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

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

**Online, Electronic meeting, 17/04/2023 to 21/04/2023**

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## 1 Agenda and Meeting Objectives

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

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

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

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

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

**S3-231700 Agenda**

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

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

**S3-231701 Process for SA3#110AdHoc-e**

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

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

**S3-231702 Process and agenda planning for SA3#110AdHoc-e**

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

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

## 2 Meeting Reports

## 3 Reports and Liaisons from other Groups (related to Rel-18 release content only)

**S3-231703 LS on user consent for UE location sharing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-230351*

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

**S3-231704 LS on UE event reporting over a user plane connection to LCS client or AF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2301789*

**Decision:** The document was **replied to in S3-232232**.

**S3-231705 LS on LPP message and supplementary service event report over a user plane connection between UE and LMF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2301857*

**Decision:** The document was **replied to in S3-232232**.

**S3-231706 LS Reply to 3GPP on SEPP Certificates**

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

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

**S3-231707 LS on UE specific data and analytics exchange between HPLMN and VPLMN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303548*

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

**S3-231708 Reply LS on Support PIN application architecture and interaction**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303698*

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

**S3-231709 Reply LS on SNAAPP requirements clarifications**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-230591*

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

**S3-231710 Reply LS on the data and analytics exchange between two NWDAFs in different PLMNs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303563*

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

**S3-231711 Reply LS on Progress and open issues for NPN enhancements in Rel-18**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303689*

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

**S3-231712 Reply LS on clarification on user consent for AI/ML**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303834*

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

**S3-231713 LS reply to Reply LS on Network federation interface for Telco edge consideration**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-233146*

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

**S3-231714 LS on Alignment of SA3 security aspects for Personal IoT Networks**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-230792*

**Decision:** The document was **replied to in S3-232118**.

**S3-231715 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-231061*

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

**S3-231716 LS to SA2 on Sidelink positioning procedure**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2302285*

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

**S3-231717 LS to 3GPP on GSMA requirements regarding intermediaries in the roaming ecosystem (Roaming Hub, IPX and RVAS Providers)**

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

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

**S3-231718 LS response to 3GPP on IPX Requirements for 5GS Roaming**

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

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

**S3-231719 LS Roaming Value Added Service Requirements**

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

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

**S3-231720 LS with Roaming Hubbing requirements and LS response to 3GPP SA3 LS(S3-214456) on 5GS Roaming Hubbing**

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

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

**S3-231721 LS on GSMA 5GMRR Working Solution Assumption L-PRINS and Data Session Control**

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

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

**S3-231758 Reply LS on LPP message and supplementary service event report over a user plane connection between UE and LMF and LS on UE event reporting over a user plane connection to LCS client or AF**

*Type: LS out For: Approval  
 to SA2, RAN2, CT1, CT3, CT4  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232232**.

**S3-231902 Reply LS on user plane connection between UE and LCS client, AF or LMF**

*Type: LS out For: Approval  
 to SA2, RAN2, CT1, CT3, CT4  
 Source: Huawei, HiSilicon*

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

**S3-231919 Reply LS on user consent for UE location sharing**

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

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

**S3-231964 Reply LS on IPX Requirements for 5GS Roaming from GSMA**

*Type: LS out For: Approval  
 to GSMA 5GMRR  
 Source: Huawei, HiSilicon*

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

**S3-231965 Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Huawei, HiSilicon*

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

**S3-231966 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Huawei, HiSilicon*

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

**S3-231973 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Apple*

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

**S3-231974 Reply LS on user consent for UE location sharing**

*Type: LS out For: Approval  
 to SA6  
 Source: Apple*

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

**S3-232090 LS reply on LPP message and supplementary service event report over a user plane connection between UE and LMF**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232091 LS reply on UE event reporting over a user plane connection to LCS client or AF**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232155 LS on Roaming architecture updates**

*Type: LS out For: (not specified)  
 to SA2, SA1, cc SA, CT4  
 Source: NTT DOCOMO INC.*

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

**S3-232232 Reply LS on LPP message and supplementary service event report over a user plane connection between UE and LMF and LS on UE event reporting over a user plane connection to LCS client or AF**

*Type: LS out For: Approval  
 to SA2, RAN2, CT1, CT3, CT4  
 Source: Ericsson*

(Replaces S3-231758)

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

## 4 Work areas (Rel-18)

### 4.1 New WID on Security Assurance Specification for Management Function (MnF)

### 4.2 New WID on SECAM and SCAS for 3GPP virtualized network products

### 4.3 New WID on Mission critical security enhancements phase 3

### 4.4 New WID on Security Assurance Specification (SCAS) for 5G Rel-17 Features

### 4.5 New WID on Security Assurance Specification for the Authentication and Key Management for Applications (AKMA) Anchor Function Function (AAnF)

### 4.6 New WID on SCAS for split-gNB product classes

### 4.7 Service Based Architecture (Rel-15/16/17)

### 4.8 Security Aspects of Proximity based services in 5GS ProSe (Rel-17)

### 4.9 All topics (Rel-15/16/17/18 )

### 4.10 ProSe Secondary Authentication

**S3-231772 Living document to TS 33.503 for Prose Secondary Authentication**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-232114**.

**S3-231773 Clearing EN on Remote UE Report**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-232104**.

**S3-231774 Clearing EN on Remote UE Subscription update**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231775 Clearing EN on Remote UE GPSI**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231776 Clearing EN on Revocation procedure**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231777 Naming alignment from 5GPRUK to CP-PRUK**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231778 draft LS on Prose Secondary Authentication**

*Type: LS out For: Approval  
 to SA2, cc CT1  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-232108**.

**S3-231887 Update the PDU Session secondary authentication of Remote UE**

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

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

**S3-231931 update the procedure to align with the R-17 agreement**

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

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

**S3-231935 Addressing Editor's Note on remote UE's subscription update notification**

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

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

**S3-231936 pCR on introducing another PC5-S message to the Remote UE**

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

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

**S3-231952 [Draft] LS on ProSe Secondary Authentication**

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

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

**S3-231953 Discussion of secondary authentication & authorization for Layer-3 UE-to-Network relaying**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-232104 Clearing EN on Remote UE Report**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Europe, Ltd., China Telecom, Huawei, HiSilicon*

(Replaces S3-231773)

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

**S3-232108 LS on Prose Secondary Authentication**

*Type: LS out For: Approval  
 to SA2, cc CT1  
 Source: InterDigital, Europe, Ltd., Ericsson*

(Replaces S3-231778)

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

**S3-232114 Living document to TS 33.503 for Prose Secondary Authentication**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-231772)

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

### 4.11 New WID on DTLS protocol profile for AKMA and GBA

**S3-231791 Proposed updates to the DTLS text**

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

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

**S3-231827 Changes to living document for GBA DTLS**

*Type: other For: Approval  
 Source: THALES*

**Abstract:**

It proposes changes to living document for GBA DTLS.

**Decision:** The document was **revised to S3-232135**.

**S3-231841 Living document for AKMA DTLS to TS 33.535**

*Type: draftCR For: (not specified)  
 33.535 v17.8.0  
 Source: ZTE Corporation*

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

**S3-231842 Living document for GBA DTLS to TS 33.220**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-232128**.

**S3-232064 Enable DTLS in Ua star protocol**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: Xiaomi communications*

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

**S3-232128 Living document for GBA DTLS to TS 33.220**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: ZTE Corporation*

(Replaces S3-231842)

**Decision:** The document was **email approval**.

**S3-232135 Changes to living document for GBA DTLS**

*Type: other For: Approval  
 Source: THALES*

(Replaces S3-231827)

**Abstract:**

It proposes changes to living document for GBA DTLS.

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

### 4.12 New WID on Security Aspects of the 5G Service Based Architecture Phase 2

### 4.13 New WID on IETF OSCORE protocol profiles for GBA and AKMA

**S3-231766 Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232213**.

**S3-231767 pCR to GBA OSCORE living doc: Clarifications**

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

**Decision:** The document was **revised to S3-232212**.

**S3-231768 Proposal for a living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.535, IETF OSCORE as AKMA Ua\* protocol**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: Ericsson*

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

**S3-231826 Changes to living document for GBA OSCORE**

*Type: other For: Approval  
 Source: THALES*

**Abstract:**

It proposes changes to living document for GBA OSCORE

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

**S3-232068 Enable OSCORE in Ua star protocol**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: Xiaomi communications*

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

**S3-232069 Resolve EN for choosing GBA\_U GBA\_ME**

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

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

**S3-232212 pCR to GBA OSCORE living doc: Clarifications**

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

(Replaces S3-231767)

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

**S3-232213 Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: Ericsson*

(Replaces S3-231766)

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

### 4.14 New WID on Security aspect of home network triggered primary authentication

**S3-231765 pCR to living document to TS 33.501: Clarifications and removals of Editor's Notes**

*Type: other For: Approval  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232211**.

**S3-231815 EN removal on UE reachability scenario**

*Type: other For: Agreement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231816 EN removal multiple AMF scenarios Veriant1**

*Type: other For: Agreement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232123**.

**S3-231817 EN removal multiple AMF scenarios Veriant2**

*Type: other For: Agreement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231818 addition of SoR use case**

*Type: other For: Agreement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231819 addition of UPU use case**

*Type: other For: Agreement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231843 Discussion on home network triggered primary authentication procedure**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

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

**S3-231846 Update home network triggered primary authentication procedure**

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

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

**S3-231848 Draft CR to TS 33.535-Kakma refresh**

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

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

**S3-231926 living document for HNA**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232168**.

**S3-231927 New UDM service**

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

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

**S3-231928 New AMF service**

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

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

**S3-231929 Addressing Editor’s Note on multiple AMFs registered to the UDM**

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

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

**S3-231930 Updating the NOTE1**

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

**Decision:** The document was **revised to S3-232169**.

**S3-231972 EN removal for multiple AMFs case**

*Type: other For: Approval  
 33.501 v..  
 Source: LG Electronics*

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

**S3-231987 [draftCR] Adding a new security sevice operation provided by the UDM and AMF**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

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

**S3-231988 [draftCR] Adding details on the operator policy and the trigger for the primary authentication**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

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

**S3-231989 [draftCR] Modifying the Editor’s Note on UE reachability**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

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

**S3-232026 HONTRA Clarifications**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-232110**.

**S3-232062 Remove the Editor’s Note related to the message type between AMF and UDM in the HONTRA**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-232193**.

**S3-232063 Remove the Editor’s Note related to the multiple registrations in the HONTRA**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232110 HONTRA Clarifications**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Lenovo*

(Replaces S3-232026)

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

**S3-232123 EN removal multiple AMF scenarios Veriant1**

*Type: other For: Agreement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-231816)

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

**S3-232168 living document for HNA**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231926)

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

**S3-232169 Updating the NOTE1**

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

(Replaces S3-231930)

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

**S3-232193 Remove the Editor’s Note related to the message type between AMF and UDM in the HONTRA**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software, Huawei,HiSilicon*

(Replaces S3-232062)

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

**S3-232211 pCR to living document to TS 33.501: Clarifications and removals of Editor's Notes**

*Type: other For: Approval  
 Source: Ericsson, Lenovo, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces S3-231765)

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

### 4.15 New WID on 5G Security Assurance Specification (SCAS) for the Policy Control Function (PCF)

**S3-231759 Skeleton draft TS 33.528**

*Type: draft TS For: (not specified)  
 33.528 v0.0.0  
 Source: BSI (DE)*

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

**S3-232227 Skeleton draft TS 33.528**

*Type: draft TS For: Approval  
 33.528 v0.0.0  
 Source: BSI (DE)*

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

### 4.16 New WID on Security aspects for 5WWC Phase 2

**S3-231745 Skeleton for 5WWC\_Ph2\_Sec:DraftCR to 33501**

*Type: draftCR For: Agreement  
 33.501 v18.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

### 4.17 Proposed WID for UAS Phase 2 security

**S3-231789 Draft Skeleton for UAS**

*Type: draftCR For: Approval  
 33.256 v17.2.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-232100**.

**S3-232100 Draft Skeleton for UAS**

*Type: draftCR For: Approval  
 33.256 v17.2.0  
 Source: Qualcomm Incorporated*

(Replaces S3-231789)

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

### 4.18 New WID on Automated certicate management in SBA

**S3-231739 Skeleton\_ACM\_SBA\_informative annex**

*Type: draftCR For: Agreement  
 33.310 v18.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231740 Skeleton\_ACM\_SBA\_normative**

*Type: draftCR For: Agreement  
 33.310 v18.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232147**.

**S3-232147 Skeleton\_ACM\_SBA\_normative**

*Type: draftCR For: Agreement  
 33.310 v18.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-231740)

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

### 4.19 New WID on security enhancements for NGRTC

**S3-231969 Skeleton for NG\_RTC\_SEC**

*Type: draftCR For: Approval  
 33.328 v17.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232219**.

**S3-232219 Skeleton for NG\_RTC\_SEC**

*Type: draftCR For: Approval  
 33.328 v17.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231969)

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

### 4.20 New WID on Security Aspects of Enhancement of Support for Edge Computing in 5GC — phase 2

**S3-231961 living CR of EDGE\_Ph2 on TS 33.501**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232216**.

**S3-231963 Living CR of EDGE\_Ph2 on TS 33.558**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232217**.

**S3-232216 living CR of FS\_EDGE\_Ph2**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231961)

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

**S3-232217 living CR of FS\_EDGE\_Ph2**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231963)

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

### 4.21 New WID on AKMA phase 2

**S3-231981 Skeleton for AKMA ph2 WID**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-232126**.

**S3-232126 Skeleton for AKMA ph2 WID**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: China Mobile*

(Replaces S3-231981)

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

### 4.22 New WID on security aspects of MSGin5G Ph2

### 4.23 New WID on security aspects of enablers for Network Automation for 5G - phase 3

**S3-231886 Authorization of selection of participant NWDAF instances in the Federated Learning group.**

*Type: draftCR For: (not specified)  
 33.501 v18.1.0  
 Source: Intel*

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

**S3-231980 Skeleton for Security aspects of enablers for Network Automation for 5G - phase 3**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-232189**.

**S3-232189 Skeleton for Security aspects of enablers for Network Automation for 5G - phase 3**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: China Mobile*

(Replaces S3-231980)

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

### 4.24 New WID on Security aspects of enhanced support of Non-Public Networks phase 2

**S3-231748 Skeleton for Security aspects of enhanced support of Non-Public Networks phase 2**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Ericsson*

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

### 4.25 New WID on Security Aspects of Proximity-based Services in 5GS Phase 2

**S3-231950 Security for U2U relay in 3GPP coverage**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-231982**.

**S3-231951 Emergency service via Layer 2 and Layer 3 UE-to-network relay**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232010**.

**S3-231982 Security for U2U relay in 3GPP coverage**

*Type: draftCR For: Information  
 33.503 v17.3.0  
 Source: Ericsson, China Telecom*

(Replaces S3-231950)

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

**S3-232007 Draft skeleton for ProSe Ph2 normative work**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-232142**.

**S3-232010 Emergency service via Layer 2 and Layer 3 UE-to-network relay**

*Type: draftCR For: Information  
 33.503 v17.3.0  
 Source: Ericsson*

(Replaces S3-231951)

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

**S3-232142 Draft skeleton for ProSe Ph2 normative work**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

(Replaces S3-232007)

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

### 4.26 New WID on Security Aspects of Ranging Based Services and Sidelink Positioning

**S3-232027 Skeleton for TS 33.533**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232194**.

**S3-232028 Scope for TS 33.533**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-232194 Skeleton for TS 33.533**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-232027)

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

**S3-232195 Draft TS 33.533 v0.0.0**

*Type: draft TS For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

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

### 4.27 New WID on enhanced security aspects of SEAL for vertical

**S3-231994 [draftCR] Living document for SEAL security for network domain interfaces**

*Type: draftCR For: Approval  
 33.434 v17.3.0  
 Source: Samsung*

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

### 4.28 New WID on application enablement aspects for subscriber-aware northbound API access

**S3-231957 skeleton draft CR 33.122 on SNAAPPY**

*Type: draftCR For: (not specified)  
 33.122 v17.1.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-232152**.

**S3-232152 skeleton draft CR 33.122 on SNAAPPY**

*Type: draftCR For: (not specified)  
 33.122 v17.1.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-231957)

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

## 5 Rel-18 Studies

### 5.1 Study on 5G security enhancement against false base stations

### 5.2 Study on Security Impacts of Virtualisation

### 5.3 Study on Security Aspects of Proximity Based Services in 5GS Phase 2

**S3-231779 Update to Conclusion to KI #1**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231780 Update to TR 33.740 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231781 Update to TR 33.740 Conclusion for KI#4**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231782 Evaluation TR 33.740 Sol #12**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

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

**S3-231783 New Solution using Re-keying for L2 U2U Relay selection**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-232111**.

**S3-231784 New solution KNRP ID privacy L2 U2U Relay reselection**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-232112**.

**S3-231785 New solution Model A Relay discovery using multiple key sets**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-232113**.

**S3-231798 Discussion on ProSe UE-to-UE Relay discovery security**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated, Deutsche Telekom, Philips International B.V.*

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

**S3-231799 Conclusion of KI#1**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated, Deutsche Telekom, Philips International B.V.*

**Decision:** The document was **revised to S3-232202**.

**S3-231800 Updates on the solution #23**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-232203**.

**S3-231801 Updates on the solution #24**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-232204**.

**S3-231802 Update the evaluation of solution #8**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231803 Update the evaluation of solution #9**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231804 Add an evaluation of solution #11**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231805 Conclusion of KI#5**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231820 ProSe - Conclusion on KI#2**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Philips International B.V.*

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

**S3-231821 ProSe - Conclusion on KI#3**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Philips International B.V.*

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

**S3-231822 ProSe - ProSe - New solution KI#1, 2**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-232125**.

**S3-231844 Conclusion for the KI#2**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231845 Conclusion for the KI#3**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231847 Update the conclusion for the KI#6**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231855 Conclusion for KI #1 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231860 pCR to update TR33.740 Solution 11**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231864 Evaluation of TR33.740 Solution 11**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231866 Update to the evaluation of TR33.740 Solution 23**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231867 Update to the evaluation of TR33.740 Solution 24**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231868 Update to conclusion of KI#2 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231869 Update to conclusion of KI#3 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231870 Update to conclusion of KI#4 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231871 Update to conclusion of KI#6 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231923 Conclude the KI#1 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231924 Update to the KI#2 conclusion in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232167**.

