S3-213492 |  |
| S3-213617 | Ed Note Removal for Solution 10 | Nokia, Nokia Shanghai Bell | approved | S3-213493 |  |
| S3-213618 | Modifications in the access token procedures to implement the conclusions of KI 1.3 of TR 33.866 | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | approved | S3-213501 |  |
| S3-213619 | ProSe: Update to Solution #22 | Xiaomi Technology, KPN | approved | S3-213561 |  |
| S3-213620 | ProSe: Evaluation for Solution #40 | Xiaomi Technology | approved | S3-213562 |  |
| S3-213621 | ProSe: Conclusion Update for L2 U2N Relay | Xiaomi Technology | approved | S3-213564 |  |
| S3-213622 | ProSe: Conclusion for Key Issue #11 | Xiaomi Technology | approved | S3-213565 |  |
| S3-213623 | Reply LS for the security issue of MBS interest indication | Xiaomi Technology | approved | S3-213570 |  |
| S3-213624 | Conclusion KI1&2 for Edge Computing | NTT DOCOMO INC. | approved | S3-213584 |  |
| S3-213625 | Update to Solution #23 | Lenovo, Motorola Mobility | approved | S3-213556 |  |
| S3-213626 | MEC- Adding evaluation of solution#11 | Apple | approved | S3-213357 |  |
| S3-213627 | MEC- Adding evaluation of solution#16 | Apple | approved | S3-213358 |  |
| S3-213628 | MEC- Adding evaluation of solution#29 | Apple | approved | S3-213360 |  |
| S3-213629 | IAB: Discussion on security of BH link | Ericsson | endorsed | S3-213464 |  |
| S3-213630 | A new solution for privacy enhancements during PC5 link setup for UE-to-Network relay | Qualcomm Incorporated | approved | S3-213528 |  |
| S3-213631 | pCR TR 33.839: solution #29 | THALES | approved | S3-213352 |  |
| S3-213632 | A new AKMA-based solution for EC | Ericsson | approved | S3-213483 |  |
| S3-213633 | TR 33.850 for MBS security | Huawei, Hisilicon | approved |  |  |
| S3-213634 | pCR to TR33.847- Conclusions of KI#14 and KI#15 | CATT | approved | S3-213465 |  |
| S3-213635 | TR 33.847 v0.8.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS | CATT | approved |  |  |
| S3-213636 | pCR to 5G ProSe draft TS Scope | CATT | approved | S3-213471 |  |
| S3-213637 | pCR to 5G ProSe draft TS Clause 4-Overview | CATT | approved | S3-213472 |  |
| S3-213638 | Skeleton of 5G ProSe draft TS | CATT | approved | S3-213470 |  |
| S3-213639 | Draft TS 33.503 v0.1.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) | CATT | approved |  |  |
| S3-213640 | New key issue on unauthorized MBS operation | Huawei, HiSilicon | withdrawn |  |  |
| S3-213641 | New solution to unauthorized MBS operation | Huawei, HiSilicon | withdrawn |  |  |
| S3-213642 | Conclusion to the key issue on unauthorized MBS operation | Huawei, HiSilicon | withdrawn |  |  |
| S3-213643 | Evaluation to solution #10 | Huawei, HiSilicon | withdrawn |  |  |
| S3-213644 | Authenticaton and authorization for multicast session | Huawei, HiSilicon | withdrawn |  |  |
| S3-213645 | Update to solution #3 | Huawei, HiSilicon | withdrawn |  |  |
| S3-213646 | Update to solution #11 | Huawei, HiSilicon | withdrawn |  |  |
| S3-213647 | Conclusion to KI#1.4 | Huawei, HiSilicon | withdrawn |  |  |
| S3-213648 | EN removal of Credential Holder’s ID | Huawei, HiSilicon | withdrawn |  |  |
| S3-213649 | Discussion on UE capabilities indication in UPU | Huawei, HiSilicon | withdrawn |  |  |
| S3-213650 | reply LS on UE capabilities indication in UPU | Huawei, HiSilicon | withdrawn |  |  |
| S3-213651 | Discussion paper on A&A between EEC and ECS/EES | Huawei, Hisilicon | withdrawn |  |  |
| S3-213652 | Conclusion on Key issue #1 | Huawei, Hisilicon, Ericsson | withdrawn |  |  |
| S3-213653 | Conclusion on Key issue #2 | Huawei, Hisilicon, Ericsson | withdrawn |  |  |
| S3-213654 | Revision on the conclusion for KI#8 | Huawei, Hisilicon | withdrawn |  |  |
| S3-213655 | Adding the clause 4 | Huawei, Hisilicon | withdrawn |  |  |
| S3-213656 | Adding the clause 4 | Huawei, Hisilicon | withdrawn |  |  |
| S3-213657 | Authentication and Authorization between EEC and ECS | Huawei, Hisilicon | withdrawn |  |  |
| S3-213658 | Authentication and Authorization between EEC and EES | Huawei, Hisilicon | withdrawn |  |  |
| S3-213659 | Authentication and Authorization between EES and ECS | Huawei, Hisilicon | withdrawn |  |  |
| S3-213660 | Authentication and Authorization in EES capability exposure | Huawei, Hisilicon | withdrawn |  |  |
| S3-213661 | EN removal of Credential Holder’s ID | Huawei, HiSilicon | approved | S3-213434 |  |
| S3-213662 | Revision on the conclusion for KI#8 | Huawei, Hisilicon | approved | S3-213440 |  |
| S3-213663 | Adding the clause 4 | Huawei, Hisilicon | approved | S3-213442 |  |
| S3-213664 | Authentication and Authorization in EES capability exposure | Huawei, Hisilicon | approved | S3-213446 |  |
| S3-213665 | Draft TR 33.839 080 | Huawei, Hisilicon | withdrawn | - |  |
| S3-213666 | Draft TS 33.558 020 | Huawei, Hisilicon | withdrawn | - |  |
| S3-213667 | Draft TR 33.839 080 | Huawei, Hisilicon | approved |  |  |
| S3-213668 | Draft TS 33.558 020 | Huawei, Hisilicon | approved |  |  |