**S3-231956 Update to conclusions on KI#2**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Ericsson*

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

**S3-231998 EN Resolution of Sol #33**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Samsung, KT*

**Decision:** The document was **revised to S3-232221**.

**S3-231999 Conclusion on KI #5**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Samsung, KT*

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

**S3-232008 pCR to TR33.740 Update Solution16 for removing EN**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: CATT*

**Decision:** The document was **revised to S3-232140**.

**S3-232009 pCR to TR33.740 Update Solution28 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: CATT*

**Decision:** The document was **revised to S3-232141**.

**S3-232011 pCR to TR33.740 Conclusion of key issue #1**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: CATT*

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

**S3-232048 Conclusion on Key Issue #1 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232049 Conclusion on Key Issue #2 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232050 Conclusion on Key Issue #3 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232051 Discussion on the provisioning of long term credentials in the UE-to-UE Relay Communication**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232052 Provision the long term credentials during the discovery procedure**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232053 Provision the long term credentials during the service authorization procedure**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232054 Remove the Editor's Note and evaluate the solution #7 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-232191**.

**S3-232055 Remove the Editor's Notes of solution #20 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232056 Update to solution #30 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-232192**.

**S3-232057 Update evaluation to solution #32 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232082 Conclusion for KI#5**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: OPPO*

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

**S3-232083 Further Conclusion on KI#2**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: OPPO*

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

**S3-232111 New Solution using Re-keying for L2 U2U Relay selection**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-231783)

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

**S3-232112 New solution KNRP ID privacy L2 U2U Relay reselection**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-231784)

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

**S3-232113 New solution Model A Relay discovery using multiple key sets**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-231785)

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

**S3-232125 ProSe - ProSe - New solution KI#1, 2**

*Type: pCR For: (not specified)  
 33.740 v0.6.0  
 Source: Philips International B.V.*

(Replaces S3-231822)

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

**S3-232140 pCR to TR33.740 Update Solution16 for removing EN**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: CATT*

(Replaces S3-232008)

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

**S3-232141 pCR to TR33.740 Update Solution28 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: CATT*

(Replaces S3-232009)

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

**S3-232146 Draft TR 33.740**

*Type: draft TR For: Approval  
 33.740 v0.7.0  
 Source: CATT*

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

**S3-232167 Update to the KI#2 conclusion in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Huawei, HiSilicon, ZTE, China Telecom, Ericsson*

(Replaces S3-231924)

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

**S3-232191 Remove the Editor's Note and evaluate the solution #7 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-232054)

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

**S3-232192 Update to solution #30 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-232056)

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

**S3-232202 Conclusion of KI#1**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated, Deutsche Telekom, Philips International B.V.*

(Replaces S3-231799)

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

**S3-232203 Updates on the solution #23**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

(Replaces S3-231800)

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

**S3-232204 Updates on the solution #24**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Qualcomm Incorporated*

(Replaces S3-231801)

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

**S3-232221 EN Resolution of Sol #33**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Samsung, KT*

(Replaces S3-231998)

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

### 5.4 Study on privacy of identifiers over radio access

### 5.5 Study on Standardising Automated Certificate Management in SBA

**S3-231735 pCR Resolving EN in conclusion of ACM\_SBA KI#5**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232129**.

**S3-231736 pCR Conclusion of ACM\_SBA KI#9**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232132**.

**S3-231737 pCR Conclusion of ACM\_SBA KI#8**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232131**.

**S3-231738 pCR Conclusion of ACM\_SBA KI#6**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232130**.

**S3-231769 KI#2 conclusion update**

*Type: pCR For: (not specified)  
 33.876 v0.6.0  
 Source: Ericsson LM*

**Abstract:**

Update KI-2 (Initial Trust) Conclusion

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

**S3-231840 Updating evaluation for solution#3**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: China Telecommunications, Nokia, Nokia Shanghai Bell*

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

**S3-231906 Add evaluation to solution #18**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232101**.

**S3-231907 Add conclusion for key issue #9**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231937 Resolution of ENs and evaluation of Sol#7 KI#6**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232099**.

**S3-231938 Analysis and conclusion for key issue #8**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231939 Conclusion for key issue #6**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-232061 Conclusion on Key Issue #4 in TR 33.876**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-232175**.

**S3-232099 Resolution of ENs and evaluation of Sol#7 KI#6**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231937)

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

**S3-232101 Add evaluation to solution #18**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231906)

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

**S3-232129 pCR Resolving EN in conclusion of ACM\_SBA KI#5**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell, Orange*

(Replaces S3-231735)

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

**S3-232130 pCR Conclusion of ACM\_SBA KI#6**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-231738)

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

**S3-232131 pCR Conclusion of ACM\_SBA KI#8**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-231737)

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

**S3-232132 pCR Conclusion of ACM\_SBA KI#9**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-231736)

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

**S3-232171 Resolution of ENs and evaluation of Sol#7 KI#6**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-232175 Conclusion on Key Issue #4 in TR 33.876**

*Type: pCR For: Approval  
 33.876 v0.6.0  
 Source: Beijing Xiaomi Mobile Software, Nokia, Nokia Shanghai Bell*

(Replaces S3-232061)

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

**S3-232225 New draft TR 33.876**

*Type: draft TR For: Approval  
 33.876 v0.7.0  
 Source: Nokia Poland*

**Decision:** The document was **email approval**.

### 5.6 New SID on AKMA phase 2

**S3-231760 Discussion on handling of LI for AKMA ph2 services**

*Type: discussion For: Endorsement  
 33.737 v..  
 Source: NDRE*

**Abstract:**

Proposal for SA3 to do normative work in support of AKMA LI in roaming.

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

**S3-231761 Discussion on handling of LI for AKMA ph2 services**

*Type: discussion For: Endorsement  
 33.737 v..  
 Source: NDRE, Nokia, Nokia Shanghai Bell, Lenovo*

**Abstract:**

Proposal for SA3 to do normative work in support of AKMA LI in roaming.

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

**S3-231812 solution 7 correction**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell,*

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

**S3-231813 solution 7 enhancement**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell,*

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

**S3-231814 KI1 conclusion for case 1 and case3**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell, Xiaomi, Lenovo*

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

**S3-231851 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231875 Adding evaluation to Solution#8**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231925 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: Huawei, HiSilicon*

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

### 5.7 Study of Security aspect of home network triggered primary authentication

### 5.8 Study on security aspects of enablers for Network Automation for 5G – phase 3

**S3-231729 Resolution of EN related to encryption in KI#3 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Intel*

**Decision:** The document was **revised to S3-232151**.

**S3-231730 pCR\_Resolution of ENs of KI#1 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231731 pCR Conclusion of eNA\_SEC\_Ph3 KI#4**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo*

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

**S3-231732 pCR Resolution of EN of KI#2 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231733 Discussion paper on eNA\_SEC\_Ph3 KI#1 conclusions**

*Type: discussion For: Discussion  
 33.738 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231734 LS Out on Authorization of NF service consumer for AIML model storage and sharing in eNA**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231746 Resolve first EN to conclusion to KI#3 "Security for AI/ML model storage and sharing"**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Ericsson*

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

**S3-231747 Resolve second EN to conclusion to KI#3 "Security for AI/ML model storage and sharing"**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Ericsson*

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

**S3-231836 Editorial update to conclusion on KI#5**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Telecommunications*

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

**S3-231837 Editorial update to KI#3**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Telecommunications*

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

**S3-231838 Updating conclusion on KI#1**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-232117**.

**S3-231839 Updating conclusion on KI#2**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Telecommunications*

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

**S3-231853 New solution for KI#5**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: ZTE Corporation*

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

**S3-231856 Add conclusion for KI#5**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: ZTE Corporation*

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

**S3-231903 Add conclusion for key issue #2**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231915 Add Evaluation for Solution for Authorization for eNA Roaming**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232164**.

**S3-231916 Conclusion Update for key issue #1**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231978 Update conclusion for key issue #5**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-232186**.

**S3-231979 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Mobile*

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

**S3-232021 Update to Solution #9 in eNA**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Lenovo*

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

**S3-232022 Update to Solution #20 in eNA**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-232105**.

**S3-232105 Update to Solution #20 in eNA**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Lenovo*

(Replaces S3-232022)

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

**S3-232117 Updating conclusion on KI#1**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: China Telecommunications*

(Replaces S3-231838)

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

**S3-232151 Resolution of EN related to encryption in KI#3 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Intel, Ericsson*

(Replaces S3-231729)

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

**S3-232164 Add Evaluation for Solution for Authorization for eNA Roaming**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231915)

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

**S3-232186 Update conclusion for key issue #5**

*Type: pCR For: Approval  
 33.738 v0.7.0  
 Source: China Mobile*

(Replaces S3-231978)

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

**S3-232229 draft TR 33.738 0.7.0**

*Type: draft TR For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

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

**S3-232230 draft TR 33.738 1.1.0**

*Type: draft TR For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

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

### 5.9 Study on Security Enhancement of support for Edge Computing — phase 2

**S3-231787 Updates for Solution #26**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: InterDigital Communications*

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

**S3-231788 A new solution for KI#2.3**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: InterDigital Communications*

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

**S3-231859 Update solution#6**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231876 New key issue on EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232209**.

**S3-231877 A solution for EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232210**.

**S3-231878 Update the key issue on EAS discovery security**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232206**.

**S3-231879 Update solution #23 EAS discovery procedure protection**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232207**.

**S3-231880 Update conclusion on EAS discovery security**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

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

**S3-231881 Resolving EN in solution #25**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232208**.

**S3-231882 Resolving ENs in solution #27**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

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

**S3-231883 Conclusion for EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

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

**S3-231885 Update conclusion on authorization between EESes**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

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

**S3-231943 Resolving the EN about the security of the communication between V-EASDF and H-EASDF/DNS**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231944 Resolving the EN about non-roaming case on the configuration of EASDF**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231945 update to conclusion for KI#1.2**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232174**.

**S3-231958 Adding evalution for Sol#26**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232214**.

**S3-231959 Adding evalution for sol#27**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232215**.

**S3-231960 Resolving EN of Conclusion of KI#2.6**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231962 Resolving EN of Conclusion of KI#2.1**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231975 MEC-Resolving the EN of the conclusion of KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Apple*

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

**S3-231976 MEC-New key issue on verification of UE provided information**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Apple*

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

**S3-231990 Discussion paper on performing only server side authentication**

*Type: discussion For: Discussion  
 33.739 v..  
 Source: Samsung*

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

**S3-231991 [draft] LS on mutual authentication requirement in EDGE**

*Type: LS out For: Approval  
 to SA6  
 Source: Samsung*

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

**S3-231992 Updates to conclusion#2.1**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Samsung*

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

**S3-231993 Updates to conclusion#2.2**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Samsung, Huawei, HiSilicon, Intel, ZTE, Thales, CableLabs*

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

**S3-232065 Update KI#2.1 conclusion of TR 33.739**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Xiaomi communications*

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

**S3-232174 update to conclusion for KI#1.2**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei,HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-231945)

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

**S3-232206 Update the key issue on EAS discovery security**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

(Replaces S3-231878)

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

**S3-232207 Update solution #23 EAS discovery procedure protection**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

(Replaces S3-231879)

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

**S3-232208 Resolving EN in solution #25**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

(Replaces S3-231881)

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

**S3-232209 New key issue on EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson, Apple*

(Replaces S3-231876)

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

**S3-232210 A solution for EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Ericsson*

(Replaces S3-231877)

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

**S3-232214 Adding evalution for Sol#26**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231958)

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

**S3-232215 Adding evalution for sol#27**

*Type: pCR For: Approval  
 33.739 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231959)

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

**S3-232218 new draft TR 33.739**

*Type: draft TR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

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

### 5.10 Study on Personal IoT Networks Security Aspects

**S3-231724 DP on the need and means of alignment between PIN work in SA3 and SA6**

*Type: discussion For: Endorsement  
 33.882 v..  
 Source: InterDigital, Inc.*

**Abstract:**

The goal of this discussion paper is to analyse the security of PINAPP procedures specified in TS 23.558 and define means of alignment between security aspects for PIN and existing PIN work in SA6.

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

**S3-231725 Draft Reply LS on Alignment of SA3 security aspects for Personal IoT Networks**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a Draft Reply LS to S6-230792/S3-231714 from SA6 on the Alignment of SA3 security aspects for Personal IoT Networks.

**Decision:** The document was **revised to S3-232118**.

**S3-231726 PCR TR 33.882 New KI#Y**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: InterDigital, Inc.*

**Abstract:**

The purpose of this pCR is to propose a new Key Issue in TR 33.882 to study security solutions to support PINAPP work in SA6.

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

**S3-231727 PCR TR 33.882 New KI#X**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: InterDigital, Inc.*

**Abstract:**

The purpose of this pCR is to propose a new Key Issue in TR 33.882 to study security solutions to support PINAPP work in SA6.

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

**S3-231728 PCR TR 33.882 KI#1 Modification**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: InterDigital, Inc.*

**Abstract:**

The purpose of this pCR is to modify the existing TR 33.882 Key Issue to study security solutions to support PINAPP work in SA6.

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

**S3-231811 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231825 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: THALES*

**Abstract:**

It proposes a conclusion for Key Issue #1 of TS 33.882.

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

**S3-231831 Conclusions to KI#1**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231832 Conclusions to KI#2**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231833 Editorial changes in solution 3**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231834 Resolution of editor’s note in solution 10**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231849 Add conclusion for KI#1**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231850 Add conclusion for KI#2**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231872 Conclusion for KI#2: Authorization of PIN capabilities.**

*Type: pCR For: (not specified)  
 33.882 v0.6.0  
 Source: Intel*

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

**S3-231934 add conclusion to KI#1**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-232070 Add conclusion for KI #2 of TR 33.882**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Xiaomi communications*

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

**S3-232071 Add conclusion to KI #1 of TR 33.882**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Xiaomi communications*

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

**S3-232072 New Sol for KI #2 of TR 33.882**

*Type: pCR For: Approval  
 33.882 v0.6.0  
 Source: Xiaomi communications*

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

**S3-232118 Reply LS on Alignment of SA3 security aspects for Personal IoT Networks**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: InterDigital, Inc.*

(Replaces S3-231725)

**Abstract:**

This contribution is a Reply LS to S6-230792/S3-231714 from SA6 on the Alignment of SA3 security aspects for Personal IoT Networks. It is draft\_S3-231725-r4 approved at SA3#110Adhoc-e.

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

**S3-232156 Draft TR 33.882 v0.7.0 for FS\_PIN\_Sec**

*Type: draft TR For: Approval  
 33.882 v0.7.0  
 Source: vivo*

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

### 5.11 Study on SNAAPP security

**S3-231884 Resolving ENs in solution #6**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-232205**.

**S3-231908 New Solution on Revocation using Short-lived Token**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232160**.

**S3-231909 Conclusion on Revocation for key issue#2**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232161**.

**S3-231910 Update on solution #1**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232162**.

**S3-231911 New Solution on Resource Owner Authorization using Authorization Code Grant**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231912 Address EN on solutiion #1 username mapping**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231913 Address EN on solutiion #1 message of scope**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232163**.

**S3-231914 Conclusion on Authorization for key issue#2**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231946 Sol#1 Adding evaluation - being not in line with OAuth 2.0 architecture**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232119**.

**S3-231947 Sol#3 Resolving ENs on scopes and claims**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232120**.

**S3-231948 Sol#3 Evaluation related to additional scope and its restriction**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232121**.

**S3-231949 Sol#3 Evaluation on exposure of UE identity**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232122**.

**S3-232000 Resolving EN on Sol#11**

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

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

**S3-232001 Updates to Sol#11**

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

**Decision:** The document was **revised to S3-232222**.

**S3-232002 Updates to Sol#12**

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

**Decision:** The document was **revised to S3-232224**.

**S3-232003 Conclusion**

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

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

**S3-232023 Update to Solution #4 in Snaappy**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-232106**.

**S3-232024 Update to Solution #5 in Snaappy**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-232107**.

**S3-232074 Add evaluation to Sol #9 of TR 33.884**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

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

**S3-232075 Add evaluation to Sol #10 of TR 33.884**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

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

**S3-232076 KI#1 and KI#2 New Sol on resource owner policies based authorization mechanism**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-232144**.

**S3-232077 KI#2 New Sol on User authorization revocation for API invocation procedure**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-232145**.

**S3-232078 Resolve EN for Sol #9 of TR 33.884**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

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

**S3-232079 Update conclusion of TR 33.884**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

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

**S3-232095 Addressing editor's notes for solution 6.2**

*Type: pCR For: Agreement  
 33.884 v1.0.0  
 Source: NTT DOCOMO INC.*

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

**S3-232096 Addressing editor's notes for solution 6.7**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-232153**.

**S3-232097 New solution: authorization revocation for persistent changes**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-232154**.