| S3-213669 | Draft TR33.867 | Huawei, HiSilicon | approved |  |  |
| S3-213670 | Update solution#1 | Huawei, Hisilicon | approved | S3-213394 |  |
| S3-213671 | Update to conclusion on key issue#2 | Huawei, Hisilicon | approved | S3-213387 |  |
| S3-213672 | Conclusion on key issue#3 | Huawei, Hisilicon | approved | S3-213388 |  |
| S3-213673 | living doc for 5MBS WID | Huawei, Hisilicon | approved | S3-213391 |  |
| S3-213674 | add content for annex X.3 Protection of data transferred between AF and NWDAF | Huawei, Hisilicon, China Mobile | revised | S3-213377 | S3-213717 |
| S3-213675 | add content for annex X.4 Protection of UE data in transit between NFs | Huawei, Hisilicon | revised | S3-213378 | S3-213718 |
| S3-213676 | add content for annex X.1 General | Huawei, Hisilicon, China Mobile | revised | S3-213376 | S3-213719 |
| S3-213677 | Update to Conclusion #3 and #4 | Huawei, Hisilicon, Xiaomi | approved | S3-213396 |  |
| S3-213678 | update to the clause 2 and 5.3.2 | Huawei, HiSilicon, InterDigital, Samsung | approved | S3-213392 |  |
| S3-213679 | Address EN for how to deal with legacy node | Huawei, Hisilicon | approved | S3-213421 |  |
| S3-213680 | Living CR for UC3S in TS 33.501 | Huawei, Hisilicon | approved | S3-213401 |  |
| S3-213681 | User consent related requirements | Huawei, Hisilicon,Nokia, Nokia Shanghai Bell | approved | S3-213402 |  |
| S3-213682 | General for Generic Requirements for adapting procedures related to user consent | Huawei, Hisilicon,Nokia, Nokia Shanghai Bell | approved | S3-213406 |  |
| S3-213683 | Address EN and add evaluation for solution 4 | Huawei, Hisilicon | approved | S3-213414 |  |
| S3-213684 | Update on Conclusion for UDM service for User Consent Service | Huawei, Hisilicon | approved | S3-213417 |  |
| S3-213685 | Update on Conclusion for KI#2 and KI#3 | Huawei, Hisilicon | approved | S3-213419 |  |
| S3-213686 | Update on General Conclusion for Procedure for User Consent Check | Huawei, Hisilicon | approved | S3-213420 |  |
| S3-213687 | Common Architecture | Huawei, Hisilicon | approved | S3-213410 |  |
| S3-213688 | Address Editor's Note/clean up | Huawei, Hisilicon | approved | S3-213411 |  |
| S3-213689 | Reply LS on user consent | Huawei, HiSilicon | approved |  |  |
| S3-213690 | Action upon revocation of consent | Ericsson | approved | S3-213515 |  |
| S3-213691 | TR 33.847 sol#10 evaluation | InterDigital, Europe, Ltd. | approved | S3-213308 |  |
| S3-213692 | TR 33.847 sol#24 evaluation | InterDigital, Europe, Ltd. | approved | S3-213309 |  |
| S3-213693 | TR 33.847 sol#25 evaluation | InterDigital, Europe, Ltd. | approved | S3-213310 |  |
| S3-213694 | TR 33.847 Update Conclusions for L3 U2N relay | InterDigital, Europe, Ltd. | approved | S3-213356 |  |
| S3-213695 | Concept of User Consent | China Unicom, Huawei, HiSilicon | approved | S3-213344 |  |
| S3-213696 | Conclusion for KI #3 | Qualcomm Incorporated, Ericsson | approved | S3-213523 |  |
| S3-213697 | Update to Solution #12 | Qualcomm Incorporated | approved | S3-213529 |  |
| S3-213698 | Living Document for UPIP on TS 33.401 | VODAFONE Group Plc | approved | S3-213447 |  |
| S3-213699 | living document for UPIP to TS 33.501 | VODAFONE Group Plc | approved | S3-213448 |  |
| S3-213700 | Update in Solution#9 | Philips International B.V. | approved | S3-213542 |  |
| S3-213701 | Improved LTE security mechanism for 5G ProSe restricted discovery to ensure source authentication in out of coverage use cases | Philips International B.V. | approved | S3-213554 |  |
| S3-213702 | Add conclusion to KI#2 | China Mobile | approved | S3-213453 |  |
| S3-213703 | Change request to living document Transport security protection for MSGin5G interfaces | China Mobile | approved | S3-213458 |  |
| S3-213704 | draftTR 33.862 v0.7.0 | China Mobile | approved |  |  |
| S3-213705 | Living document for 5GMSG\_SEC | China Mobile | approved | S3-213456 |  |
| S3-213706 | draft TR 33.866 v0.7.0 | China Mobile | approved |  |  |
| S3-213707 | Security aspects of eNA\_living document | China mobile | approved | S3-213373 |  |
| S3-213708 | Proposed text for scope and overview of UAS TS | Qualcomm Incorporated | approved | S3-213516 |  |
| S3-213709 | Enhancing TLS with GBA usage for Edge | Qualcomm Incorporated | approved | S3-213521 |  |
| S3-213710 | Draft TS 33.256 | Qualcomm CDMA Technologies | approved | - |  |
| S3-213711 | Update of Solution #2 (NSWO authentication using credentials retrieved from UDM/ARPF) | Ericsson | approved | S3-213550 |  |
| S3-213712 | Evaluation of Solution #1 (Non-Seamless WLAN offload Authentiation in 5GS) | Ericsson | approved | S3-213543 |  |
| S3-213713 | Conclusion for KI1.4 | Ericsson, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | approved | S3-213479 | - |
| S3-213714 | Evaluation of Solution 5 | Ericsson, Lenovo, Motorola Mobility | approved | S3-213480 | - |
| S3-213715 | Evaluation for sol#34 | LG Electronics Inc. | approved | S3-213304 | - |