**S3-232106 Update to Solution #4 in Snaappy**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Lenovo*

(Replaces S3-232023)

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

**S3-232107 Update to Solution #5 in Snaappy**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Lenovo, Samsung*

(Replaces S3-232024)

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

**S3-232119 Sol#1 Adding evaluation - being not in line with OAuth 2.0 architecture**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-231946)

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

**S3-232120 Sol#3 Resolving ENs on scopes and claims**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-231947)

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

**S3-232121 Sol#3 Evaluation related to additional scope and its restriction**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-231948)

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

**S3-232122 Sol#3 Evaluation on exposure of UE identity**

*Type: pCR For: (not specified)  
 33.884 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-231949)

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

**S3-232144 KI#1 and KI#2 New Sol on resource owner policies based authorization mechanism**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

(Replaces S3-232076)

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

**S3-232145 KI#2 New Sol on User authorization revocation for API invocation procedure**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Xiaomi communications*

(Replaces S3-232077)

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

**S3-232153 Addressing editor's notes for solution 6.7**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-232096)

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

**S3-232154 New solution: authorization revocation for persistent changes**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-232097)

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

**S3-232160 New Solution on Revocation using Short-lived Token**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231908)

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

**S3-232161 Conclusion on Revocation for key issue#2**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231909)

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

**S3-232162 Update on solution #1**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231910)

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

**S3-232163 Address EN on solutiion #1 message of scope**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231913)

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

**S3-232200 new draft TR 33.884**

*Type: draft TR For: Approval  
 33.884 v1.1.0  
 Source: NTT DOCOMO INC.*

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

**S3-232205 Resolving ENs in solution #6**

*Type: pCR For: Approval  
 33.884 v1.0.0  
 Source: Ericsson*

(Replaces S3-231884)

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

**S3-232222 Updates to Sol#11**

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

(Replaces S3-232001)

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

**S3-232224 Updates to Sol#12**

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

(Replaces S3-232002)

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

### 5.12 Study on enhanced security for network slicing Phase 3

**S3-231751 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Ericsson*

**Abstract:**

Conclusion for KI#2

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

**S3-231752 Conclusion for KI#3**

*Type: pCR For: (not specified)  
 33.886 v0.4.0  
 Source: Ericsson*

**Abstract:**

Conclusion for KI#3

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

**S3-231792 Adding some evaluation to solution #1**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-231793 Adding some evaluation to solution #2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-231862 Update KI#2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: ZTE Corporation*

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

**S3-231863 New solution for KI#2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: ZTE Corporation*

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

**S3-231865 Add conclusion for KI#2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: ZTE Corporation*

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

**S3-231888 KI#1 update**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-231889 new solution to KI#2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-231890 conclusions to KI#2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-231891 update to solution#1**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-231892 conclusions to KI#3**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-231970 EN addition to solution #2**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: LG Electronics*

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

**S3-231971 Minor editorial correction to solution #1**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: LG Electronics*

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

**S3-232073 New Sol for KI #3 of TR 33.886**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Xiaomi communications*

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

**S3-232084 update to KI#2 temporary network slice**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232085 solution for KI#2 temporary network slice for NSSAA**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232086 evaluation for KI#2 temporary network slice for NSSAA**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232087 conclusion for KI#2 temporary network slice for NSSAA**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232088 evaluation for KI#3 network slice admission control**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232226**.

**S3-232089 conclusion for KI#3 network slice admission control**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232134 Draft TR 33.886 for eNS3**

*Type: draft TR For: Approval  
 33.886 v0.5.0  
 Source: Huawei Tech.(UK) Co.. Ltd*

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

**S3-232226 evaluation for KI#3 network slice admission control**

*Type: pCR For: Approval  
 33.886 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, LG Electronics*

(Replaces S3-232088)

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

### 5.13 Study on Security aspects for 5WWC Phase 2

### 5.14 Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN

### 5.15 Study on security support for Next Generation Real Time Communication services

**S3-231762 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.890 v0.6.0  
 Source: Ericsson, BT*

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

**S3-231763 Resolve EN for conclusion for key issue #2**

*Type: pCR For: Approval  
 33.890 v0.6.0  
 Source: Ericsson*

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

**S3-231764 LS on third party specific user identities in IMS**

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

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

**S3-231790 Update of the conclusion on data channel security**

*Type: pCR For: Approval  
 33.890 v0.6.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-232098**.

**S3-231967 conclusion on key issue 1**

*Type: pCR For: Approval  
 33.890 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231968 Resolving EN in Conclusions for KI #2**

*Type: pCR For: Approval  
 33.890 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-232098 Update of the conclusion on data channel security**

*Type: pCR For: Approval  
 33.890 v0.6.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon, Ericsson*

(Replaces S3-231790)

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

**S3-232220 new draft TR 33.890**

*Type: draft TR For: Approval  
 33.890 v0.7.0  
 Source: Huawei, HiSilicon*

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

### 5.16 Study on security aspects of enhanced support of Non-Public Networks phase 2

**S3-231749 Updated conclusion of KI#2 Authentication for UE access to hosting network**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Ericsson*

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

**S3-231753 Discussion for removal of Editor's note in conclusion for trusted N3GPP access**

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

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

**S3-231754 Updated conclusion for KI#1 regarding trusted access**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Ericsson*

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

**S3-231755 Updated conclusion for KI#1 regarding untrusted access**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Ericsson*

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

**S3-231756 Updated conclusion for KI#1 regarding N5CW access**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Ericsson*

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

**S3-231757 Removing Editor’s notes in Solution #14**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Ericsson*

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

**S3-231829 Resolution of EN – conclusion to KI#1 – Untrusted access**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-232223**.

**S3-231830 Resolution of EN – conclusion to KI#1 – Trusted access**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Intel*

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

**S3-231917 New Solution on Implicit Authentication for Serving Network for NSWO support in SNPN**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231918 Conclusion for Implicit Authentication for Serving Network related to NSWO**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231932 Delete Editor's Note to sol#18**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232170**.

**S3-231933 Update conclusion 7.1.3**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-232025 Update to Solution #16**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-232109**.

**S3-232066 Update conclusion of NSWO support in SNPN**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Xiaomi communications*

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

**S3-232067 Update solution #2 of TR 33.85**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-232143**.

**S3-232092 Solutions using credential holder for KI#1**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: CableLabs*

**Decision:** The document was **revised to S3-232136**.

**S3-232093 Additional conclusions on credential holder for KI#1**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: CableLabs*

**Decision:** The document was **revised to S3-232137**.

**S3-232109 Update to Solution #16**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Lenovo*

(Replaces S3-232025)

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

**S3-232133 draft TR 33.858 v1.1.0**

*Type: draft TR For: (not specified)  
 33.858 v1.1.0  
 Source: Ericsson*

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

**S3-232136 Solutions using credential holder for KI#1**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: CableLabs, Charter Communications*

(Replaces S3-232092)

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

**S3-232137 Additional conclusions on credential holder for KI#1**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: CableLabs, Charter Communications*

(Replaces S3-232093)

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

**S3-232143 Update solution #2 of TR 33.85**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Xiaomi communications*

(Replaces S3-232067)

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

**S3-232170 Delete Editor's Note to sol#18**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231932)

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

**S3-232223 Resolution of EN – conclusion to KI#1 – Untrusted access**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-231829)

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

### 5.17 Study on Security of Phase 2 for UAS, UAV and UAM

### 5.18 Study to enable URSP rules to securely identify Applications

**S3-231770 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Lenovo, AT&T, Broadcom, CableLabs, CATT, China Mobile, Intel, LGE, NEC, Nokia Shanghai Bell, Nokia*

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

**S3-231828 Resolution of editor’s note in solution 1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231874 Adding evaluation to Solution#3**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-231893 new solution to KI#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231894 conclusions to KI#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-231977 USIA- Adding the evaluation for solution#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Apple*

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

### 5.19 Study on Security Aspects of Ranging Based Services and Sidelink Positioning

**S3-231771 Protection of broadcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-232233**.

**S3-231806 Update of a conclusion for KI #3**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231807 Updates on the solution #15**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-232201**.

**S3-231808 Updates on the solution #12**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231809 Update on solution #9**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231810 conclusion for KI#5**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231823 Ranging - New solution KI#5**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-232124**.

**S3-231824 Ranging - Update KI#1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Philips International B.V.*

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

**S3-231852 Update the key issue 5**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231854 A new solution for the key issue 5 (broadcast)**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231857 A new solution for the key issue 5 (groupcast)**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231858 Add conclusion for KI#3**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231861 Conclusion for the key issue 5**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: ZTE Corporation*

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

**S3-231873 New Key issue for Monitoring and detecting attacks on ranging devices and services**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-231895 update to solution 15**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232157**.

**S3-231896 update to solution 1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232158**.

**S3-231897 conclusion on key issue 1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231920 Address EN and update evaluation to Sol#13**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232165**.

**S3-231921 update to the conclusion of KI#3 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231922 conclusion for the KI#4 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232166**.

**S3-231954 New solution with Network assisted SL positioning discovery security material provisioning**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Ericsson*

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

**S3-231955 New solution with Network assisted SL positioning provisioning long term key**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Ericsson*

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

**S3-232004 New solution on security of Ranging or SL positioning groupcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-232127**.

**S3-232005 New solution on security of Ranging or SL positioning broadcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: OPPO*

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

**S3-232006 New solution on Protecting Ranging/SL Positioning discovery out of network coverage**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: BUPT, OPPO*

**Decision:** The document was **revised to S3-232138**.

**S3-232012 pCR to TR33.893 New solution for provisioning broadcast protection keys in coverage**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: CATT*

**Decision:** The document was **revised to S3-232148**.

**S3-232013 pCR to TR33.893 New solution for provisioning groupcast/broadcast protection keys out of coverage**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: CATT*

**Decision:** The document was **revised to S3-232149**.

**S3-232015 pCR to TR33.893 New solution for protecting groupcast/broadcast messages**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: CATT*

**Decision:** The document was **revised to S3-232150**.

**S3-232029 33.893: Additional Evaluation for Solution #1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232179**.

**S3-232030 33.893: Update to Solution #2**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232183**.

**S3-232031 33.893: Resolve the Editor’s Note in Solution #8**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232180**.

**S3-232032 33.893: Resolve the Editor’s Note in Solution #14**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232188**.

**S3-232033 33.893: New Solution on Privacy Protection of Located UE during its Discovery and Selection**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232181**.

**S3-232034 33.893: New Solution on Client UE Authorization for Service Exposure through the Network**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232184**.

**S3-232035 33.893: New Solution on Client UE Authorization for Service Exposure through PC5**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

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

**S3-232036 33.893: New Solution on Protection for Groupcast of SLPP Signalling**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

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

**S3-232037 33.893: New Solution on Protection for Broadcast of SLPP Signalling**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

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

**S3-232038 33.893: Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232182**.

**S3-232039 33.893: Further Conclusions for KI#2 on Authorization for Service Exposure**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232185**.

**S3-232040 33.893: Further Conclusions for KI#2 on Authorization of UE Role**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232187**.

**S3-232041 33.893: Further Conclusions for KI#3**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

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

**S3-232042 33.893: Conclusion on Key Issue #4**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232190**.

**S3-232058 Update to conclusion for KI#2 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232059 Remove the Editor’s Note of solution #9 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232060 New solution on authorization of MO-LR procedure for Network assisted SL Positioning in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232094 New solution on KI#5 protection of broadcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: BUPT*

**Decision:** The document was **revised to S3-232139**.

**S3-232124 Ranging - New solution KI#5**

*Type: pCR For: (not specified)  
 33.893 v0.6.0  
 Source: Philips International B.V.*

(Replaces S3-231823)

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

**S3-232127 New solution on security of Ranging/SL positioning groupcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: OPPO*

(Replaces S3-232004)

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

**S3-232138 New solution on Protecting Ranging/SL Positioning discovery out of network coverage**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: BUPT, OPPO*

(Replaces S3-232006)

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

**S3-232139 New solution on KI#5 protection of broadcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: BUPT*

(Replaces S3-232094)

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

**S3-232148 pCR to TR33.893 New solution for provisioning broadcast protection keys in coverage**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: CATT*

(Replaces S3-232012)

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

**S3-232149 pCR to TR33.893 New solution for provisioning groupcast/broadcast protection keys out of coverage**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: CATT*

(Replaces S3-232013)

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

**S3-232150 pCR to TR33.893 New solution for protecting groupcast/broadcast messages**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: CATT*

(Replaces S3-232015)

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

**S3-232157 update to solution 15**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231895)

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

**S3-232158 update to solution 1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231896)

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

**S3-232165 Address EN and update evaluation to Sol#13**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231920)

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

**S3-232166 conclusion for the KI#4 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231922)

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

**S3-232179 33.893: Additional Evaluation for Solution #1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232029)

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

**S3-232180 33.893: Resolve the Editor’s Note in Solution #8**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232031)

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

**S3-232181 33.893: New Solution on Privacy Protection of Located UE during its Discovery and Selection**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232033)

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

**S3-232182 33.893: Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232038)

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

**S3-232183 33.893: Update to Solution #2**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232030)

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

**S3-232184 33.893: New Solution on Client UE Authorization for Service Exposure through the Network**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232034)

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

**S3-232185 33.893: Further Conclusions for KI#2 on Authorization for Service Exposure**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232039)

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

**S3-232187 33.893: Further Conclusions for KI#2 on Authorization of UE Role**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232040)

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

**S3-232188 33.893: Resolve the Editor’s Note in Solution #14**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232032)

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

**S3-232190 33.893: Conclusion on Key Issue #4**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Xiaomi Technology*

(Replaces S3-232042)

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

**S3-232197 Draft TR 33.893 v0.7.0**

*Type: draft TR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

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

**S3-232201 Updates on the solution #15**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Qualcomm Incorporated*

(Replaces S3-231807)

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

**S3-232233 Protection of broadcast communication**

*Type: pCR For: Approval  
 33.893 v0.6.0  
 Source: Lenovo*

(Replaces S3-231771)

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

### 5.20 Study on Security and Privacy of AI/ML-based Services and Applications in 5G

**S3-231786 Authorization of AF for Policy Management**

*Type: pCR For: Approval  
 33.898 v0.5.0  
 Source: InterDigital Communications*

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

**S3-231904 Add evaluation for solution # 1**

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

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

**S3-231905 Add conclusion for key issue #1**

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

**Decision:** The document was **revised to S3-232159**.

**S3-231983 Add evaluation on sol#3**

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

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

**S3-231984 Further evaluation on sol#4**

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

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

**S3-231985 Add evaluation on sol#5**

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

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

**S3-231986 Update Sol #6 for AIML Security**

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

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

**S3-232080 User Consent in AI/ML**

*Type: discussion For: Endorsement  
 Source: OPPO*

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

**S3-232081 Further Conclusion on KI#1**

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

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

**S3-232159 Add conclusion for key issue #1**

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

(Replaces S3-231905)

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

**S3-232231 Draft TR 33.898 v0.6.0**

*Type: draft TR For: (not specified)  
 33.898 v0.6.0  
 Source: OPPO*

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

### 5.21 Study on applicability of the Zero Trust Security principles in mobile networks

**S3-231722 Alignment of 3GPP’s 5G Security to the fifth NIST Tenet of ZTA**

*Type: pCR For: (not specified)  
 33.894 v0.5.0  
 Source: Ericsson*

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

**S3-231723 Alignment of 3GPP’s 5G Security to the sixth NIST Tenet of ZTA**

*Type: pCR For: (not specified)  
 33.894 v0.5.0  
 Source: Ericsson*

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

**S3-231835 New Key Issue: Support for Policy Decision Points within 5GC SBA**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: MITRE Corporation, Nokia, Nokia Shanghai Bell, Lenovo*

**Abstract:**

This key issue studies the adoption of PDPs within the SBA and the impact on 5G SBA interfaces.

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

**S3-231940 Evaluation of tenet 4 on resource access**

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

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

**S3-231941 Additions to the evaluation of tenet 5 on security posture**

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

**Decision:** The document was **revised to S3-232102**.

**S3-231942 Updates to the evaluation of tenet 6 on access security**

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

**Decision:** The document was **revised to S3-232103**.

**S3-232014 Update to Tenet #5**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: Lenovo, US National Security Agency, Charter Communications, Rakuten Mobile, Center for Internet Security, Cablelabs, Intel*

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

**S3-232016 Update to Tenet #6**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: Lenovo, US National Security Agency, Charter Communications, Rakuten Mobile, Center for Internet Security, Cablelabs, Intel*

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

**S3-232017 Cleanup of Tenet #7**

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

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

**S3-232018 Update to Key Issue #1**

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

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

**S3-232019 Data collection for Security Monitoring**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs*

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

**S3-232020 NF State related data collection for Security Monitoring**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs*

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

**S3-232102 Additions to the evaluation of tenet 5 on security posture**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: Huawei, HiSilicon, Ericsson, Lenovo*

(Replaces S3-231941)

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

**S3-232103 Updates to the evaluation of tenet 6 on access security**

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

(Replaces S3-231942)

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

**S3-232172 Additions to the evaluation of tenet 5 on security posture**

*Type: pCR For: Approval  
 33.894 v0.5.0  
 Source: Huawei, HiSilicon, Ericsson, Lenovo*

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

**S3-232173 Updates to the evaluation of tenet 6 on access security**

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

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

**S3-232228 draft TR 33.894 v0.6.0**

*Type: draft TR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo*

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

### 5.22 Study of Security aspects on User Consent for 3GPP Services Phase 2

**S3-231741 LS out on user consent in roaming scenarios**

*Type: LS out For: Approval  
 to SA2, cc GSMA  
 Source: Nokia, Nokia Shanghai Bell*

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

### 5.23 Study on security enhancements for 5G multicast-broadcast services Phase 2

**S3-231750 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Ericsson*

**Abstract:**

Conclusion for KI#2

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

**S3-231794 A new solution for mitigating privacy attacks exploiting group paging with TMGI**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231795 Conclusion for Key Issue #2**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231796 An update on the evaluations of solution #1**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231797 Conclusion for Key Issue #1**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-231898 A new solution to address the privacy issue with TMGI**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231899 conclusion on key issue 2**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231900 Update to the solution 3**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-232116**.

**S3-231901 conclusion on key issue 1**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-231995 [MBS] Updates to solution#1**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Samsung*

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

**S3-231996 [MBS] Evaluation for solution#3**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Samsung*

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

**S3-231997 [MBS] Conclusion for Key Issue#1**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Samsung*

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

**S3-232115 TR 33.883 for 5MBS security**

*Type: draft TR For: (not specified)  
 33.883 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232116 Update to the solution 3**

*Type: pCR For: Approval  
 33.883 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-231900)

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

### 5.24 Study on enhanced Security Aspects of the 5G Service Based Architecture

### 5.25 Study on Security Aspects of Satellite Access

**S3-231742 Discussion on NTN AF Authorization (Rel18)**

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

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

**S3-231743 Solution for AF Authorization**

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

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

**S3-231744 Conclusion for KI #1**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232043 33.700-28: Update to Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232176**.