| S3-213716 | Add some abbreviation and clean up | ZTE Corporation | approved | S3-213330 | - |
| S3-213717 | add content for annex X.3 Protection of data transferred between AF and NWDAF | Huawei, Hisilicon, China Mobile | approved | S3-213674 | - |
| S3-213718 | add content for annex X.4 Protection of UE data in transit between NFs | Huawei, Hisilicon | approved | S3-213675 | - |
| S3-213719 | add content for annex X.1 General | Huawei, Hisilicon, China Mobile | approved | S3-213676 | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-213300 | 27/09/2021 12:22:32 | approved |
| S3-213301 | 27/09/2021 12:22:34 | noted |
| S3-213302 | 04/10/2021 16:25:56 | noted |
| S3-213303 | 04/10/2021 15:36:43 | approved |
| S3-213303 | 08/10/2021 09:04:47 | revised |
| S3-213303 | 08/10/2021 09:05:24 | approved |
| S3-213304 | 05/10/2021 09:27:52 | revised |
| S3-213305 | 04/10/2021 15:19:15 | noted |
| S3-213306 | 04/10/2021 15:54:34 | noted |
| S3-213307 | 04/10/2021 15:55:24 | available |
| S3-213311 | 04/10/2021 15:12:56 | noted |
| S3-213312 | 01/10/2021 14:02:36 | postponed |
| S3-213313 | 01/10/2021 14:02:46 | postponed |
| S3-213314 | 04/10/2021 10:41:11 | available |
| S3-213315 | 04/10/2021 13:47:30 | noted |
| S3-213316 | 01/10/2021 14:03:05 | noted |
| S3-213317 | 01/10/2021 14:03:05 | noted |
| S3-213318 | 01/10/2021 14:03:06 | noted |
| S3-213319 | 01/10/2021 14:03:07 | noted |
| S3-213320 | 04/10/2021 11:49:43 | available |
| S3-213321 | 04/10/2021 11:59:47 | postponed |
| S3-213322 | 04/10/2021 11:59:48 | postponed |
| S3-213323 | 04/10/2021 11:59:57 | noted |
| S3-213324 | 04/10/2021 12:01:01 | available |
| S3-213325 | 04/10/2021 16:24:16 | noted |
| S3-213326 | 04/10/2021 15:15:05 | approved |
| S3-213327 | 04/10/2021 12:19:58 | noted |
| S3-213328 | 04/10/2021 12:20:03 | noted |
| S3-213329 | 04/10/2021 12:24:48 | approved |
| S3-213330 | 04/10/2021 12:25:17 | approved |
| S3-213330 | 18/10/2021 11:38:09 | revised |
| S3-213331 | 04/10/2021 12:25:36 | noted |
| S3-213332 | 04/10/2021 12:40:43 | noted |
| S3-213333 | 04/10/2021 12:41:25 | noted |
| S3-213334 | 04/10/2021 12:40:46 | noted |
| S3-213335 | 04/10/2021 12:41:30 | noted |
| S3-213336 | 04/10/2021 14:54:01 | noted |
| S3-213337 | 04/10/2021 14:56:48 | noted |
| S3-213338 | 04/10/2021 15:37:05 | noted |
| S3-213339 | 04/10/2021 15:47:07 | noted |
| S3-213340 | 04/10/2021 15:37:11 | noted |
| S3-213341 | 04/10/2021 15:52:59 | noted |
| S3-213342 | 04/10/2021 15:53:18 | noted |
| S3-213343 | 04/10/2021 15:53:21 | noted |
| S3-213347 | 28/09/2021 09:54:20 | withdrawn |
| S3-213348 | 04/10/2021 15:53:29 | noted |
| S3-213349 | 04/10/2021 16:18:35 | approved |
| S3-213350 | 04/10/2021 16:21:25 | approved |
| S3-213351 | 04/10/2021 16:22:03 | approved |
| S3-213353 | 04/10/2021 14:54:12 | noted |
| S3-213354 | 04/10/2021 14:56:56 | noted |
| S3-213355 | 04/10/2021 15:15:19 | noted |
| S3-213359 | 04/10/2021 14:58:01 | noted |
| S3-213361 | 04/10/2021 15:59:12 | noted |
| S3-213365 | 04/10/2021 16:18:12 | noted |
| S3-213367 | 04/10/2021 13:39:54 | noted |
| S3-213368 | 04/10/2021 13:40:38 | noted |
| S3-213369 | 04/10/2021 13:40:47 | noted |
| S3-213372 | 04/10/2021 13:47:39 | noted |
| S3-213373 | 04/10/2021 13:56:26 | approved |
| S3-213373 | 08/10/2021 09:05:34 | revised |
| S3-213374 | 04/10/2021 13:56:44 | available |
| S3-213375 | 04/10/2021 13:56:58 | available |
| S3-213379 | 04/10/2021 15:52:15 | noted |
| S3-213380 | 04/10/2021 12:37:22 | approved |
| S3-213381 | 04/10/2021 12:37:34 | noted |
| S3-213382 | 04/10/2021 12:37:38 | noted |
| S3-213385 | 22/09/2021 08:49:48 | withdrawn |
| S3-213386 | 04/10/2021 15:37:34 | noted |
| S3-213389 | 04/10/2021 12:26:00 | approved |
| S3-213390 | 04/10/2021 15:51:11 | available |
| S3-213393 | 04/10/2021 16:22:59 | noted |
| S3-213395 | 04/10/2021 15:15:31 | noted |
| S3-213397 | 04/10/2021 15:15:41 | noted |
| S3-213398 | 04/10/2021 15:25:19 | noted |
| S3-213399 | 04/10/2021 15:26:08 | noted |
| S3-213400 | 04/10/2021 15:26:33 | noted |
| S3-213403 | 04/10/2021 13:55:47 | noted |
| S3-213404 | 04/10/2021 13:55:55 | noted |
| S3-213405 | 04/10/2021 13:55:56 | noted |
| S3-213407 | 04/10/2021 13:56:10 | noted |
| S3-213408 | 04/10/2021 13:56:11 | noted |
| S3-213412 | 04/10/2021 15:58:58 | noted |
| S3-213413 | 04/10/2021 15:59:21 | approved |
| S3-213415 | 04/10/2021 15:59:37 | noted |
| S3-213416 | 04/10/2021 16:00:22 | noted |
| S3-213418 | 04/10/2021 16:00:42 | noted |
| S3-213422 | 04/10/2021 12:22:58 | noted |
| S3-213425 | 04/10/2021 12:23:16 | noted |
| S3-213426 | 04/10/2021 15:50:28 | noted |
| S3-213427 | 04/10/2021 15:50:34 | noted |
| S3-213428 | 04/10/2021 15:50:35 | noted |
| S3-213429 | 04/10/2021 15:40:05 | approved |
| S3-213430 | 04/10/2021 12:37:05 | noted |
| S3-213431 | 04/10/2021 15:39:23 | approved |
| S3-213432 | 04/10/2021 15:50:09 | approved |
| S3-213433 | 04/10/2021 16:06:50 | available |
| S3-213435 | 04/10/2021 12:01:14 | noted |
| S3-213436 | 04/10/2021 12:02:35 | noted |
| S3-213437 | 04/10/2021 14:54:27 | noted |
| S3-213438 | 04/10/2021 14:54:40 | noted |
| S3-213439 | 04/10/2021 14:57:06 | noted |
| S3-213441 | 04/10/2021 15:07:38 | approved |
| S3-213443 | 04/10/2021 12:40:59 | noted |
| S3-213444 | 04/10/2021 12:41:39 | noted |
| S3-213445 | 04/10/2021 12:42:37 | noted |
| S3-213449 | 04/10/2021 15:55:54 | noted |
| S3-213450 | 04/10/2021 14:54:58 | noted |
| S3-213451 | 04/10/2021 16:19:05 | approved |
| S3-213452 | 04/10/2021 15:55:59 | noted |
| S3-213453 | 04/10/2021 14:09:30 | available |
| S3-213454 | 04/10/2021 16:01:49 | approved |
| S3-213455 | 04/10/2021 16:01:52 | approved |
| S3-213456 | 04/10/2021 14:21:18 | approved |
| S3-213457 | 04/10/2021 15:53:48 | noted |
| S3-213458 | 04/10/2021 14:09:52 | available |
| S3-213459 | 04/10/2021 12:42:00 | noted |
| S3-213460 | 04/10/2021 15:15:54 | noted |
| S3-213461 | 04/10/2021 15:16:52 | noted |
| S3-213462 | 04/10/2021 15:16:30 | noted |
| S3-213463 | 04/10/2021 15:16:44 | noted |
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| S3-213469 | 04/10/2021 12:21:37 | approved |
| S3-213473 | 04/10/2021 13:52:11 | noted |
| S3-213475 | 04/10/2021 15:56:32 | noted |
| S3-213477 | 04/10/2021 13:54:30 | noted |
| S3-213478 | 04/10/2021 13:54:31 | noted |
| S3-213479 | 04/10/2021 14:47:02 | revised |
| S3-213480 | 04/10/2021 14:47:32 | revised |
| S3-213481 | 04/10/2021 13:57:33 | noted |
| S3-213482 | 04/10/2021 12:22:04 | approved |
| S3-213484 | 04/10/2021 12:41:14 | noted |
| S3-213485 | 04/10/2021 13:38:32 | noted |
| S3-213486 | 04/10/2021 12:23:41 | noted |
| S3-213487 | 04/10/2021 12:23:42 | noted |
| S3-213488 | 04/10/2021 12:23:47 | approved |
| S3-213489 | 04/10/2021 12:24:00 | noted |
| S3-213490 | 04/10/2021 12:24:01 | noted |
| S3-213491 | 04/10/2021 12:24:01 | noted |
| S3-213494 | 04/10/2021 16:06:24 | noted |
| S3-213495 | 04/10/2021 16:15:50 | approved |
| S3-213496 | 04/10/2021 16:02:40 | noted |
| S3-213497 | 04/10/2021 16:07:39 | available |
| S3-213498 | 04/10/2021 16:02:13 | noted |
| S3-213502 | 04/10/2021 14:56:01 | noted |
| S3-213503 | 04/10/2021 14:57:15 | noted |
| S3-213504 | 04/10/2021 12:41:17 | noted |
| S3-213505 | 04/10/2021 12:41:51 | noted |
| S3-213506 | 04/10/2021 13:54:41 | noted |
| S3-213508 | 04/10/2021 16:01:57 | noted |
| S3-213509 | 04/10/2021 15:38:00 | noted |
| S3-213510 | 04/10/2021 15:58:35 | noted |
| S3-213511 | 04/10/2021 16:00:06 | noted |
| S3-213513 | 04/10/2021 15:52:33 | noted |
| S3-213514 | 04/10/2021 12:37:54 | noted |
| S3-213516 | 04/10/2021 13:48:02 | approved |
| S3-213517 | 04/10/2021 13:40:13 | noted |
| S3-213518 | 04/10/2021 13:40:59 | noted |
| S3-213519 | 04/10/2021 13:42:03 | available |
| S3-213520 | 04/10/2021 13:47:04 | available |
| S3-213521 | 04/10/2021 12:22:26 | approved |
| S3-213521 | 04/10/2021 14:11:12 | available |
| S3-213522 | 04/10/2021 14:56:15 | noted |
| S3-213524 | 04/10/2021 15:19:35 | approved |
| S3-213525 | 04/10/2021 13:54:43 | noted |
| S3-213526 | 04/10/2021 15:32:17 | noted |
| S3-213527 | 04/10/2021 15:32:23 | noted |
| S3-213530 | 04/10/2021 15:39:04 | noted |
| S3-213531 | 04/10/2021 12:24:36 | noted |
| S3-213532 | 04/10/2021 12:24:37 | noted |
| S3-213533 | 04/10/2021 15:52:38 | noted |
| S3-213534 | 04/10/2021 15:52:43 | noted |
| S3-213535 | 04/10/2021 12:38:11 | noted |
| S3-213537 | 04/10/2021 13:54:53 | noted |
| S3-213538 | 04/10/2021 16:07:52 | available |
| S3-213539 | 04/10/2021 16:03:04 | available |
| S3-213540 | 04/10/2021 16:21:35 | noted |
| S3-213541 | 04/10/2021 16:22:14 | noted |
| S3-213543 | 04/10/2021 14:13:13 | available |
| S3-213544 | 04/10/2021 15:46:54 | noted |
| S3-213545 | 04/10/2021 16:21:44 | approved |
| S3-213546 | 04/10/2021 15:24:32 | noted |
| S3-213547 | 04/10/2021 15:25:11 | noted |
| S3-213548 | 04/10/2021 16:22:20 | approved |
| S3-213549 | 04/10/2021 12:03:13 | noted |
| S3-213550 | 04/10/2021 14:12:58 | available |
| S3-213551 | 04/10/2021 12:02:28 | noted |
| S3-213552 | 04/10/2021 16:22:48 | noted |
| S3-213553 | 04/10/2021 15:32:41 | noted |
| S3-213554 | 04/10/2021 15:21:52 | available |
| S3-213555 | 04/10/2021 16:22:50 | noted |
| S3-213557 | 04/10/2021 15:54:02 | noted |
| S3-213558 | 04/10/2021 13:40:22 | noted |
| S3-213559 | 04/10/2021 13:41:08 | noted |
| S3-213560 | 04/10/2021 15:26:16 | approved |
| S3-213563 | 04/10/2021 15:33:14 | available |
| S3-213566 | 04/10/2021 15:33:57 | noted |
| S3-213567 | 04/10/2021 15:34:23 | available |
| S3-213568 | 04/10/2021 15:35:13 | available |
| S3-213569 | 04/10/2021 15:35:57 | noted |
| S3-213571 | 04/10/2021 15:54:12 | noted |
| S3-213572 | 04/10/2021 12:39:54 | noted |
| S3-213573 | 04/10/2021 16:17:20 | available |
| S3-213574 | 04/10/2021 16:17:46 | noted |
| S3-213575 | 04/10/2021 15:54:15 | noted |
| S3-213578 | 04/10/2021 12:39:47 | approved |
| S3-213580 | 04/10/2021 12:38:53 | available |
| S3-213581 | 04/10/2021 15:39:51 | approved |
| S3-213582 | 04/10/2021 15:39:52 | approved |
| S3-213583 | 04/10/2021 12:39:09 | noted |