**S3-232044 33.700-28: Solution on AF Authorization for Providing Satellite Coverage Information**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232198**.

**S3-232045 33.700-28: Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-232199**.

**S3-232046 33.700-28: New Key Issue on Protection of Satellite Coverage Info received by the UE**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

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

**S3-232047 33.700-28: Solution on Protection of PDU Session carrying Satellite Coverage Information**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

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

**S3-232176 33.700-28: Update to Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

(Replaces S3-232043)

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

**S3-232177 33.700-28: Solution on AF Authorization for Providing Satellite Coverage Information**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

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

**S3-232178 33.700-28: Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

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

**S3-232196 Draft TR 33.700-28 v0.4.0**

*Type: draft TR For: Approval  
 33.700-28 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-232198 33.700-28: Solution on AF Authorization for Providing Satellite Coverage Information**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology, Nokia, Nokia Shanghai Bell*

(Replaces S3-232044)

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

**S3-232199 33.700-28: Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology, Nokia, Nokia Shanghai Bell*

(Replaces S3-232045)

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

## 6 New Study/Work item proposals

## 7 CVD and research

## 8 Any Other Business

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-231700 | Agenda | SA WG3 Chair | approved |  |  |
| S3-231701 | Process for SA3#110AdHoc-e | SA WG3 Chair | noted |  |  |
| S3-231702 | Process and agenda planning for SA3#110AdHoc-e | SA WG3 Chair | noted |  |  |
| S3-231703 | LS on user consent for UE location sharing | S6-230351 | postponed |  |  |
| S3-231704 | LS on UE event reporting over a user plane connection to LCS client or AF | S2-2301789 | replied to |  |  |
| S3-231705 | LS on LPP message and supplementary service event report over a user plane connection between UE and LMF | S2-2301857 | replied to |  |  |
| S3-231706 | LS Reply to 3GPP on SEPP Certificates | GSMA | noted |  |  |
| S3-231707 | LS on UE specific data and analytics exchange between HPLMN and VPLMN | S2-2303548 | noted |  |  |
| S3-231708 | Reply LS on Support PIN application architecture and interaction | S2-2303698 | noted |  |  |
| S3-231709 | Reply LS on SNAAPP requirements clarifications | S1-230591 | noted |  |  |
| S3-231710 | Reply LS on the data and analytics exchange between two NWDAFs in different PLMNs | S2-2303563 | noted |  |  |
| S3-231711 | Reply LS on Progress and open issues for NPN enhancements in Rel-18 | S2-2303689 | noted |  |  |
| S3-231712 | Reply LS on clarification on user consent for AI/ML | S2-2303834 | noted |  |  |
| S3-231713 | LS reply to Reply LS on Network federation interface for Telco edge consideration | S5-233146 | noted |  |  |
| S3-231714 | LS on Alignment of SA3 security aspects for Personal IoT Networks | S6-230792 | replied to |  |  |
| S3-231715 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-231061 | postponed |  |  |
| S3-231716 | LS to SA2 on Sidelink positioning procedure | R2-2302285 | noted |  |  |
| S3-231717 | LS to 3GPP on GSMA requirements regarding intermediaries in the roaming ecosystem (Roaming Hub, IPX and RVAS Providers) | GSMA | postponed |  |  |
| S3-231718 | LS response to 3GPP on IPX Requirements for 5GS Roaming | GSMA | noted |  |  |
| S3-231719 | LS Roaming Value Added Service Requirements | GSMA | noted |  |  |
| S3-231720 | LS with Roaming Hubbing requirements and LS response to 3GPP SA3 LS(S3-214456) on 5GS Roaming Hubbing | GSMA | noted |  |  |
| S3-231721 | LS on GSMA 5GMRR Working Solution Assumption L-PRINS and Data Session Control | GSMA | postponed |  |  |
| S3-231722 | Alignment of 3GPP’s 5G Security to the fifth NIST Tenet of ZTA | Ericsson | merged |  | S3-232102 |
| S3-231723 | Alignment of 3GPP’s 5G Security to the sixth NIST Tenet of ZTA | Ericsson | noted |  |  |
| S3-231724 | DP on the need and means of alignment between PIN work in SA3 and SA6 | InterDigital, Inc. | noted |  |  |
| S3-231725 | Draft Reply LS on Alignment of SA3 security aspects for Personal IoT Networks | InterDigital, Inc. | revised |  | S3-232118 |
| S3-231726 | PCR TR 33.882 New KI#Y | InterDigital, Inc. | noted |  |  |
| S3-231727 | PCR TR 33.882 New KI#X | InterDigital, Inc. | noted |  |  |
| S3-231728 | PCR TR 33.882 KI#1 Modification | InterDigital, Inc. | noted |  |  |
| S3-231729 | Resolution of EN related to encryption in KI#3 conclusion in eNA\_SEC\_Ph3 | Nokia, Nokia Shanghai Bell, Lenovo, Intel | revised |  | S3-232151 |
| S3-231730 | pCR\_Resolution of ENs of KI#1 conclusion in eNA\_SEC\_Ph3 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231731 | pCR Conclusion of eNA\_SEC\_Ph3 KI#4 | Nokia, Nokia Shanghai Bell, Lenovo | noted |  |  |
| S3-231732 | pCR Resolution of EN of KI#2 conclusion in eNA\_SEC\_Ph3 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231733 | Discussion paper on eNA\_SEC\_Ph3 KI#1 conclusions | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231734 | LS Out on Authorization of NF service consumer for AIML model storage and sharing in eNA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231735 | pCR Resolving EN in conclusion of ACM\_SBA KI#5 | Nokia, Nokia Shanghai Bell | revised |  | S3-232129 |
| S3-231736 | pCR Conclusion of ACM\_SBA KI#9 | Nokia, Nokia Shanghai Bell | revised |  | S3-232132 |
| S3-231737 | pCR Conclusion of ACM\_SBA KI#8 | Nokia, Nokia Shanghai Bell | revised |  | S3-232131 |
| S3-231738 | pCR Conclusion of ACM\_SBA KI#6 | Nokia, Nokia Shanghai Bell | revised |  | S3-232130 |
| S3-231739 | Skeleton\_ACM\_SBA\_informative annex | Nokia, Nokia Shanghai Bell | merged |  | S3-232147 |
| S3-231740 | Skeleton\_ACM\_SBA\_normative | Nokia, Nokia Shanghai Bell | revised |  | S3-232147 |
| S3-231741 | LS out on user consent in roaming scenarios | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231742 | Discussion on NTN AF Authorization (Rel18) | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231743 | Solution for AF Authorization | Nokia, Nokia Shanghai Bell | merged |  | S3-232198 |
| S3-231744 | Conclusion for KI #1 | Nokia, Nokia Shanghai Bell | merged |  | S3-232199 |
| S3-231745 | Skeleton for 5WWC\_Ph2\_Sec:DraftCR to 33501 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231746 | Resolve first EN to conclusion to KI#3 "Security for AI/ML model storage and sharing" | Ericsson | noted |  |  |
| S3-231747 | Resolve second EN to conclusion to KI#3 "Security for AI/ML model storage and sharing" | Ericsson | merged |  | S3-232151 |
| S3-231748 | Skeleton for Security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson | approved |  |  |
| S3-231749 | Updated conclusion of KI#2 Authentication for UE access to hosting network | Ericsson | noted |  |  |
| S3-231750 | Conclusion for KI#2 | Ericsson | noted |  |  |
| S3-231751 | Conclusion for KI#2 | Ericsson | noted |  |  |
| S3-231752 | Conclusion for KI#3 | Ericsson | noted |  |  |
| S3-231753 | Discussion for removal of Editor's note in conclusion for trusted N3GPP access | Ericsson | noted |  |  |
| S3-231754 | Updated conclusion for KI#1 regarding trusted access | Ericsson | noted |  |  |
| S3-231755 | Updated conclusion for KI#1 regarding untrusted access | Ericsson | merged |  | S3-232223 |
| S3-231756 | Updated conclusion for KI#1 regarding N5CW access | Ericsson | noted |  |  |
| S3-231757 | Removing Editor’s notes in Solution #14 | Ericsson | approved |  |  |
| S3-231758 | Reply LS on LPP message and supplementary service event report over a user plane connection between UE and LMF and LS on UE event reporting over a user plane connection to LCS client or AF | Ericsson | revised |  | S3-232232 |
| S3-231759 | Skeleton draft TS 33.528 | BSI (DE) | approved |  | - |
| S3-231760 | Discussion on handling of LI for AKMA ph2 services | NDRE | withdrawn |  |  |
| S3-231761 | Discussion on handling of LI for AKMA ph2 services | NDRE, Nokia, Nokia Shanghai Bell, Lenovo | noted |  |  |
| S3-231762 | Conclusion for key issue #1 | Ericsson, BT | noted |  |  |
| S3-231763 | Resolve EN for conclusion for key issue #2 | Ericsson | merged |  | S3-232098 |
| S3-231764 | LS on third party specific user identities in IMS | Ericsson | noted |  |  |
| S3-231765 | pCR to living document to TS 33.501: Clarifications and removals of Editor's Notes | Ericsson | revised |  | S3-232211 |
| S3-231766 | Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol | Ericsson | revised |  | S3-232213 |
| S3-231767 | pCR to GBA OSCORE living doc: Clarifications | Ericsson | revised |  | S3-232212 |
| S3-231768 | Proposal for a living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.535, IETF OSCORE as AKMA Ua\* protocol | Ericsson | noted |  |  |
| S3-231769 | KI#2 conclusion update | Ericsson LM | noted |  |  |
| S3-231770 | Conclusion for KI#1 | Lenovo, AT&T, Broadcom, CableLabs, CATT, China Mobile, Intel, LGE, NEC, Nokia Shanghai Bell, Nokia | noted |  |  |
| S3-231771 | Protection of broadcast communication | Lenovo | revised |  | S3-232233 |
| S3-231772 | Living document to TS 33.503 for Prose Secondary Authentication | InterDigital, Europe, Ltd. | revised |  | S3-232114 |
| S3-231773 | Clearing EN on Remote UE Report | InterDigital, Europe, Ltd. | revised |  | S3-232104 |
| S3-231774 | Clearing EN on Remote UE Subscription update | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231775 | Clearing EN on Remote UE GPSI | InterDigital, Europe, Ltd. | approved |  |  |
| S3-231776 | Clearing EN on Revocation procedure | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231777 | Naming alignment from 5GPRUK to CP-PRUK | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231778 | draft LS on Prose Secondary Authentication | InterDigital, Europe, Ltd. | revised |  | S3-232108 |
| S3-231779 | Update to Conclusion to KI #1 | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231780 | Update to TR 33.740 Conclusion for KI#2 | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231781 | Update to TR 33.740 Conclusion for KI#4 | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231782 | Evaluation TR 33.740 Sol #12 | InterDigital, Europe, Ltd. | noted |  |  |
| S3-231783 | New Solution using Re-keying for L2 U2U Relay selection | InterDigital, Europe, Ltd. | revised |  | S3-232111 |
| S3-231784 | New solution KNRP ID privacy L2 U2U Relay reselection | InterDigital, Europe, Ltd. | revised |  | S3-232112 |
| S3-231785 | New solution Model A Relay discovery using multiple key sets | InterDigital, Europe, Ltd. | revised |  | S3-232113 |
| S3-231786 | Authorization of AF for Policy Management | InterDigital Communications | noted |  |  |
| S3-231787 | Updates for Solution #26 | InterDigital Communications | noted |  |  |
| S3-231788 | A new solution for KI#2.3 | InterDigital Communications | noted |  |  |
| S3-231789 | Draft Skeleton for UAS | Qualcomm Incorporated | revised |  | S3-232100 |
| S3-231790 | Update of the conclusion on data channel security | Qualcomm Incorporated | revised |  | S3-232098 |
| S3-231791 | Proposed updates to the DTLS text | Qualcomm Incorporated | merged |  | S3-232135 |
| S3-231792 | Adding some evaluation to solution #1 | Qualcomm Incorporated | noted |  |  |
| S3-231793 | Adding some evaluation to solution #2 | Qualcomm Incorporated | merged |  | S3-232226 |
| S3-231794 | A new solution for mitigating privacy attacks exploiting group paging with TMGI | Qualcomm Incorporated | noted |  |  |
| S3-231795 | Conclusion for Key Issue #2 | Qualcomm Incorporated | noted |  |  |
| S3-231796 | An update on the evaluations of solution #1 | Qualcomm Incorporated | noted |  |  |
| S3-231797 | Conclusion for Key Issue #1 | Qualcomm Incorporated | noted |  |  |
| S3-231798 | Discussion on ProSe UE-to-UE Relay discovery security | Qualcomm Incorporated, Deutsche Telekom, Philips International B.V. | noted |  |  |
| S3-231799 | Conclusion of KI#1 | Qualcomm Incorporated, Deutsche Telekom, Philips International B.V. | revised |  | S3-232202 |
| S3-231800 | Updates on the solution #23 | Qualcomm Incorporated | revised |  | S3-232203 |
| S3-231801 | Updates on the solution #24 | Qualcomm Incorporated | revised |  | S3-232204 |
| S3-231802 | Update the evaluation of solution #8 | Qualcomm Incorporated | noted |  |  |
| S3-231803 | Update the evaluation of solution #9 | Qualcomm Incorporated | noted |  |  |
| S3-231804 | Add an evaluation of solution #11 | Qualcomm Incorporated | noted |  |  |
| S3-231805 | Conclusion of KI#5 | Qualcomm Incorporated | noted |  |  |
| S3-231806 | Update of a conclusion for KI #3 | Qualcomm Incorporated | noted |  |  |
| S3-231807 | Updates on the solution #15 | Qualcomm Incorporated | revised |  | S3-232201 |
| S3-231808 | Updates on the solution #12 | Qualcomm Incorporated | noted |  |  |
| S3-231809 | Update on solution #9 | Qualcomm Incorporated | noted |  |  |
| S3-231810 | conclusion for KI#5 | Qualcomm Incorporated | noted |  |  |
| S3-231811 | Conclusion for KI#1 | Qualcomm Incorporated | noted |  |  |
| S3-231812 | solution 7 correction | Nokia, Nokia Shanghai Bell, | noted |  |  |
| S3-231813 | solution 7 enhancement | Nokia, Nokia Shanghai Bell, | noted |  |  |
| S3-231814 | KI1 conclusion for case 1 and case3 | Nokia, Nokia Shanghai Bell, Xiaomi, Lenovo | noted |  |  |
| S3-231815 | EN removal on UE reachability scenario | Nokia, Nokia Shanghai Bell | merged |  | S3-232211 |
| S3-231816 | EN removal multiple AMF scenarios Veriant1 | Nokia, Nokia Shanghai Bell | revised |  | S3-232123 |
| S3-231817 | EN removal multiple AMF scenarios Veriant2 | Nokia, Nokia Shanghai Bell | merged |  | S3-232123 |
| S3-231818 | addition of SoR use case | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231819 | addition of UPU use case | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231820 | ProSe - Conclusion on KI#2 | Philips International B.V. | noted |  |  |
| S3-231821 | ProSe - Conclusion on KI#3 | Philips International B.V. | noted |  |  |
| S3-231822 | ProSe - ProSe - New solution KI#1, 2 | Philips International B.V. | revised |  | S3-232125 |
| S3-231823 | Ranging - New solution KI#5 | Philips International B.V. | revised |  | S3-232124 |
| S3-231824 | Ranging - Update KI#1 | Philips International B.V. | approved |  |  |
| S3-231825 | Conclusion for KI#1 | THALES | noted |  |  |
| S3-231826 | Changes to living document for GBA OSCORE | THALES | approved |  |  |
| S3-231827 | Changes to living document for GBA DTLS | THALES | revised |  | S3-232135 |
| S3-231828 | Resolution of editor’s note in solution 1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231829 | Resolution of EN – conclusion to KI#1 – Untrusted access | Nokia, Nokia Shanghai Bell | revised |  | S3-232223 |
| S3-231830 | Resolution of EN – conclusion to KI#1 – Trusted access | Nokia, Nokia Shanghai Bell, Lenovo, Intel | noted |  |  |
| S3-231831 | Conclusions to KI#1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231832 | Conclusions to KI#2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231833 | Editorial changes in solution 3 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-231834 | Resolution of editor’s note in solution 10 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-231835 | New Key Issue: Support for Policy Decision Points within 5GC SBA | MITRE Corporation, Nokia, Nokia Shanghai Bell, Lenovo | noted |  |  |
| S3-231836 | Editorial update to conclusion on KI#5 | China Telecommunications | merged |  | S3-232186 |
| S3-231837 | Editorial update to KI#3 | China Telecommunications | approved |  |  |
| S3-231838 | Updating conclusion on KI#1 | China Telecommunications | revised |  | S3-232117 |
| S3-231839 | Updating conclusion on KI#2 | China Telecommunications | noted |  |  |
| S3-231840 | Updating evaluation for solution#3 | China Telecommunications, Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-231841 | Living document for AKMA DTLS to TS 33.535 | ZTE Corporation | noted |  |  |
| S3-231842 | Living document for GBA DTLS to TS 33.220 | ZTE Corporation | revised |  | S3-232128 |
| S3-231843 | Discussion on home network triggered primary authentication procedure | ZTE Corporation | merged |  | S3-232211 |
| S3-231844 | Conclusion for the KI#2 | ZTE Corporation | merged |  | S3-232167 |
| S3-231845 | Conclusion for the KI#3 | ZTE Corporation | noted |  |  |
| S3-231846 | Update home network triggered primary authentication procedure | ZTE Corporation | merged |  | S3-232211 |
| S3-231847 | Update the conclusion for the KI#6 | ZTE Corporation | approved |  |  |
| S3-231848 | Draft CR to TS 33.535-Kakma refresh | ZTE Corporation | noted |  |  |
| S3-231849 | Add conclusion for KI#1 | ZTE Corporation | noted |  |  |
| S3-231850 | Add conclusion for KI#2 | ZTE Corporation | noted |  |  |
| S3-231851 | Conclusion for KI#1 | ZTE Corporation | noted |  |  |
| S3-231852 | Update the key issue 5 | ZTE Corporation | noted |  |  |
| S3-231853 | New solution for KI#5 | ZTE Corporation | noted |  |  |
| S3-231854 | A new solution for the key issue 5 (broadcast) | ZTE Corporation | noted |  |  |
| S3-231855 | Conclusion for KI #1 in TR 33.740 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231856 | Add conclusion for KI#5 | ZTE Corporation | noted |  |  |
| S3-231857 | A new solution for the key issue 5 (groupcast) | ZTE Corporation | noted |  |  |
| S3-231858 | Add conclusion for KI#3 | ZTE Corporation | noted |  |  |
| S3-231859 | Update solution#6 | ZTE Corporation | approved |  |  |
| S3-231860 | pCR to update TR33.740 Solution 11 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231861 | Conclusion for the key issue 5 | ZTE Corporation | noted |  |  |
| S3-231862 | Update KI#2 | ZTE Corporation | noted |  |  |
| S3-231863 | New solution for KI#2 | ZTE Corporation | noted |  |  |
| S3-231864 | Evaluation of TR33.740 Solution 11 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231865 | Add conclusion for KI#2 | ZTE Corporation | noted |  |  |
| S3-231866 | Update to the evaluation of TR33.740 Solution 23 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231867 | Update to the evaluation of TR33.740 Solution 24 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231868 | Update to conclusion of KI#2 in TR 33.740 | China Telecom Corporation Ltd. | merged |  | S3-232167 |
| S3-231869 | Update to conclusion of KI#3 in TR 33.740 | China Telecom Corporation Ltd. | approved |  |  |
| S3-231870 | Update to conclusion of KI#4 in TR 33.740 | China Telecom Corporation Ltd. | approved |  |  |
| S3-231871 | Update to conclusion of KI#6 in TR 33.740 | China Telecom Corporation Ltd. | approved |  |  |
| S3-231872 | Conclusion for KI#2: Authorization of PIN capabilities. | Intel | noted |  |  |
| S3-231873 | New Key issue for Monitoring and detecting attacks on ranging devices and services | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-231874 | Adding evaluation to Solution#3 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231875 | Adding evaluation to Solution#8 | China Telecom Corporation Ltd. | noted |  |  |
| S3-231876 | New key issue on EEC provided IP address verification | Ericsson | revised |  | S3-232209 |
| S3-231877 | A solution for EEC provided IP address verification | Ericsson | revised |  | S3-232210 |
| S3-231878 | Update the key issue on EAS discovery security | Ericsson | revised |  | S3-232206 |
| S3-231879 | Update solution #23 EAS discovery procedure protection | Ericsson | revised |  | S3-232207 |
| S3-231880 | Update conclusion on EAS discovery security | Ericsson | noted |  |  |
| S3-231881 | Resolving EN in solution #25 | Ericsson | revised |  | S3-232208 |
| S3-231882 | Resolving ENs in solution #27 | Ericsson | approved |  |  |
| S3-231883 | Conclusion for EEC provided IP address verification | Ericsson | noted |  |  |
| S3-231884 | Resolving ENs in solution #6 | Ericsson | revised |  | S3-232205 |
| S3-231885 | Update conclusion on authorization between EESes | Ericsson | noted |  |  |
| S3-231886 | Authorization of selection of participant NWDAF instances in the Federated Learning group. | Intel | withdrawn |  |  |
| S3-231887 | Update the PDU Session secondary authentication of Remote UE | China Telecom Corporation Ltd. | merged |  | S3-232104 |
| S3-231888 | KI#1 update | Huawei, HiSilicon | noted |  |  |
| S3-231889 | new solution to KI#2 | Huawei, HiSilicon | noted |  |  |
| S3-231890 | conclusions to KI#2 | Huawei, HiSilicon | noted |  |  |
| S3-231891 | update to solution#1 | Huawei, HiSilicon | noted |  |  |
| S3-231892 | conclusions to KI#3 | Huawei, HiSilicon | noted |  |  |
| S3-231893 | new solution to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-231894 | conclusions to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-231895 | update to solution 15 | Huawei, HiSilicon | revised |  | S3-232157 |
| S3-231896 | update to solution 1 | Huawei, HiSilicon | revised |  | S3-232158 |
| S3-231897 | conclusion on key issue 1 | Huawei, HiSilicon | noted |  |  |
| S3-231898 | A new solution to address the privacy issue with TMGI | Huawei, HiSilicon | noted |  |  |
| S3-231899 | conclusion on key issue 2 | Huawei, HiSilicon | noted |  |  |
| S3-231900 | Update to the solution 3 | Huawei, HiSilicon | revised |  | S3-232116 |
| S3-231901 | conclusion on key issue 1 | Huawei, HiSilicon | noted |  |  |
| S3-231902 | Reply LS on user plane connection between UE and LCS client, AF or LMF | Huawei, HiSilicon | merged |  | S3-232232 |
| S3-231903 | Add conclusion for key issue #2 | Huawei, HiSilicon | noted |  |  |
| S3-231904 | Add evaluation for solution # 1 | Huawei, HiSilicon | approved |  |  |
| S3-231905 | Add conclusion for key issue #1 | Huawei, HiSilicon | revised |  | S3-232159 |
| S3-231906 | Add evaluation to solution #18 | Huawei, HiSilicon | revised |  | S3-232101 |
| S3-231907 | Add conclusion for key issue #9 | Huawei, HiSilicon | merged |  | S3-232132 |
| S3-231908 | New Solution on Revocation using Short-lived Token | Huawei, HiSilicon | revised |  | S3-232160 |
| S3-231909 | Conclusion on Revocation for key issue#2 | Huawei, HiSilicon | revised |  | S3-232161 |
| S3-231910 | Update on solution #1 | Huawei, HiSilicon | revised |  | S3-232162 |
| S3-231911 | New Solution on Resource Owner Authorization using Authorization Code Grant | Huawei, HiSilicon | noted |  |  |
| S3-231912 | Address EN on solutiion #1 username mapping | Huawei, HiSilicon | approved |  |  |
| S3-231913 | Address EN on solutiion #1 message of scope | Huawei, HiSilicon | revised |  | S3-232163 |
| S3-231914 | Conclusion on Authorization for key issue#2 | Huawei, HiSilicon | noted |  |  |
| S3-231915 | Add Evaluation for Solution for Authorization for eNA Roaming | Huawei, HiSilicon | revised |  | S3-232164 |
| S3-231916 | Conclusion Update for key issue #1 | Huawei, HiSilicon | noted |  |  |
| S3-231917 | New Solution on Implicit Authentication for Serving Network for NSWO support in SNPN | Huawei, HiSilicon | noted |  |  |
| S3-231918 | Conclusion for Implicit Authentication for Serving Network related to NSWO | Huawei, HiSilicon | noted |  |  |
| S3-231919 | Reply LS on user consent for UE location sharing | Huawei, HiSilicon | noted |  |  |
| S3-231920 | Address EN and update evaluation to Sol#13 | Huawei, HiSilicon | revised |  | S3-232165 |
| S3-231921 | update to the conclusion of KI#3 in TR 33.893 | Huawei, HiSilicon | noted |  |  |
| S3-231922 | conclusion for the KI#4 in TR 33.893 | Huawei, HiSilicon | revised |  | S3-232166 |
| S3-231923 | Conclude the KI#1 in TR 33.740 | Huawei, HiSilicon | noted |  |  |
| S3-231924 | Update to the KI#2 conclusion in TR 33.740 | Huawei, HiSilicon | revised |  | S3-232167 |
| S3-231925 | Conclusion to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-231926 | living document for HNA | Huawei, HiSilicon | revised |  | S3-232168 |
| S3-231927 | New UDM service | Huawei, HiSilicon | merged |  | S3-232110 |
| S3-231928 | New AMF service | Huawei, HiSilicon | merged |  | S3-232110 |
| S3-231929 | Addressing Editor’s Note on multiple AMFs registered to the UDM | Huawei, HiSilicon | merged |  | S3-232123 |
| S3-231930 | Updating the NOTE1 | Huawei, HiSilicon | revised |  | S3-232169 |
| S3-231931 | update the procedure to align with the R-17 agreement | Huawei, HiSilicon | merged |  | S3-232104 |
| S3-231932 | Delete Editor's Note to sol#18 | Huawei, HiSilicon | revised |  | S3-232170 |
| S3-231933 | Update conclusion 7.1.3 | Huawei, HiSilicon | noted |  |  |
| S3-231934 | add conclusion to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-231935 | Addressing Editor's Note on remote UE's subscription update notification | Huawei, HiSilicon | noted |  |  |
| S3-231936 | pCR on introducing another PC5-S message to the Remote UE | Huawei, HiSilicon | noted |  |  |
| S3-231937 | Resolution of ENs and evaluation of Sol#7 KI#6 | Huawei, HiSilicon | revised |  | S3-232099 |
| S3-231938 | Analysis and conclusion for key issue #8 | Huawei, HiSilicon | merged |  | S3-232131 |
| S3-231939 | Conclusion for key issue #6 | Huawei, HiSilicon | merged |  | S3-232130 |
| S3-231940 | Evaluation of tenet 4 on resource access | Huawei, HiSilicon | noted |  |  |
| S3-231941 | Additions to the evaluation of tenet 5 on security posture | Huawei, HiSilicon | revised |  | S3-232102 |
| S3-231942 | Updates to the evaluation of tenet 6 on access security | Huawei, HiSilicon | revised |  | S3-232103 |
| S3-231943 | Resolving the EN about the security of the communication between V-EASDF and H-EASDF/DNS | Huawei, HiSilicon | noted |  |  |
| S3-231944 | Resolving the EN about non-roaming case on the configuration of EASDF | Huawei, HiSilicon | approved |  |  |
| S3-231945 | update to conclusion for KI#1.2 | Huawei, HiSilicon | revised |  | S3-232174 |
| S3-231946 | Sol#1 Adding evaluation - being not in line with OAuth 2.0 architecture | Nokia, Nokia Shanghai Bell | revised |  | S3-232119 |
| S3-231947 | Sol#3 Resolving ENs on scopes and claims | Nokia, Nokia Shanghai Bell | revised |  | S3-232120 |
| S3-231948 | Sol#3 Evaluation related to additional scope and its restriction | Nokia, Nokia Shanghai Bell | revised |  | S3-232121 |
| S3-231949 | Sol#3 Evaluation on exposure of UE identity | Nokia, Nokia Shanghai Bell | revised |  | S3-232122 |
| S3-231950 | Security for U2U relay in 3GPP coverage | Ericsson | revised |  | S3-231982 |
| S3-231951 | Emergency service via Layer 2 and Layer 3 UE-to-network relay | Ericsson | revised |  | S3-232010 |
| S3-231952 | [Draft] LS on ProSe Secondary Authentication | Ericsson | merged |  | S3-232108 |
| S3-231953 | Discussion of secondary authentication & authorization for Layer-3 UE-to-Network relaying | Ericsson | noted |  |  |
| S3-231954 | New solution with Network assisted SL positioning discovery security material provisioning | Ericsson | noted |  |  |
| S3-231955 | New solution with Network assisted SL positioning provisioning long term key | Ericsson | noted |  |  |
| S3-231956 | Update to conclusions on KI#2 | Ericsson | merged |  | S3-232167 |
| S3-231957 | skeleton draft CR 33.122 on SNAAPPY | NTT DOCOMO INC. | revised |  | S3-232152 |
| S3-231958 | Adding evalution for Sol#26 | Huawei, HiSilicon | revised |  | S3-232214 |
| S3-231959 | Adding evalution for sol#27 | Huawei, HiSilicon | revised |  | S3-232215 |
| S3-231960 | Resolving EN of Conclusion of KI#2.6 | Huawei, HiSilicon | noted |  |  |
| S3-231961 | living CR of EDGE\_Ph2 on TS 33.501 | Huawei, HiSilicon | revised |  | S3-232216 |
| S3-231962 | Resolving EN of Conclusion of KI#2.1 | Huawei, HiSilicon | noted |  |  |
| S3-231963 | Living CR of EDGE\_Ph2 on TS 33.558 | Huawei, HiSilicon | revised |  | S3-232217 |
| S3-231964 | Reply LS on IPX Requirements for 5GS Roaming from GSMA | Huawei, HiSilicon | noted |  |  |
| S3-231965 | Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | Huawei, HiSilicon | withdrawn |  |  |
| S3-231966 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | Huawei, HiSilicon | noted |  |  |
| S3-231967 | conclusion on key issue 1 | Huawei, HiSilicon | noted |  |  |
| S3-231968 | Resolving EN in Conclusions for KI #2 | Huawei, HiSilicon | merged |  | S3-232098 |
| S3-231969 | Skeleton for NG\_RTC\_SEC | Huawei, HiSilicon | revised |  | S3-232219 |
| S3-231970 | EN addition to solution #2 | LG Electronics | merged |  | S3-232226 |
| S3-231971 | Minor editorial correction to solution #1 | LG Electronics | approved |  |  |
| S3-231972 | EN removal for multiple AMFs case | LG Electronics | noted |  |  |
| S3-231973 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | Apple | noted |  |  |
| S3-231974 | Reply LS on user consent for UE location sharing | Apple | noted |  |  |
| S3-231975 | MEC-Resolving the EN of the conclusion of KI#2.2 | Apple | noted |  |  |
| S3-231976 | MEC-New key issue on verification of UE provided information | Apple | merged |  | S3-232209 |
| S3-231977 | USIA- Adding the evaluation for solution#1 | Apple | noted |  |  |
| S3-231978 | Update conclusion for key issue #5 | China Mobile | revised |  | S3-232186 |
| S3-231979 | Conclusion for key issue #1 | China Mobile | noted |  |  |
| S3-231980 | Skeleton for Security aspects of enablers for Network Automation for 5G - phase 3 | China Mobile | revised |  | S3-232189 |
| S3-231981 | Skeleton for AKMA ph2 WID | China Mobile | revised |  | S3-232126 |
| S3-231982 | Security for U2U relay in 3GPP coverage | Ericsson, China Telecom | noted | S3-231950 |  |
| S3-231983 | Add evaluation on sol#3 | OPPO | approved |  |  |
| S3-231984 | Further evaluation on sol#4 | OPPO | noted |  |  |
| S3-231985 | Add evaluation on sol#5 | OPPO | noted |  |  |
| S3-231986 | Update Sol #6 for AIML Security | OPPO | noted |  |  |
| S3-231987 | [draftCR] Adding a new security sevice operation provided by the UDM and AMF | Samsung | merged |  | S3-232110 |
| S3-231988 | [draftCR] Adding details on the operator policy and the trigger for the primary authentication | Samsung | merged |  | S3-232211 |
| S3-231989 | [draftCR] Modifying the Editor’s Note on UE reachability | Samsung | merged |  | S3-232211 |
| S3-231990 | Discussion paper on performing only server side authentication | Samsung | noted |  |  |
| S3-231991 | [draft] LS on mutual authentication requirement in EDGE | Samsung | noted |  |  |
| S3-231992 | Updates to conclusion#2.1 | Samsung | noted |  |  |
| S3-231993 | Updates to conclusion#2.2 | Samsung, Huawei, HiSilicon, Intel, ZTE, Thales, CableLabs | noted |  |  |
| S3-231994 | [draftCR] Living document for SEAL security for network domain interfaces | Samsung | approved |  |  |
| S3-231995 | [MBS] Updates to solution#1 | Samsung | noted |  |  |
| S3-231996 | [MBS] Evaluation for solution#3 | Samsung | noted |  |  |
| S3-231997 | [MBS] Conclusion for Key Issue#1 | Samsung | noted |  |  |
| S3-231998 | EN Resolution of Sol #33 | Samsung, KT | revised |  | S3-232221 |
| S3-231999 | Conclusion on KI #5 | Samsung, KT | noted |  |  |
| S3-232000 | Resolving EN on Sol#11 | Samsung | merged |  | S3-232222 |
| S3-232001 | Updates to Sol#11 | Samsung | revised |  | S3-232222 |
| S3-232002 | Updates to Sol#12 | Samsung | revised |  | S3-232224 |
| S3-232003 | Conclusion | Samsung | noted |  |  |
| S3-232004 | New solution on security of Ranging or SL positioning groupcast communication | OPPO | revised |  | S3-232127 |
| S3-232005 | New solution on security of Ranging or SL positioning broadcast communication | OPPO | withdrawn |  |  |
| S3-232006 | New solution on Protecting Ranging/SL Positioning discovery out of network coverage | BUPT, OPPO | revised |  | S3-232138 |
| S3-232007 | Draft skeleton for ProSe Ph2 normative work | CATT | revised |  | S3-232142 |
| S3-232008 | pCR to TR33.740 Update Solution16 for removing EN | CATT | revised |  | S3-232140 |
| S3-232009 | pCR to TR33.740 Update Solution28 for removing ENs | CATT | revised |  | S3-232141 |
| S3-232010 | Emergency service via Layer 2 and Layer 3 UE-to-network relay | Ericsson | noted | S3-231951 |  |
| S3-232011 | pCR to TR33.740 Conclusion of key issue #1 | CATT | merged |  | S3-232202 |
| S3-232012 | pCR to TR33.893 New solution for provisioning broadcast protection keys in coverage | CATT | revised |  | S3-232148 |
| S3-232013 | pCR to TR33.893 New solution for provisioning groupcast/broadcast protection keys out of coverage | CATT | revised |  | S3-232149 |
| S3-232014 | Update to Tenet #5 | Lenovo, US National Security Agency, Charter Communications, Rakuten Mobile, Center for Internet Security, Cablelabs, Intel | merged |  | S3-232102 |
| S3-232015 | pCR to TR33.893 New solution for protecting groupcast/broadcast messages | CATT | revised |  | S3-232150 |
| S3-232016 | Update to Tenet #6 | Lenovo, US National Security Agency, Charter Communications, Rakuten Mobile, Center for Internet Security, Cablelabs, Intel | noted |  |  |
| S3-232017 | Cleanup of Tenet #7 | Lenovo | noted |  |  |
| S3-232018 | Update to Key Issue #1 | Lenovo | approved |  |  |
| S3-232019 | Data collection for Security Monitoring | Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs | noted |  |  |
| S3-232020 | NF State related data collection for Security Monitoring | Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs | noted |  |  |
| S3-232021 | Update to Solution #9 in eNA | Lenovo | noted |  |  |
| S3-232022 | Update to Solution #20 in eNA | Lenovo | revised |  | S3-232105 |
| S3-232023 | Update to Solution #4 in Snaappy | Lenovo | revised |  | S3-232106 |
| S3-232024 | Update to Solution #5 in Snaappy | Lenovo | revised |  | S3-232107 |
| S3-232025 | Update to Solution #16 | Lenovo | revised |  | S3-232109 |
| S3-232026 | HONTRA Clarifications | Lenovo | revised |  | S3-232110 |
| S3-232027 | Skeleton for TS 33.533 | Xiaomi Technology | revised |  | S3-232194 |
| S3-232028 | Scope for TS 33.533 | Xiaomi Technology | approved |  |  |
| S3-232029 | 33.893: Additional Evaluation for Solution #1 | Xiaomi Technology | revised |  | S3-232179 |
| S3-232030 | 33.893: Update to Solution #2 | Xiaomi Technology | revised |  | S3-232183 |
| S3-232031 | 33.893: Resolve the Editor’s Note in Solution #8 | Xiaomi Technology | revised |  | S3-232180 |
| S3-232032 | 33.893: Resolve the Editor’s Note in Solution #14 | Xiaomi Technology | revised |  | S3-232188 |
| S3-232033 | 33.893: New Solution on Privacy Protection of Located UE during its Discovery and Selection | Xiaomi Technology | revised |  | S3-232181 |
| S3-232034 | 33.893: New Solution on Client UE Authorization for Service Exposure through the Network | Xiaomi Technology | revised |  | S3-232184 |