| S3-213585 | 04/10/2021 15:57:26 | available |
| S3-213586 | 04/10/2021 15:07:58 | noted |
| S3-213587 | 04/10/2021 15:36:31 | noted |
| S3-213588 | 04/10/2021 15:17:06 | approved |
| S3-213590 | 04/10/2021 16:18:25 | approved |
| S3-213591 | 04/10/2021 16:22:32 | approved |
| S3-213592 | 04/10/2021 12:22:15 | approved |
| S3-213593 | 04/10/2021 15:17:25 | approved |
| S3-213594 | 04/10/2021 15:58:46 | approved |
| S3-213595 | 04/10/2021 12:38:16 | approved |
| S3-213596 | 04/10/2021 13:39:45 | approved |
| S3-213597 | 04/10/2021 13:41:17 | approved |
| S3-213598 | 04/10/2021 13:41:39 | approved |
| S3-213599 | 04/10/2021 16:16:40 | approved |
| S3-213600 | 04/10/2021 16:17:58 | approved |
| S3-213601 | 04/10/2021 16:18:05 | approved |
| S3-213604 | 15/10/2021 15:59:56 | approved |
| S3-213605 | 15/10/2021 11:50:30 | approved |
| S3-213606 | 15/10/2021 11:50:31 | approved |
| S3-213607 | 15/10/2021 10:22:56 | approved |
| S3-213608 | 04/10/2021 15:56:25 | approved |
| S3-213609 | 04/10/2021 10:40:39 | approved |
| S3-213610 | 04/10/2021 12:40:16 | reserved |
| S3-213610 | 18/10/2021 11:28:52 | approved |
| S3-213611 | 04/10/2021 15:55:09 | agreed |
| S3-213612 | 15/10/2021 15:59:46 | approved |
| S3-213613 | 04/10/2021 15:18:25 | approved |
| S3-213614 | 04/10/2021 13:57:48 | approved |
| S3-213615 | 04/10/2021 16:16:00 | approved |
| S3-213616 | 04/10/2021 16:06:13 | approved |
| S3-213617 | 04/10/2021 16:06:02 | approved |
| S3-213618 | 04/10/2021 14:04:54 | approved |
| S3-213619 | 04/10/2021 15:27:02 | approved |
| S3-213620 | 04/10/2021 15:28:18 | approved |
| S3-213621 | 04/10/2021 15:33:43 | approved |
| S3-213622 | 04/10/2021 15:33:48 | approved |
| S3-213623 | 04/10/2021 12:00:20 | approved |
| S3-213624 | 04/10/2021 14:56:32 | approved |
| S3-213625 | 04/10/2021 15:56:44 | approved |
| S3-213626 | 04/10/2021 14:57:54 | approved |
| S3-213627 | 04/10/2021 14:57:55 | approved |
| S3-213628 | 04/10/2021 14:58:06 | approved |
| S3-213629 | 04/10/2021 16:16:21 | available |
| S3-213630 | 04/10/2021 15:22:16 | approved |
| S3-213631 | 04/10/2021 14:57:40 | approved |
| S3-213632 | 04/10/2021 14:58:13 | approved |
| S3-213633 | 15/10/2021 11:50:38 | approved |
| S3-213634 | 04/10/2021 15:31:05 | approved |
| S3-213635 | 15/10/2021 14:35:48 | approved |
| S3-213636 | 04/10/2021 13:54:08 | approved |
| S3-213637 | 04/10/2021 13:54:09 | approved |
| S3-213638 | 04/10/2021 13:51:39 | approved |
| S3-213639 | 15/10/2021 14:35:40 | approved |
| S3-213661 | 04/10/2021 12:39:24 | approved |
| S3-213662 | 04/10/2021 14:57:28 | approved |
| S3-213663 | 04/10/2021 13:38:55 | approved |
| S3-213664 | 04/10/2021 12:43:15 | approved |
| S3-213667 | 18/10/2021 09:07:08 | approved |
| S3-213668 | 18/10/2021 09:01:05 | approved |
| S3-213669 | 18/10/2021 09:07:16 | approved |
| S3-213670 | 04/10/2021 16:18:49 | approved |
| S3-213671 | 04/10/2021 15:37:41 | approved |
| S3-213672 | 04/10/2021 15:40:16 | approved |
| S3-213673 | 15/10/2021 14:35:32 | approved |
| S3-213674 | 04/10/2021 13:57:14 | approved |
| S3-213674 | 18/10/2021 11:38:27 | revised |
| S3-213675 | 04/10/2021 13:57:23 | approved |
| S3-213675 | 18/10/2021 11:38:32 | revised |
| S3-213676 | 04/10/2021 13:57:09 | approved |
| S3-213676 | 18/10/2021 11:38:37 | revised |
| S3-213677 | 04/10/2021 15:24:55 | approved |
| S3-213678 | 04/10/2021 13:47:47 | approved |
| S3-213679 | 04/10/2021 12:22:46 | approved |
| S3-213680 | 04/10/2021 13:55:30 | reserved |
| S3-213680 | 18/10/2021 11:28:58 | approved |
| S3-213681 | 04/10/2021 13:55:40 | approved |
| S3-213682 | 04/10/2021 13:56:02 | approved |
| S3-213683 | 04/10/2021 15:59:29 | approved |
| S3-213684 | 04/10/2021 16:00:30 | approved |
| S3-213685 | 04/10/2021 16:00:48 | approved |
| S3-213686 | 04/10/2021 16:00:57 | approved |
| S3-213687 | 04/10/2021 16:01:01 | approved |
| S3-213688 | 04/10/2021 16:01:11 | approved |
| S3-213689 | 04/10/2021 11:51:15 | approved |
| S3-213690 | 04/10/2021 15:59:51 | approved |
| S3-213691 | 04/10/2021 15:12:29 | approved |
| S3-213692 | 04/10/2021 15:12:36 | approved |
| S3-213693 | 04/10/2021 15:12:49 | approved |
| S3-213694 | 04/10/2021 15:23:05 | approved |
| S3-213695 | 04/10/2021 16:01:16 | approved |
| S3-213696 | 04/10/2021 15:32:08 | approved |
| S3-213697 | 04/10/2021 15:39:38 | approved |
| S3-213698 | 18/10/2021 08:59:51 | approved |
| S3-213699 | 18/10/2021 08:59:53 | approved |
| S3-213700 | 04/10/2021 15:47:21 | approved |
| S3-213701 | 04/10/2021 15:20:16 | approved |
| S3-213702 | 04/10/2021 16:01:31 | approved |
| S3-213703 | 04/10/2021 14:19:55 | approved |
| S3-213704 | 18/10/2021 09:02:32 | approved |
| S3-213705 | 04/10/2021 14:23:57 | reserved |
| S3-213705 | 18/10/2021 11:29:04 | approved |
| S3-213706 | 18/10/2021 09:11:12 | approved |
| S3-213707 | 18/10/2021 09:02:06 | approved |
| S3-213708 | 04/10/2021 14:10:46 | approved |
| S3-213709 | 04/10/2021 14:58:43 | approved |
| S3-213710 | 18/10/2021 09:01:18 | approved |
| S3-213711 | 04/10/2021 16:21:50 | approved |