| S3-232035 | 33.893: New Solution on Client UE Authorization for Service Exposure through PC5 | Xiaomi Technology | approved |  |  |
| S3-232036 | 33.893: New Solution on Protection for Groupcast of SLPP Signalling | Xiaomi Technology | approved |  |  |
| S3-232037 | 33.893: New Solution on Protection for Broadcast of SLPP Signalling | Xiaomi Technology | approved |  |  |
| S3-232038 | 33.893: Conclusion on Key Issue #1 | Xiaomi Technology | revised |  | S3-232182 |
| S3-232039 | 33.893: Further Conclusions for KI#2 on Authorization for Service Exposure | Xiaomi Technology | revised |  | S3-232185 |
| S3-232040 | 33.893: Further Conclusions for KI#2 on Authorization of UE Role | Xiaomi Technology | revised |  | S3-232187 |
| S3-232041 | 33.893: Further Conclusions for KI#3 | Xiaomi Technology | noted |  |  |
| S3-232042 | 33.893: Conclusion on Key Issue #4 | Xiaomi Technology | revised |  | S3-232190 |
| S3-232043 | 33.700-28: Update to Key Issue #1 | Xiaomi Technology | revised |  | S3-232176 |
| S3-232044 | 33.700-28: Solution on AF Authorization for Providing Satellite Coverage Information | Xiaomi Technology | revised |  | S3-232198 |
| S3-232045 | 33.700-28: Conclusion on Key Issue #1 | Xiaomi Technology | revised |  | S3-232199 |
| S3-232046 | 33.700-28: New Key Issue on Protection of Satellite Coverage Info received by the UE | Xiaomi Technology | noted |  |  |
| S3-232047 | 33.700-28: Solution on Protection of PDU Session carrying Satellite Coverage Information | Xiaomi Technology | noted |  |  |
| S3-232048 | Conclusion on Key Issue #1 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232049 | Conclusion on Key Issue #2 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232050 | Conclusion on Key Issue #3 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232051 | Discussion on the provisioning of long term credentials in the UE-to-UE Relay Communication | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232052 | Provision the long term credentials during the discovery procedure | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232053 | Provision the long term credentials during the service authorization procedure | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232054 | Remove the Editor's Note and evaluate the solution #7 in TR 33.740 | Beijing Xiaomi Mobile Software | revised |  | S3-232191 |
| S3-232055 | Remove the Editor's Notes of solution #20 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232056 | Update to solution #30 in TR 33.740 | Beijing Xiaomi Mobile Software | revised |  | S3-232192 |
| S3-232057 | Update evaluation to solution #32 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232058 | Update to conclusion for KI#2 in TR 33.893 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232059 | Remove the Editor’s Note of solution #9 in TR 33.893 | Beijing Xiaomi Mobile Software | approved |  |  |
| S3-232060 | New solution on authorization of MO-LR procedure for Network assisted SL Positioning in TR 33.893 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232061 | Conclusion on Key Issue #4 in TR 33.876 | Beijing Xiaomi Mobile Software | revised |  | S3-232175 |
| S3-232062 | Remove the Editor’s Note related to the message type between AMF and UDM in the HONTRA | Beijing Xiaomi Mobile Software | revised |  | S3-232193 |
| S3-232063 | Remove the Editor’s Note related to the multiple registrations in the HONTRA | Beijing Xiaomi Mobile Software | merged |  | S3-232123 |
| S3-232064 | Enable DTLS in Ua star protocol | Xiaomi communications | noted |  |  |
| S3-232065 | Update KI#2.1 conclusion of TR 33.739 | Xiaomi communications | noted |  |  |
| S3-232066 | Update conclusion of NSWO support in SNPN | Xiaomi communications | noted |  |  |
| S3-232067 | Update solution #2 of TR 33.85 | Xiaomi communications | revised |  | S3-232143 |
| S3-232068 | Enable OSCORE in Ua star protocol | Xiaomi communications | noted |  |  |
| S3-232069 | Resolve EN for choosing GBA\_U GBA\_ME | Xiaomi communications | noted |  |  |
| S3-232070 | Add conclusion for KI #2 of TR 33.882 | Xiaomi communications | noted |  |  |
| S3-232071 | Add conclusion to KI #1 of TR 33.882 | Xiaomi communications | noted |  |  |
| S3-232072 | New Sol for KI #2 of TR 33.882 | Xiaomi communications | approved |  |  |
| S3-232073 | New Sol for KI #3 of TR 33.886 | Xiaomi communications | approved |  |  |
| S3-232074 | Add evaluation to Sol #9 of TR 33.884 | Xiaomi communications | approved |  |  |
| S3-232075 | Add evaluation to Sol #10 of TR 33.884 | Xiaomi communications | approved |  |  |
| S3-232076 | KI#1 and KI#2 New Sol on resource owner policies based authorization mechanism | Xiaomi communications | revised |  | S3-232144 |
| S3-232077 | KI#2 New Sol on User authorization revocation for API invocation procedure | Xiaomi communications | revised |  | S3-232145 |
| S3-232078 | Resolve EN for Sol #9 of TR 33.884 | Xiaomi communications | approved |  |  |
| S3-232079 | Update conclusion of TR 33.884 | Xiaomi communications | noted |  |  |
| S3-232080 | User Consent in AI/ML | OPPO | noted |  |  |
| S3-232081 | Further Conclusion on KI#1 | OPPO | noted |  |  |
| S3-232082 | Conclusion for KI#5 | OPPO | noted |  |  |
| S3-232083 | Further Conclusion on KI#2 | OPPO | noted |  |  |
| S3-232084 | update to KI#2 temporary network slice | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232085 | solution for KI#2 temporary network slice for NSSAA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232086 | evaluation for KI#2 temporary network slice for NSSAA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232087 | conclusion for KI#2 temporary network slice for NSSAA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232088 | evaluation for KI#3 network slice admission control | Nokia, Nokia Shanghai Bell | revised |  | S3-232226 |
| S3-232089 | conclusion for KI#3 network slice admission control | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232090 | LS reply on LPP message and supplementary service event report over a user plane connection between UE and LMF | Nokia, Nokia Shanghai Bell | merged |  | S3-232232 |
| S3-232091 | LS reply on UE event reporting over a user plane connection to LCS client or AF | Nokia, Nokia Shanghai Bell | merged |  | S3-232232 |
| S3-232092 | Solutions using credential holder for KI#1 | CableLabs | revised |  | S3-232136 |
| S3-232093 | Additional conclusions on credential holder for KI#1 | CableLabs | revised |  | S3-232137 |
| S3-232094 | New solution on KI#5 protection of broadcast communication | BUPT | revised |  | S3-232139 |
| S3-232095 | Addressing editor's notes for solution 6.2 | NTT DOCOMO INC. | approved |  |  |
| S3-232096 | Addressing editor's notes for solution 6.7 | NTT DOCOMO INC. | revised |  | S3-232153 |
| S3-232097 | New solution: authorization revocation for persistent changes | NTT DOCOMO INC. | revised |  | S3-232154 |
| S3-232098 | Update of the conclusion on data channel security | Qualcomm Incorporated, Huawei, HiSilicon, Ericsson | approved | S3-231790 |  |
| S3-232099 | Resolution of ENs and evaluation of Sol#7 KI#6 | Huawei, HiSilicon | approved | S3-231937 |  |
| S3-232100 | Draft Skeleton for UAS | Qualcomm Incorporated | approved | S3-231789 |  |
| S3-232101 | Add evaluation to solution #18 | Huawei, HiSilicon | approved | S3-231906 |  |
| S3-232102 | Additions to the evaluation of tenet 5 on security posture | Huawei, HiSilicon, Ericsson, Lenovo | approved | S3-231941 |  |
| S3-232103 | Updates to the evaluation of tenet 6 on access security | Huawei, HiSilicon,Lenovo | approved | S3-231942 |  |
| S3-232104 | Clearing EN on Remote UE Report | InterDigital, Europe, Ltd., China Telecom, Huawei, HiSilicon | approved | S3-231773 |  |
| S3-232105 | Update to Solution #20 in eNA | Lenovo | approved | S3-232022 |  |
| S3-232106 | Update to Solution #4 in Snaappy | Lenovo | approved | S3-232023 |  |
| S3-232107 | Update to Solution #5 in Snaappy | Lenovo, Samsung | approved | S3-232024 |  |
| S3-232108 | LS on Prose Secondary Authentication | InterDigital, Europe, Ltd., Ericsson | approved | S3-231778 |  |
| S3-232109 | Update to Solution #16 | Lenovo | approved | S3-232025 |  |
| S3-232110 | HONTRA Clarifications | Lenovo | approved | S3-232026 |  |
| S3-232111 | New Solution using Re-keying for L2 U2U Relay selection | InterDigital, Europe, Ltd. | approved | S3-231783 |  |
| S3-232112 | New solution KNRP ID privacy L2 U2U Relay reselection | InterDigital, Europe, Ltd. | approved | S3-231784 |  |
| S3-232113 | New solution Model A Relay discovery using multiple key sets | InterDigital, Europe, Ltd. | approved | S3-231785 |  |
| S3-232114 | Living document to TS 33.503 for Prose Secondary Authentication | InterDigital, Europe, Ltd. | approved | S3-231772 |  |
| S3-232115 | TR 33.883 for 5MBS security | Huawei, HiSilicon | approved |  |  |
| S3-232116 | Update to the solution 3 | Huawei, HiSilicon | approved | S3-231900 |  |
| S3-232117 | Updating conclusion on KI#1 | China Telecommunications | approved | S3-231838 |  |
| S3-232118 | Reply LS on Alignment of SA3 security aspects for Personal IoT Networks | InterDigital, Inc. | approved | S3-231725 |  |
| S3-232119 | Sol#1 Adding evaluation - being not in line with OAuth 2.0 architecture | Nokia, Nokia Shanghai Bell | approved | S3-231946 |  |
| S3-232120 | Sol#3 Resolving ENs on scopes and claims | Nokia, Nokia Shanghai Bell | approved | S3-231947 |  |
| S3-232121 | Sol#3 Evaluation related to additional scope and its restriction | Nokia, Nokia Shanghai Bell | approved | S3-231948 |  |
| S3-232122 | Sol#3 Evaluation on exposure of UE identity | Nokia, Nokia Shanghai Bell | approved | S3-231949 |  |
| S3-232123 | EN removal multiple AMF scenarios Veriant1 | Nokia, Nokia Shanghai Bell | approved | S3-231816 |  |
| S3-232124 | Ranging - New solution KI#5 | Philips International B.V. | approved | S3-231823 |  |
| S3-232125 | ProSe - ProSe - New solution KI#1, 2 | Philips International B.V. | approved | S3-231822 |  |
| S3-232126 | Skeleton for AKMA ph2 WID | China Mobile | approved | S3-231981 |  |
| S3-232127 | New solution on security of Ranging/SL positioning groupcast communication | OPPO | approved | S3-232004 |  |
| S3-232128 | Living document for GBA DTLS to TS 33.220 | ZTE Corporation | email approval | S3-231842 |  |
| S3-232129 | pCR Resolving EN in conclusion of ACM\_SBA KI#5 | Nokia, Nokia Shanghai Bell, Orange | approved | S3-231735 |  |
| S3-232130 | pCR Conclusion of ACM\_SBA KI#6 | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | approved | S3-231738 |  |
| S3-232131 | pCR Conclusion of ACM\_SBA KI#8 | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | approved | S3-231737 |  |
| S3-232132 | pCR Conclusion of ACM\_SBA KI#9 | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | approved | S3-231736 |  |
| S3-232133 | draft TR 33.858 v1.1.0 | Ericsson | approved |  |  |
| S3-232134 | Draft TR 33.886 for eNS3 | Huawei Tech.(UK) Co.. Ltd | approved |  |  |
| S3-232135 | Changes to living document for GBA DTLS | THALES | approved | S3-231827 |  |
| S3-232136 | Solutions using credential holder for KI#1 | CableLabs, Charter Communications | approved | S3-232092 |  |
| S3-232137 | Additional conclusions on credential holder for KI#1 | CableLabs, Charter Communications | approved | S3-232093 |  |
| S3-232138 | New solution on Protecting Ranging/SL Positioning discovery out of network coverage | BUPT, OPPO | approved | S3-232006 |  |
| S3-232139 | New solution on KI#5 protection of broadcast communication | BUPT | approved | S3-232094 |  |
| S3-232140 | pCR to TR33.740 Update Solution16 for removing EN | CATT | approved | S3-232008 |  |
| S3-232141 | pCR to TR33.740 Update Solution28 for removing ENs | CATT | approved | S3-232009 |  |
| S3-232142 | Draft skeleton for ProSe Ph2 normative work | CATT | approved | S3-232007 |  |
| S3-232143 | Update solution #2 of TR 33.85 | Xiaomi communications | approved | S3-232067 |  |
| S3-232144 | KI#1 and KI#2 New Sol on resource owner policies based authorization mechanism | Xiaomi communications | approved | S3-232076 |  |
| S3-232145 | KI#2 New Sol on User authorization revocation for API invocation procedure | Xiaomi communications | approved | S3-232077 |  |
| S3-232146 | Draft TR 33.740 | CATT | approved |  |  |
| S3-232147 | Skeleton\_ACM\_SBA\_normative | Nokia, Nokia Shanghai Bell | approved | S3-231740 |  |
| S3-232148 | pCR to TR33.893 New solution for provisioning broadcast protection keys in coverage | CATT | approved | S3-232012 |  |
| S3-232149 | pCR to TR33.893 New solution for provisioning groupcast/broadcast protection keys out of coverage | CATT | approved | S3-232013 |  |
| S3-232150 | pCR to TR33.893 New solution for protecting groupcast/broadcast messages | CATT | approved | S3-232015 |  |
| S3-232151 | Resolution of EN related to encryption in KI#3 conclusion in eNA\_SEC\_Ph3 | Nokia, Nokia Shanghai Bell, Lenovo, Intel, Ericsson | approved | S3-231729 |  |
| S3-232152 | skeleton draft CR 33.122 on SNAAPPY | NTT DOCOMO INC. | approved | S3-231957 |  |
| S3-232153 | Addressing editor's notes for solution 6.7 | NTT DOCOMO INC. | approved | S3-232096 |  |
| S3-232154 | New solution: authorization revocation for persistent changes | NTT DOCOMO INC. | approved | S3-232097 |  |
| S3-232155 | LS on Roaming architecture updates | NTT DOCOMO INC. | approved |  |  |
| S3-232156 | Draft TR 33.882 v0.7.0 for FS\_PIN\_Sec | vivo | approved |  |  |
| S3-232157 | update to solution 15 | Huawei, HiSilicon | approved | S3-231895 |  |
| S3-232158 | update to solution 1 | Huawei, HiSilicon | approved | S3-231896 |  |
| S3-232159 | Add conclusion for key issue #1 | Huawei, HiSilicon | approved | S3-231905 |  |
| S3-232160 | New Solution on Revocation using Short-lived Token | Huawei, HiSilicon | approved | S3-231908 |  |
| S3-232161 | Conclusion on Revocation for key issue#2 | Huawei, HiSilicon | approved | S3-231909 |  |
| S3-232162 | Update on solution #1 | Huawei, HiSilicon | approved | S3-231910 |  |
| S3-232163 | Address EN on solutiion #1 message of scope | Huawei, HiSilicon | approved | S3-231913 |  |
| S3-232164 | Add Evaluation for Solution for Authorization for eNA Roaming | Huawei, HiSilicon | approved | S3-231915 |  |
| S3-232165 | Address EN and update evaluation to Sol#13 | Huawei, HiSilicon | approved | S3-231920 |  |
| S3-232166 | conclusion for the KI#4 in TR 33.893 | Huawei, HiSilicon | approved | S3-231922 |  |
| S3-232167 | Update to the KI#2 conclusion in TR 33.740 | Huawei, HiSilicon, ZTE, China Telecom, Ericsson | approved | S3-231924 |  |
| S3-232168 | living document for HNA | Huawei, HiSilicon | approved | S3-231926 |  |
| S3-232169 | Updating the NOTE1 | Huawei, HiSilicon | approved | S3-231930 |  |
| S3-232170 | Delete Editor's Note to sol#18 | Huawei, HiSilicon | approved | S3-231932 |  |
| S3-232171 | Resolution of ENs and evaluation of Sol#7 KI#6 | Huawei, HiSilicon | withdrawn | - |  |
| S3-232172 | Additions to the evaluation of tenet 5 on security posture | Huawei, HiSilicon, Ericsson, Lenovo | withdrawn | - |  |
| S3-232173 | Updates to the evaluation of tenet 6 on access security | Huawei, HiSilicon, Lenovo | withdrawn | - |  |
| S3-232174 | update to conclusion for KI#1.2 | Huawei,HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-231945 |  |
| S3-232175 | Conclusion on Key Issue #4 in TR 33.876 | Beijing Xiaomi Mobile Software, Nokia, Nokia Shanghai Bell | approved | S3-232061 |  |
| S3-232176 | 33.700-28: Update to Key Issue #1 | Xiaomi Technology | approved | S3-232043 |  |
| S3-232177 | 33.700-28: Solution on AF Authorization for Providing Satellite Coverage Information | Xiaomi Technology | withdrawn | - |  |
| S3-232178 | 33.700-28: Conclusion on Key Issue #1 | Xiaomi Technology | withdrawn | - |  |
| S3-232179 | 33.893: Additional Evaluation for Solution #1 | Xiaomi Technology | approved | S3-232029 |  |
| S3-232180 | 33.893: Resolve the Editor’s Note in Solution #8 | Xiaomi Technology | approved | S3-232031 |  |
| S3-232181 | 33.893: New Solution on Privacy Protection of Located UE during its Discovery and Selection | Xiaomi Technology | approved | S3-232033 |  |
| S3-232182 | 33.893: Conclusion on Key Issue #1 | Xiaomi Technology | approved | S3-232038 |  |
| S3-232183 | 33.893: Update to Solution #2 | Xiaomi Technology | approved | S3-232030 |  |
| S3-232184 | 33.893: New Solution on Client UE Authorization for Service Exposure through the Network | Xiaomi Technology | approved | S3-232034 |  |
| S3-232185 | 33.893: Further Conclusions for KI#2 on Authorization for Service Exposure | Xiaomi Technology | approved | S3-232039 |  |
| S3-232186 | Update conclusion for key issue #5 | China Mobile | approved | S3-231978 |  |
| S3-232187 | 33.893: Further Conclusions for KI#2 on Authorization of UE Role | Xiaomi Technology | approved | S3-232040 |  |
| S3-232188 | 33.893: Resolve the Editor’s Note in Solution #14 | Xiaomi Technology | approved | S3-232032 |  |
| S3-232189 | Skeleton for Security aspects of enablers for Network Automation for 5G - phase 3 | China Mobile | approved | S3-231980 |  |
| S3-232190 | 33.893: Conclusion on Key Issue #4 | Xiaomi Technology | approved | S3-232042 |  |
| S3-232191 | Remove the Editor's Note and evaluate the solution #7 in TR 33.740 | Beijing Xiaomi Mobile Software | approved | S3-232054 |  |
| S3-232192 | Update to solution #30 in TR 33.740 | Beijing Xiaomi Mobile Software | approved | S3-232056 |  |
| S3-232193 | Remove the Editor’s Note related to the message type between AMF and UDM in the HONTRA | Beijing Xiaomi Mobile Software, Huawei,HiSilicon | approved | S3-232062 |  |
| S3-232194 | Skeleton for TS 33.533 | Xiaomi Technology | approved | S3-232027 |  |
| S3-232195 | Draft TS 33.533 v0.0.0 | Xiaomi Technology | approved |  |  |
| S3-232196 | Draft TR 33.700-28 v0.4.0 | Xiaomi Technology | approved |  |  |
| S3-232197 | Draft TR 33.893 v0.7.0 | Xiaomi Technology | approved |  |  |
| S3-232198 | 33.700-28: Solution on AF Authorization for Providing Satellite Coverage Information | Xiaomi Technology, Nokia, Nokia Shanghai Bell | approved | S3-232044 |  |
| S3-232199 | 33.700-28: Conclusion on Key Issue #1 | Xiaomi Technology, Nokia, Nokia Shanghai Bell | approved | S3-232045 |  |
| S3-232200 | new draft TR 33.884 | NTT DOCOMO INC. | approved |  |  |
| S3-232201 | Updates on the solution #15 | Qualcomm Incorporated | approved | S3-231807 |  |
| S3-232202 | Conclusion of KI#1 | Qualcomm Incorporated, Deutsche Telekom, Philips International B.V. | approved | S3-231799 |  |
| S3-232203 | Updates on the solution #23 | Qualcomm Incorporated | approved | S3-231800 |  |
| S3-232204 | Updates on the solution #24 | Qualcomm Incorporated | approved | S3-231801 |  |
| S3-232205 | Resolving ENs in solution #6 | Ericsson | approved | S3-231884 |  |
| S3-232206 | Update the key issue on EAS discovery security | Ericsson | approved | S3-231878 |  |
| S3-232207 | Update solution #23 EAS discovery procedure protection | Ericsson | approved | S3-231879 |  |
| S3-232208 | Resolving EN in solution #25 | Ericsson | approved | S3-231881 |  |
| S3-232209 | New key issue on EEC provided IP address verification | Ericsson, Apple | approved | S3-231876 |  |
| S3-232210 | A solution for EEC provided IP address verification | Ericsson | approved | S3-231877 |  |
| S3-232211 | pCR to living document to TS 33.501: Clarifications and removals of Editor's Notes | Ericsson, Lenovo, Nokia, Nokia Shanghai Bell, Samsung, ZTE | approved | S3-231765 |  |
| S3-232212 | pCR to GBA OSCORE living doc: Clarifications | Ericsson | approved | S3-231767 |  |
| S3-232213 | Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol | Ericsson | approved | S3-231766 |  |
| S3-232214 | Adding evalution for Sol#26 | Huawei, HiSilicon | approved | S3-231958 |  |
| S3-232215 | Adding evalution for sol#27 | Huawei, HiSilicon | approved | S3-231959 |  |
| S3-232216 | living CR of FS\_EDGE\_Ph2 | Huawei, HiSilicon | approved | S3-231961 |  |
| S3-232217 | living CR of FS\_EDGE\_Ph2 | Huawei, HiSilicon | approved | S3-231963 |  |
| S3-232218 | new draft TR 33.739 | Huawei, HiSilicon | approved |  |  |
| S3-232219 | Skeleton for NG\_RTC\_SEC | Huawei, HiSilicon | approved | S3-231969 |  |
| S3-232220 | new draft TR 33.890 | Huawei, HiSilicon | approved |  |  |
| S3-232221 | EN Resolution of Sol #33 | Samsung, KT | approved | S3-231998 |  |
| S3-232222 | Updates to Sol#11 | Samsung | approved | S3-232001 |  |
| S3-232223 | Resolution of EN – conclusion to KI#1 – Untrusted access | Nokia, Nokia Shanghai Bell, Ericsson | approved | S3-231829 |  |
| S3-232224 | Updates to Sol#12 | Samsung | approved | S3-232002 |  |
| S3-232225 | New draft TR 33.876 | Nokia Poland | email approval |  |  |
| S3-232226 | evaluation for KI#3 network slice admission control | Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, LG Electronics | approved | S3-232088 |  |
| S3-232227 | Skeleton draft TS 33.528 | BSI (DE) | withdrawn | - |  |
| S3-232228 | draft TR 33.894 v0.6.0 | Lenovo | approved |  |  |
| S3-232229 | draft TR 33.738 0.7.0 | China Mobile | withdrawn |  |  |
| S3-232230 | draft TR 33.738 1.1.0 | China Mobile | approved |  |  |
| S3-232231 | Draft TR 33.898 v0.6.0 | OPPO | approved |  |  |
| S3-232232 | Reply LS on LPP message and supplementary service event report over a user plane connection between UE and LMF and LS on UE event reporting over a user plane connection to LCS client or AF | Ericsson | approved | S3-231758 |  |
| S3-232233 | Protection of broadcast communication | Lenovo | approved | S3-231771 |  |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-231700 | 25/04/2023 15:54:33 | approved |
| S3-231701 | 25/04/2023 15:54:36 | noted |
| S3-231702 | 25/04/2023 15:54:39 | noted |
| S3-231703 | 25/04/2023 15:54:44 | postponed |
| S3-231704 | 25/04/2023 15:58:06 | available |
| S3-231705 | 25/04/2023 15:58:15 | available |
| S3-231706 | 25/04/2023 16:00:09 | noted |
| S3-231707 | 25/04/2023 16:00:13 | noted |
| S3-231708 | 25/04/2023 16:00:15 | noted |
| S3-231709 | 25/04/2023 16:00:18 | noted |
| S3-231710 | 25/04/2023 16:00:26 | noted |
| S3-231711 | 25/04/2023 16:00:26 | noted |
| S3-231712 | 25/04/2023 16:00:30 | noted |
| S3-231713 | 25/04/2023 16:00:34 | noted |
| S3-231714 | 26/04/2023 13:09:24 | noted |
| S3-231715 | 25/04/2023 16:00:40 | postponed |
| S3-231716 | 25/04/2023 16:01:10 | noted |
| S3-231717 | 25/04/2023 16:01:16 | postponed |
| S3-231718 | 25/04/2023 16:01:32 | noted |
| S3-231719 | 25/04/2023 16:02:35 | noted |
| S3-231720 | 25/04/2023 16:02:38 | noted |
| S3-231721 | 25/04/2023 16:02:39 | noted |
| S3-231721 | 27/04/2023 06:42:31 | postponed |
| S3-231722 | 26/04/2023 13:59:21 | available |
| S3-231723 | 26/04/2023 13:59:48 | noted |
| S3-231724 | 26/04/2023 13:10:58 | noted |
| S3-231726 | 26/04/2023 13:11:02 | noted |
| S3-231727 | 26/04/2023 13:11:07 | noted |
| S3-231728 | 26/04/2023 13:11:07 | noted |
| S3-231730 | 26/04/2023 12:51:35 | noted |
| S3-231731 | 26/04/2023 12:53:31 | noted |
| S3-231732 | 26/04/2023 12:52:23 | noted |
| S3-231733 | 26/04/2023 12:51:44 | noted |
| S3-231734 | 26/04/2023 12:51:30 | noted |
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| S3-231741 | 26/04/2023 14:00:02 | noted |
| S3-231742 | 26/04/2023 14:09:07 | noted |
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| S3-231746 | 26/04/2023 12:53:01 | noted |
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| S3-231750 | 26/04/2023 14:01:23 | noted |
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| S3-231836 | 26/04/2023 12:57:42 | available |
| S3-231837 | 26/04/2023 12:53:25 | approved |
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| S3-231853 | 26/04/2023 13:03:20 | noted |
| S3-231854 | 26/04/2023 13:35:57 | noted |
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| S3-231875 | 26/04/2023 12:51:03 | noted |
| S3-231880 | 26/04/2023 13:03:54 | noted |
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| S3-231883 | 26/04/2023 13:08:56 | noted |
| S3-231885 | 26/04/2023 13:08:20 | noted |
| S3-231886 | 26/04/2023 12:17:21 | withdrawn |
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| S3-231893 | 26/04/2023 13:31:10 | noted |
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| S3-231903 | 26/04/2023 12:52:40 | noted |
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| S3-231916 | 26/04/2023 12:52:09 | noted |
| S3-231917 | 26/04/2023 13:30:04 | noted |
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| S3-231923 | 26/04/2023 12:36:37 | noted |
| S3-231925 | 26/04/2023 12:51:01 | noted |
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| S3-231929 | 25/04/2023 17:20:18 | available |
| S3-231931 | 25/04/2023 16:04:30 | available |
| S3-231933 | 26/04/2023 13:29:19 | noted |
| S3-231934 | 26/04/2023 13:11:55 | noted |
| S3-231935 | 25/04/2023 16:04:49 | noted |
| S3-231936 | 25/04/2023 16:04:53 | noted |
| S3-231938 | 26/04/2023 12:50:02 | available |
| S3-231939 | 26/04/2023 12:49:02 | available |
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| S3-231941 | 26/04/2023 13:58:29 | approved |
| S3-231943 | 26/04/2023 13:04:01 | noted |
| S3-231944 | 26/04/2023 13:04:07 | approved |
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| S3-231960 | 26/04/2023 13:08:36 | noted |
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| S3-231972 | 25/04/2023 17:20:25 | noted |
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| S3-231993 | 26/04/2023 13:05:20 | noted |
| S3-231994 | 26/04/2023 12:19:32 | approved |
| S3-231995 | 26/04/2023 14:00:13 | noted |
| S3-231996 | 26/04/2023 14:00:18 | noted |
| S3-231997 | 26/04/2023 14:00:39 | noted |
| S3-231999 | 26/04/2023 12:47:14 | noted |
| S3-232000 | 26/04/2023 13:16:11 | available |
| S3-232003 | 26/04/2023 13:12:53 | noted |
| S3-232010 | 26/04/2023 12:18:41 | noted |
| S3-232011 | 26/04/2023 12:36:59 | available |
| S3-232014 | 26/04/2023 13:58:52 | available |
| S3-232016 | 26/04/2023 13:59:31 | noted |
| S3-232017 | 26/04/2023 13:59:56 | noted |
| S3-232018 | 26/04/2023 13:57:01 | approved |
| S3-232019 | 26/04/2023 13:57:14 | noted |
| S3-232020 | 26/04/2023 13:57:21 | noted |
| S3-232021 | 26/04/2023 12:53:39 | noted |
| S3-232028 | 26/04/2023 12:19:23 | approved |
| S3-232035 | 26/04/2023 13:32:32 | approved |
| S3-232036 | 26/04/2023 13:55:12 | approved |
| S3-232037 | 26/04/2023 13:55:15 | approved |
| S3-232041 | 26/04/2023 13:34:11 | noted |
| S3-232046 | 26/04/2023 14:02:35 | noted |
| S3-232047 | 26/04/2023 14:02:36 | noted |
| S3-232048 | 26/04/2023 12:37:06 | noted |
| S3-232049 | 26/04/2023 12:46:07 | noted |
| S3-232050 | 26/04/2023 12:46:43 | noted |
| S3-232051 | 26/04/2023 12:21:37 | noted |
| S3-232052 | 26/04/2023 12:21:38 | noted |
| S3-232053 | 26/04/2023 12:21:41 | noted |
| S3-232055 | 26/04/2023 12:21:51 | noted |
| S3-232057 | 26/04/2023 12:22:04 | noted |
| S3-232058 | 26/04/2023 13:33:01 | noted |
| S3-232059 | 26/04/2023 13:33:26 | approved |
| S3-232060 | 26/04/2023 13:32:41 | noted |
| S3-232063 | 25/04/2023 17:20:45 | available |
| S3-232064 | 25/04/2023 16:06:01 | noted |
| S3-232065 | 26/04/2023 13:04:55 | noted |
| S3-232066 | 26/04/2023 13:30:15 | noted |
| S3-232068 | 25/04/2023 16:06:49 | noted |
| S3-232069 | 25/04/2023 16:06:52 | noted |
| S3-232070 | 26/04/2023 13:12:17 | noted |
| S3-232071 | 26/04/2023 13:11:58 | noted |
| S3-232072 | 26/04/2023 13:11:18 | approved |
| S3-232073 | 26/04/2023 13:27:01 | approved |
| S3-232074 | 26/04/2023 13:15:45 | approved |
| S3-232075 | 26/04/2023 13:15:49 | approved |
| S3-232078 | 26/04/2023 13:15:43 | approved |
| S3-232079 | 26/04/2023 13:12:41 | noted |
| S3-232080 | 26/04/2023 13:55:51 | noted |
| S3-232081 | 26/04/2023 13:56:55 | noted |
| S3-232082 | 26/04/2023 12:47:21 | noted |
| S3-232083 | 26/04/2023 12:46:12 | noted |
| S3-232084 | 26/04/2023 13:24:53 | noted |
| S3-232085 | 26/04/2023 13:25:14 | noted |
| S3-232086 | 26/04/2023 13:25:17 | noted |
| S3-232087 | 26/04/2023 13:25:46 | noted |
| S3-232089 | 26/04/2023 13:27:23 | noted |
| S3-232090 | 25/04/2023 15:59:37 | available |
| S3-232091 | 25/04/2023 15:59:15 | available |
| S3-232095 | 26/04/2023 13:14:34 | approved |
| S3-232098 | 26/04/2023 13:27:56 | approved |
| S3-232099 | 26/04/2023 12:49:32 | approved |
| S3-232100 | 26/04/2023 12:16:17 | approved |
| S3-232101 | 26/04/2023 12:50:37 | approved |
| S3-232102 | 26/04/2023 13:58:35 | approved |
| S3-232103 | 26/04/2023 13:59:39 | approved |
| S3-232104 | 25/04/2023 16:04:06 | approved |
| S3-232105 | 26/04/2023 13:03:32 | approved |
| S3-232106 | 26/04/2023 13:15:08 | approved |
| S3-232107 | 26/04/2023 13:15:12 | approved |
| S3-232108 | 25/04/2023 16:03:33 | approved |
| S3-232109 | 26/04/2023 13:30:41 | approved |
| S3-232110 | 25/04/2023 16:07:14 | approved |
| S3-232111 | 26/04/2023 12:22:13 | approved |
| S3-232112 | 26/04/2023 12:22:15 | approved |
| S3-232113 | 26/04/2023 12:22:19 | noted |
| S3-232113 | 26/04/2023 12:23:10 | approved |
| S3-232114 | 25/04/2023 16:05:23 | reserved |
| S3-232114 | 26/04/2023 15:07:49 | approved |
| S3-232115 | 26/04/2023 14:00:44 | reserved |
| S3-232115 | 26/04/2023 15:16:05 | approved |
| S3-232116 | 26/04/2023 14:00:26 | approved |
| S3-232117 | 26/04/2023 12:51:52 | approved |
| S3-232118 | 26/04/2023 13:09:42 | approved |
| S3-232119 | 26/04/2023 13:13:44 | approved |
| S3-232120 | 26/04/2023 13:14:51 | approved |
| S3-232121 | 26/04/2023 13:14:50 | approved |
| S3-232122 | 26/04/2023 13:14:58 | approved |
| S3-232123 | 25/04/2023 17:19:49 | approved |
| S3-232124 | 26/04/2023 13:35:50 | approved |
| S3-232125 | 26/04/2023 12:23:17 | approved |
| S3-232126 | 26/04/2023 12:17:08 | approved |
| S3-232127 | 26/04/2023 13:36:09 | approved |
| S3-232128 | 25/04/2023 16:05:53 | reserved |
| S3-232129 | 26/04/2023 12:48:16 | approved |
| S3-232130 | 26/04/2023 12:48:21 | approved |
| S3-232131 | 26/04/2023 12:49:44 | approved |
| S3-232132 | 26/04/2023 12:50:12 | approved |
| S3-232133 | 26/04/2023 14:08:27 | approved |
| S3-232134 | 26/04/2023 13:26:20 | reserved |
| S3-232134 | 26/04/2023 15:16:10 | approved |
| S3-232135 | 25/04/2023 16:05:44 | approved |
| S3-232136 | 26/04/2023 13:30:24 | approved |
| S3-232137 | 26/04/2023 13:30:27 | approved |
| S3-232138 | 26/04/2023 13:33:42 | approved |
| S3-232139 | 26/04/2023 13:55:22 | approved |
| S3-232140 | 26/04/2023 12:21:10 | approved |
| S3-232141 | 26/04/2023 12:21:13 | approved |
| S3-232142 | 26/04/2023 12:18:11 | approved |
| S3-232143 | 26/04/2023 13:29:30 | approved |
| S3-232144 | 26/04/2023 13:24:24 | approved |
| S3-232145 | 26/04/2023 13:24:27 | approved |
| S3-232146 | 26/04/2023 12:21:16 | reserved |
| S3-232146 | 26/04/2023 15:16:15 | approved |
| S3-232147 | 26/04/2023 12:16:38 | approved |
| S3-232148 | 26/04/2023 13:36:15 | approved |
| S3-232149 | 26/04/2023 13:54:56 | approved |
| S3-232150 | 26/04/2023 13:55:02 | approved |
| S3-232151 | 26/04/2023 12:52:51 | approved |
| S3-232152 | 26/04/2023 12:19:53 | approved |
| S3-232153 | 26/04/2023 13:15:35 | approved |
| S3-232154 | 26/04/2023 13:24:32 | approved |
| S3-232155 | 26/04/2023 14:07:26 | approved |
| S3-232156 | 26/04/2023 14:07:57 | approved |
| S3-232157 | 26/04/2023 13:35:30 | approved |
| S3-232158 | 26/04/2023 13:31:34 | approved |
| S3-232159 | 26/04/2023 13:56:31 | approved |
| S3-232160 | 26/04/2023 13:16:30 | approved |
| S3-232161 | 26/04/2023 13:12:26 | approved |
| S3-232162 | 26/04/2023 13:13:01 | approved |
| S3-232163 | 26/04/2023 13:13:12 | approved |
| S3-232164 | 26/04/2023 12:52:02 | approved |
| S3-232165 | 26/04/2023 13:34:18 | approved |
| S3-232166 | 26/04/2023 13:34:58 | approved |
| S3-232167 | 26/04/2023 12:45:46 | approved |
| S3-232168 | 26/04/2023 12:15:03 | reserved |
| S3-232168 | 26/04/2023 15:16:20 | approved |
| S3-232169 | 26/04/2023 12:14:48 | approved |
| S3-232170 | 26/04/2023 13:29:14 | approved |
| S3-232174 | 26/04/2023 13:04:13 | approved |
| S3-232175 | 26/04/2023 12:47:56 | approved |
| S3-232176 | 26/04/2023 14:01:39 | approved |
| S3-232179 | 26/04/2023 13:31:47 | approved |
| S3-232180 | 26/04/2023 13:31:51 | approved |
| S3-232181 | 26/04/2023 13:31:55 | approved |
| S3-232182 | 26/04/2023 13:32:15 | approved |
| S3-232183 | 26/04/2023 13:32:20 | approved |
| S3-232184 | 26/04/2023 13:32:24 | approved |
| S3-232185 | 26/04/2023 13:32:48 | approved |
| S3-232186 | 26/04/2023 12:57:50 | approved |
| S3-232187 | 26/04/2023 13:32:54 | approved |
| S3-232188 | 26/04/2023 13:34:27 | approved |
| S3-232189 | 26/04/2023 12:17:30 | approved |
| S3-232190 | 26/04/2023 13:35:06 | approved |
| S3-232191 | 26/04/2023 12:21:46 | approved |
| S3-232192 | 26/04/2023 12:21:57 | approved |
| S3-232193 | 25/04/2023 17:19:38 | approved |
| S3-232194 | 26/04/2023 12:18:53 | approved |
| S3-232195 | 26/04/2023 12:19:35 | reserved |
| S3-232195 | 26/04/2023 15:16:29 | approved |
| S3-232196 | 26/04/2023 14:02:45 | reserved |
| S3-232196 | 26/04/2023 15:16:38 | approved |
| S3-232197 | 26/04/2023 13:34:35 | reserved |
| S3-232197 | 26/04/2023 15:16:44 | approved |
| S3-232198 | 26/04/2023 14:02:05 | approved |
| S3-232199 | 26/04/2023 13:14:16 | approved |
| S3-232200 | 26/04/2023 13:13:20 | reserved |
| S3-232200 | 26/04/2023 15:11:49 | approved |
| S3-232201 | 26/04/2023 13:35:21 | approved |
| S3-232202 | 26/04/2023 12:36:15 | approved |
| S3-232203 | 26/04/2023 12:20:09 | approved |
| S3-232204 | 26/04/2023 12:20:15 | approved |
| S3-232205 | 26/04/2023 13:15:24 | approved |
| S3-232206 | 26/04/2023 13:03:46 | approved |
| S3-232207 | 26/04/2023 13:03:49 | approved |
| S3-232208 | 26/04/2023 13:04:21 | approved |
| S3-232209 | 26/04/2023 13:08:42 | approved |
| S3-232210 | 26/04/2023 13:08:48 | approved |
| S3-232211 | 25/04/2023 17:20:55 | approved |
| S3-232212 | 25/04/2023 16:06:32 | approved |
| S3-232213 | 25/04/2023 16:06:18 | reserved |
| S3-232213 | 26/04/2023 15:08:06 | approved |
| S3-232214 | 26/04/2023 13:08:28 | approved |
| S3-232215 | 26/04/2023 13:08:31 | approved |
| S3-232216 | 26/04/2023 12:16:55 | approved |
| S3-232217 | 26/04/2023 12:17:02 | approved |
| S3-232218 | 26/04/2023 13:04:31 | reserved |
| S3-232218 | 26/04/2023 15:16:50 | approved |
| S3-232219 | 26/04/2023 12:16:46 | approved |
| S3-232220 | 26/04/2023 13:28:01 | reserved |
| S3-232220 | 26/04/2023 15:16:56 | approved |
| S3-232221 | 26/04/2023 12:21:00 | approved |
| S3-232222 | 26/04/2023 13:15:59 | approved |
| S3-232223 | 26/04/2023 13:29:49 | approved |
| S3-232224 | 26/04/2023 13:16:22 | approved |
| S3-232225 | 26/04/2023 12:48:02 | reserved |
| S3-232226 | 26/04/2023 13:26:51 | approved |
| S3-232227 | 26/04/2023 12:16:03 | withdrawn |
| S3-232228 | 26/04/2023 14:08:41 | approved |
| S3-232230 | 26/04/2023 12:58:41 | reserved |
| S3-232230 | 26/04/2023 13:00:47 | approved |
| S3-232231 | 26/04/2023 13:56:38 | reserved |
| S3-232231 | 26/04/2023 15:14:37 | approved |
| S3-232232 | 25/04/2023 15:57:28 | approved |
| S3-232233 | 26/04/2023 13:35:41 | approved |