| S3-213712 | 04/10/2021 16:19:19 | approved |
| S3-213713 | 04/10/2021 16:06:57 | approved |
| S3-213714 | 04/10/2021 16:02:26 | approved |
| S3-213715 | 05/10/2021 09:27:55 | approved |
| S3-213716 | 18/10/2021 11:38:11 | approved |
| S3-213717 | 18/10/2021 11:38:28 | approved |
| S3-213718 | 18/10/2021 11:38:34 | approved |
| S3-213719 | 18/10/2021 11:38:38 | approved |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-213312 |  | LS on UE capabilities indication in UPU | S2-2101072 | postponed | (none) |
| S3-213313 |  | Reply LS on UE capabilities indication in UPU | C1-212599 | postponed | (none) |
| S3-213314 |  | LS on support of PWS over SNPN | S1-210368 | replied to | S3-213609 |
| S3-213315 |  | Support of UAVs authentication/authorization in 3GPP systems and interfacing with USS/UTM | GSMA | noted | (none) |
| S3-213316 |  | Response LS on PWS Support over SNPN | R3-214402 | noted | (none) |
| S3-213317 |  | Reply LS on support of PWS over SNPN | S1-213120 | noted | (none) |
| S3-213318 |  | Reply LS on UAS terminology alignment | S1-213256 | noted | (none) |
| S3-213319 |  | Reply LS on Transaction Information - Dispersion Analytics | S2-2106637 | noted | (none) |
| S3-213320 |  | Reply LS on user consent | S2-2106638 | replied to | S3-213689 |
| S3-213321 |  | Reply LS on UE capabilities indication in UPU | S2-2106703 | postponed | (none) |
| S3-213322 |  | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | postponed | (none) |
| S3-213323 |  | LS Reply on Supporting UP Integrity Protection Policy Handling for Interworking from 5GS to EPS | S2-2106974 | noted | (none) |
| S3-213324 |  | LS on the security issue of MBS interest indication | R2-2108910 | replied to | S3-213623 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-213609 | Reply to LS on support of PWS over SNPN | SA1 | SA2, CT1, RAN2, RAN3, SA, CT, RAN | SA1 |
| S3-213623 | Reply LS for the security issue of MBS interest indication | RAN2 | - | S3-213324 |
| S3-213689 | Reply LS on user consent | SA2 | - | S3 213320 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-213470 | 33.503 | 0.0.0 | Skeleton of 5G ProSe draft TS |
| S3-213604 | 33.874 | 0.4.0 | draft TR 33.874-040 |
| S3-213607 | 33.881 | 0.3.0 | draft TR 33.881 |
| S3-213612 | 33.857 | 0.8.0 | draft TR 33.857 v0.8.0 |
| S3-213633 | 33.850 | 0.8.0 | TR 33.850 for MBS security |
| S3-213635 | 33.847 | 0.8.0 | TR 33.847 v0.8.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS |
| S3-213638 | 33.503 | 0.0.0 | Skeleton of 5G ProSe draft TS |
| S3-213639 | 33.503 | 0.1.0 | Draft TS 33.503 v0.1.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) |
| S3-213669 | 33.867 | 0.7.0 | Draft TR33.867 |
| S3-213704 | 33.862 | 0.7.0 | draftTR 33.862 v0.7.0 |
| S3-213706 | 33.866 | 0.7.0 | draft TR 33.866 v0.7.0 |
| S3-213710 | 33.256 | 0.2.0 | Draft TS 33.256 |

## Annex E: List of participants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Organization Represented |
| Mr. | Aggarwal | Chaitanya | Delegate | Nokia Germany | Nokia Italy |
| Mr. | Ali | Irfan | Delegate | Cisco Systems Belgium | Cisco Systems Belgium |
| Mr. | Ashton | Tim | Delegate | National Technical Assistance | National Technical Assistance |
| Prof. | Babbage | Steve | Delegate | VODAFONE Group Plc | VODAFONE Group Plc |
| Dr. | Baboescu | Florin | Delegate | BROADCOM CORPORATION | BROADCOM CORPORATION |
| Dr. | Baskaran | Sheeba Backia Mary | Delegate | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Dr. | Ben Henda | Noamen | Delegate | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bjerrum | Bo Holm | Delegate | Nokia Corporation | Nokia Denmark |
| Ing. | Bouchmal | Faiza | Delegate | Casa Systems Inc. | Casa Systems Inc. |
| Mr. | Brusilovsky | Alec | Delegate | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Bykampadi | Nagendra | Delegate | Altiostar | Altiostar |
| Mr. | Cano Soveri | Mirko | Secretary | ETSI | ETSI |
| Mr. | Canterbury | Mark | Delegate | Tencastle Limited | National Technical Assistance |
| Ms. | Carducci | Candace | Delegate | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Castagno | Mauro | Delegate | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Champel | Mary-Luc | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Electronics |
| Mr. | Chater-Lea | David | Delegate | Motorola Solutions UK Ltd. | Motorola Solutions UK Ltd. |
| Mr. | Chen | Dong | Delegate | Beijing Xiaomi Mobile Software | Xiaomi Communications |
| Mr. | Choi | Hongjin | Delegate | Samsung R&D Institute UK | Harman GmbH |
| Mr. | Choyi | Vinod Kumar | Delegate | Verizon UK Ltd | Verizon Denmark |
| Mr. | Chuberre | Nicolas | Delegate | THALES | THALES |
| Mr. | Cichonski | Jeffrey | Delegate | NIST | NIST |
| Ms. | Comak | Pinar | Delegate | Ericsson LM | Ericsson LM |
| Dr. | Corbett | Cherita | Delegate | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Davydov | Stepan | Delegate | JSRPC Kryptonite | JSRPC Kryptonite |
| Mr. | Dees | Walter | Delegate | Philips International B.V. | Philips International B.V. |
| Ms. | Deng | Juan | Delegate | HuaWei Technologies Co., Ltd | HUAWEI Technologies Japan K.K. |
| Mr. | Doerr | Johannes | Delegate | BMWi | BMWi |
| Dr. | Dolan | Michael | Delegate | FirstNet | FirstNet |
| Mr. | Drynkin | Anton | Delegate | JSRPC Kryptonite | JSRPC Kryptonite |
| Mr. | Edwards | Robert | Delegate | Matrixx | Matrixx |
| Mr. | Eisenschmid | Michael | Delegate | ZITiS | ZITiS |
| Mr. | Ennesser | Francois | Delegate | Huawei Technologies France | Huawei Technologies France |
| Dr. | Escott | Adrian | Delegate | Qualcomm CDMA Technologies | Qualcomm CDMA Technologies |
| Mr. | Evans | Tim P. | Delegate | VODAFONE Group Plc | VODAFONE Group Plc |
| Mr. | Everett | Jared | Delegate | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Falk | Rainer | Delegate | Siemens AG | Siemens AG |
| Mr. | Feng | Cheng | Delegate | Datang Mobile Com. Equipment | Datang Mobile Com. Equipment |
| Mr. | Ferdi | Samir | Delegate | InterDigital, Inc. | InterDigital, Europe, Ltd. |
| Mr. | Gabay | David | Delegate | MITRE Corporation | MITRE Corporation |
| Ing. | Gallo | Luigi | Delegate | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mrs. | Gan | Lu | Delegate | OPPO | OPPO |
| Dr. | Gao | Feng | Delegate | China Unicom | China Unicom |
| Dr. | Garcia-Morchon | Oscar | Delegate | Philips International B.V. | Philips International B.V. |
| Ms. | Gauthier | Sandrine | Delegate | Airbus | Airbus |
| Mr. | Goldberg | Martin | Delegate | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Grewal | Rajpreet Singh | Delegate | NTIA | NTIA |
| Miss | Griboedova | Ekaterina | Delegate | JSRPC Kryptonite | JSRPC Kryptonite |
| Ms. | Guo | Ivy | Delegate | Apple Computer Trading Co. Ltd | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | Delegate | HUAWEI TECH. GmbH | HiSilicon Technologies Co. Ltd |
| Mr. | Gupta | Varini | Delegate | Samsung R&D Institute India | Samsung R&D Institute India |
| Mr. | Gustafsson | Sune | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Hanhisalo | Markus | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Harper | Colby | Delegate | Pivotal Commware | Pivotal Commware |
| Mr. | Hegedus | Gabor | Delegate | SSNS | SSNS |
| Mr. | Hjelm | Bjorn | Delegate | Verizon UK Ltd | Verizon Sweden |
| Mr. | Hoffpauir | Dusty | Delegate | Charter Communications, Inc | Charter Communications, Inc |
| Mr. | Hu | Li | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Tech.(UK) Co.. Ltd |
| Miss | Huang | Xiaoting | Delegate | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Miss | Jerichow | Anja | Delegate | Nokia Germany | Nokia Germany |
| Mr. | jiao | qingwen | Delegate | CBN | CBN |
| Dr. | Jost | Christine | Delegate | Ericsson LM | Ericsson LM |
| Dr. | Karakoc | Ferhat | Delegate | Ericsson LM | Ericsson LM |
| Dr. | Keesmaat | Iko | Delegate | TNO | KPN N.V. |
| Mr. | Kenyon | Bradley | Delegate | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Mr. | Kim | Dongjoo | Delegate | LG Electronics Inc. | LG Electronics Inc. |
| Dr. | Kim | Hongil | Delegate | Qualcomm Incorporated | Qualcomm Incorporated |
| Dr. | Kim | Joonwoong | Delegate | SK Telecom | SK Telecom |
| Mr. | Kolekar | Abhijeet | Delegate | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd |
| Ms. | Koser | Elizabeth | Delegate | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Kruse | Heiko | Delegate | IDEMIA | IDEMIA |
| Dr. | Kunz | Andreas | Delegate | Motorola Mobility Germany GmbH | Lenovo (Beijing) Ltd |
| Mr. | Laitinen | Mika | Delegate | Airbus | Airbus |
| Mr. | Leadbeater | Alex | Delegate | BT plc | BT plc |
| Dr. | Lee | Duckey | Delegate | Samsung R&D Institute UK | Samsung Electronics Benelux BV |
| Dr. | Lee | Soo Bum | Delegate | Qualcomm Incorporated | Qualcomm Incorporated |
| Mr. | Lee | Xiaoyang | Delegate | CISA ECD | CISA ECD |
| Mr. | Lehtovirta | Vesa | Delegate | Ericsson LM | Ericsson LM |
| Dr. | Lei | Ao | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Dr. | Lei | Zander (Zhongding) | Delegate | HuaWei Technologies Co., Ltd | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Li | He | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Mr. | Li | Michael | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Libunao | Gerardo | Delegate | Verizon UK Ltd | Verizon UK Ltd |
| Dr. | Lim | Taehyung | Delegate | Samsung R&D Institute UK | Samsung Guangzhou Mobile R&D |
| Mr. | Lipsky | Jeff | Delegate | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Liu | Chang | Delegate | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | LIU | Jianning(Carry) | Delegate | Beijing Xiaomi Software Tech | Beijing Xiaomi Software Tech |
| Mr. | Liu | Yuze | Delegate | ZTE Corporation | ZTE Corporation |
| Mr. | Loushine | Mike | Delegate | AT&T | AT&T |
| Mr. | Lu | Jinghao | Delegate | CBN | CBN |
| Ms. | Lu | Wei | Delegate | Xiaomi Technology | Xiaomi Technology |
| Mr. | M Dhanasekaran | Ranganathan | Rapporteur | Nokia Corporation | Nokia Corporation |
| Mr. | Manganahalli Jayaprakash | Sandesh | Delegate | TNO | KPN N.V. |
| Mr. | Martin | Jesus | Delegate | TELEFONICA S.A. | TELEFONICA S.A. |
| Mr. | Mayer | Georg | Delegate | HuaWei Technologies Co., Ltd | HUAWEI TECHNOLOGIES Co. Ltd. |
| Dr. | Muhanna | Ahmad | Delegate | Mavenir | Mavenir |
| Mr. | Nair | Suresh | Chair | Nokia Germany | Nokia |
| Mr. | NAKAMURA | Kazuo | Delegate | NICT | NICT |
| Mr. | Nakarmi | Prajwol Kumar | Delegate | Ericsson Limited | Ericsson France S.A.S |
| Mr. | Naslund | Mats | Delegate | NDRE | NDRE |
| Mr. | Nayak | Ashok Kumar | Delegate | Samsung R&D Institute India | Samsung R&D Institute India |
| Mr. | Niemi | Marko | Delegate | MediaTek Inc. | MediaTek Inc. |
| Mr. | Norton | Mark | Delegate | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | O'Driscoll | James | Delegate | NCSC | NCSC |
| Mr. | Palanigounder | Anand | Delegate | Qualcomm Technologies Int | Qualcomm Incorporated |
| Ms. | Parambath Sasi | NIvedya | Delegate | Samsung R&D Institute India | Samsung Electronics GmbH |
| Mr. | Patry | Frank | Delegate | Omnispace | Omnispace |
| Mr. | Pätzold | Thomas | Delegate | Deutsche Telekom AG | Deutsche Telekom AG |
| Mr. | PENG | Jin | Delegate | ZTE Corporation | ZTE Corporation |
| Miss | Ping | Jing | Delegate | Nokia Germany | Nokia Germany |
| Mr. | PINTO | BARUCH | Delegate | Allot Ltd | Allot Ltd |
| Mr. | prakasam | sridhar | Delegate | Apple (UK) Limited | Apple (UK) Limited |
| Mr. | Pudney | Chris | Delegate | VODAFONE Group Plc | Vodafone GmbH |
| Mr. | Qi | Minpeng | Vice Chair | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Rajadurai | Rajavelsamy | Vice Chair | Samsung R&D Institute UK | Samsung R&D Institute UK |
| Ms. | Rajendran | Rohini | Delegate | Samsung R&D Institute India | Samsung Electronics Romania |
| Mrs. | Rong | Wu | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Device Co., Ltd |
| Mr. | Rutkowski | Tony | Delegate | CIS | CIS |
| Mr. | Samokhvalov | Roman | Delegate | JSRPC Kryptonite | JSRPC Kryptonite |
| Ing. | Sánchez | Antonio | Delegate | KEYSIGHT TECHNOLOGIES | Keysight Technologies UK Ltd |
| Mr. | Schumacher | Greg | Delegate | T-Mobile USA | T-Mobile USA |
| Ms. | Shen | Jun | Delegate | China Telecommunications | China Telecommunications |
| Ms. | Shen | Yang | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Dr. | Son | Jungje | Delegate | Samsung R&D Institute UK | Samsung Electronics Czech |
| Dr. | Staufer | Markus | Delegate | Nokia Germany | Nokia Belgium |
| Mr. | Syrett | Mark | Delegate | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Mr. | Taylor | Richard | Delegate | Public Safety Canada | Public Safety Canada |
| Mr. | Tiwari | Kundan | Delegate | NEC Corporation | NEC Corporation |
| Mr. | Torrecilla | Joaquin | Delegate | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Trygar | Tobey | Delegate | Peraton Labs | Peraton Labs |
| Dr. | Tsiatsis | Vlasios | Delegate | Ericsson LM | Ericsson Hungary Ltd |
| Mrs. | Vahidi | Helena | Delegate | Ericsson LM | Ericsson LM |
| Dr. | Vanderveen | Michaela | Delegate | MITRE Corporation | MITRE Corporation |
| Dr. | Walewski | Joachim | Delegate | Siemens AG | Siemens AG |
| Dr. | Wan | Tao | Delegate | CableLabs | CableLabs |
| Dr. | Wang | Dan | Delegate | IPLOOK | IPLOOK |
| Mrs. | wang | haimei | Delegate | CAICT | CAICT |
| Dr. | Wang | Zhibi | Delegate | InterDigital Communications | InterDigital Communications |
| Ms. | Wifvesson | Monica | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Wong | Marcus | Delegate | Futurewei | Futurewei |
| Mr. | Woodward | Tim | Delegate | Motorola Solutions Danmark A/S | Motorola Solutions Danmark A/S |
| Ms. | WU | Jinhua | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Miss | Wu | Yizhuang | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Telecommunication India |
| Miss | Xie | Zecheng | Delegate | China Unicom | China Unicom |
| Mr. | Xie | Zhenhua | Delegate | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Ms. | Xing | Zhen | Delegate | ZTE Corporation | ZTE Corporation |
| Miss | Xu | Hui | Delegate | CATT | CICT |
| Mr. | Xu | Yang | Delegate | Guangdong OPPO Mobile Telecom. | Guangdong OPPO Mobile Telecom. |
| Dr. | Yao | Ge | Delegate | China Unicom | China Unicom |
| Mr. | You | Shilin | Delegate | ZTE Corporation | ZTE Corporation |
| Dr. | Zhang | Bo | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Ms. | Zhang | Wanqiao | Delegate | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Mr. | Zhou | Wei | Delegate | CATT | CATT |
| Mr. | Zhu | Chunhui | Delegate | Spreadtrum Communications | Spreadtrum Communications |
| Dr. | Zugenmaier | Alf | Delegate | NTT DOCOMO INC. | NTT DOCOMO INC. |

## Annex F: List of future meetings

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| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#105e | 08-11-2021 | 19-11-2021 | Electronic meeting | Online |  |
| SA3#106e | 07-02-2022 | 11-02-2022 | Electronic meeting | Online |  |