## Annex B: Lists of liaisons

### B1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-231703 |  | LS on user consent for UE location sharing | S6-230351 | postponed | (none) |
| S3-231704 |  | LS on UE event reporting over a user plane connection to LCS client or AF | S2-2301789 | replied to | S3-232232 |
| S3-231705 |  | LS on LPP message and supplementary service event report over a user plane connection between UE and LMF | S2-2301857 | replied to | S3-232232 |
| S3-231706 |  | LS Reply to 3GPP on SEPP Certificates | GSMA | noted | (none) |
| S3-231707 |  | LS on UE specific data and analytics exchange between HPLMN and VPLMN | S2-2303548 | noted | (none) |
| S3-231708 |  | Reply LS on Support PIN application architecture and interaction | S2-2303698 | noted | (none) |
| S3-231709 |  | Reply LS on SNAAPP requirements clarifications | S1-230591 | noted | (none) |
| S3-231710 |  | Reply LS on the data and analytics exchange between two NWDAFs in different PLMNs | S2-2303563 | noted | (none) |
| S3-231711 |  | Reply LS on Progress and open issues for NPN enhancements in Rel-18 | S2-2303689 | noted | (none) |
| S3-231712 |  | Reply LS on clarification on user consent for AI/ML | S2-2303834 | noted | (none) |
| S3-231713 |  | LS reply to Reply LS on Network federation interface for Telco edge consideration | S5-233146 | noted | (none) |
| S3-231714 |  | LS on Alignment of SA3 security aspects for Personal IoT Networks | S6-230792 | replied to | S3-232118 |
| S3-231715 |  | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-231061 | postponed | (none) |
| S3-231716 |  | LS to SA2 on Sidelink positioning procedure | R2-2302285 | noted | (none) |
| S3-231717 |  | LS to 3GPP on GSMA requirements regarding intermediaries in the roaming ecosystem (Roaming Hub, IPX and RVAS Providers) | GSMA | postponed | (none) |
| S3-231718 |  | LS response to 3GPP on IPX Requirements for 5GS Roaming | GSMA | noted | (none) |
| S3-231719 |  | LS Roaming Value Added Service Requirements | GSMA | noted | (none) |
| S3-231720 |  | LS with Roaming Hubbing requirements and LS response to 3GPP SA3 LS(S3-214456) on 5GS Roaming Hubbing | GSMA | noted | (none) |
| S3-231721 |  | LS on GSMA 5GMRR Working Solution Assumption L-PRINS and Data Session Control | GSMA | postponed | (none) |

### B2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-232108 | LS on Prose Secondary Authentication | SA2 | CT1 |  |
| S3-232118 | Reply LS on Alignment of SA3 security aspects for Personal IoT Networks | SA6 | SA2 | S3-231714 |
| S3-232155 | LS on Roaming architecture updates | SA2, SA1 | SA, CT4 |  |
| S3-232232 | Reply LS on LPP message and supplementary service event report over a user plane connection between UE and LMF and LS on UE event reporting over a user plane connection to LCS client or AF | SA2, RAN2, CT1, CT3, CT4 | - | S3-231705, S3-231704 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-231759 | 33.528 | 0.0.0 | Skeleton draft TS 33.528 |
| S3-232115 | 33.883 | 0.7.0 | TR 33.883 for 5MBS security |
| S3-232133 | 33.858 | 1.1.0 | draft TR 33.858 v1.1.0 |
| S3-232134 | 33.886 | 0.5.0 | Draft TR 33.886 for eNS3 |
| S3-232146 | 33.740 | 0.7.0 | Draft TR 33.740 |
| S3-232156 | 33.882 | 0.7.0 | Draft TR 33.882 v0.7.0 for FS\_PIN\_Sec |
| S3-232195 | 33.533 | 0.0.0 | Draft TS 33.533 v0.0.0 |
| S3-232196 | 33.700-28 | 0.4.0 | Draft TR 33.700-28 v0.4.0 |
| S3-232197 | 33.893 | 0.7.0 | Draft TR 33.893 v0.7.0 |
| S3-232200 | 33.884 | 1.1.0 | new draft TR 33.884 |
| S3-232218 | 33.739 | 0.7.0 | new draft TR 33.739 |
| S3-232220 | 33.890 | 0.7.0 | new draft TR 33.890 |
| S3-232225 | 33.876 | 0.7.0 | New draft TR 33.876 |
| S3-232227 | 33.528 | 0.0.0 | Skeleton draft TS 33.528 |
| S3-232228 | 33.894 | 0.6.0 | draft TR 33.894 v0.6.0 |
| S3-232229 | 33.738 | 1.1.0 | draft TR 33.738 0.7.0 |
| S3-232230 | 33.738 | 1.1.0 | draft TR 33.738 1.1.0 |
| S3-232231 | 33.898 | 0.6.0 | Draft TR 33.898 v0.6.0 |

## Annex D: List of participants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Organization Represented |
| Mr. | Ahmad | Saad | Delegate | InterDigital, Inc. | InterDigital Belgium. LLC |
| Mr. | Ai | Ming | Delegate | CATT | Fiberhome Technologies Group |
| Mr. | Andreas | Joerg | Delegate | BSI (DE) | BSI (DE) |
| Dr. | Ben Henda | Noamen | Delegate | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bhatt | Rakshesh P. | Delegate | Nokia Japan | Nokia Japan |
| Mr. | Bjerrum | Bo Holm | Delegate | Nokia Corporation | Nokia Denmark |
| Mr. | Brusilovsky | Alec | Delegate | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Cano Soveri | Mirko | Secretary | ETSI | ETSI |
| Dr. | Cetinkaya | Egemen | Delegate | Verizon UK Ltd | Verizon Denmark |
| Ms. | CHAKRABARTI | SAMITA | Delegate | Verizon UK Ltd | Verizon Switzerland AG |
| Mr. | Chelle | Venkata Rama Raju | Delegate | Department of Telecom | Department of Telecom |
| Mr. | Chen | Jingran | Delegate | OPPO | Shenzhen Heytap |
| Ms. | Chen | Lijuan | Delegate | ZTE Corporation | ShenZhen Zhongxing Shitong |
| Mr. | Cheng | Sihan | Delegate | vivo Mobile Communication Co., | Nanjing Weibo |
| Dr. | Chiba | Tsunehiko | Delegate | VIAVI Solutions | VIAVI Solutions |
| Mr. | Choi | Hongjin | Delegate | Samsung R&D Institute UK | Samsung Research America |
| Miss | chong | vivian | Delegate | VIVO TECH GmbH | VIVO TECH GmbH |
| Mr. | Chou | Joey | Delegate | Intel Corporation (UK) Ltd | Intel Korea, Ltd. |
| Mr. | Cichonski | Jeffrey | Delegate | NIST | NIST |
| Mr. | Cong | Shi | Delegate | Guangdong OPPO Mobile Telecom. | Chongqing Angying |
| Mr. | Deng | Qiang | Delegate | CATT | CICT |
| Mr. | Deng | yiwei | Delegate | TCL Communication Ltd. | TCL Communication Ltd. |
| Mr. | Diaz | Edward | Delegate | Verizon UK Ltd | Verizon Spain |
| Mr. | Doerr | Johannes | Delegate | BMWK | BMWK |
| Dr. | Dong | Hao | Delegate | ZTE Corporation | ZTE Photonics |
| Mr. | Doubrava | Michael | Delegate | BSI (DE) | BSI (DE) |
| Mr. | Eckel | Charles | Delegate | Cisco Systems Belgium | Cisco Systems Belgium |
| Dr. | Engström | Alexander | Delegate | NDRE | NDRE |
| 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 |
| Mrs. | Fan | Ning | Delegate | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Ferdi | Samir | Delegate | InterDigital, Inc. | InterDigital, Europe, Ltd. |
| Miss | Flygare | Helena | Delegate | Ericsson LM | Nanjing Ericsson Panda Com Ltd |
| Mr. | Gadhai | Shyam Vijay | Delegate | IIT Kanpur | IIT Kanpur |
| Ing. | Gallo | Luigi | Delegate | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mrs. | Gan | Lu | Delegate | OPPO | OnePlus |
| Dr. | Garcia-Morchon | Oscar | Delegate | Philips International B.V. | Philips International B.V. |
| Mr. | Gholmieh | Aziz | Delegate | Qualcomm Technologies Int | Qualcomm Technologies Int |
| Mr. | Goldberg | Martin | Delegate | U.S. National Security Agency | U.S. National Security Agency |
| Ms. | Gong | Ruby | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Electronics |
| Mr. | Guo | Boren | Delegate | OPPO | OTECH |
| Ms. | Guo | Yali | Delegate | OPPO Beijing | Shenzhen Heytap |
| Mr. | Guo | Yi | Delegate | Intel Corporation (UK) Ltd | Intel Belgium SA/NV |
| Mr. | Gustafsson | Sune | Delegate | Ericsson LM | Ericsson LM |
| Dr. | Han | Jaemin | Delegate | Intel Technology India Pvt Ltd | Intel Romania |
| Mr. | Hanhisalo | Markus | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Harper | Colby | Delegate | Pivotal Commware | Pivotal Commware |
| Miss | Hou | Yunjing | Delegate | CATT | GOHIGH DATA NETWORKS TECH. |
| Mr. | Hu | Li | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies R&D UK |
| Miss | Jerichow | Anja | Delegate | Nokia Germany | Nokia UK |
| Mr. | Jin | James | Delegate | vivo Mobile Communication Co., | GUANGDONG GENIUS TECHNOLOGY CO |
| Dr. | Jost | Christine | Delegate | Ericsson LM | Ericsson LM |
| Dr. | K | Sowjanya | Delegate | TSDSI | TSDSI |
| Mr. | Kakinada | Achari | Delegate | Charter Communications, Inc | Charter Communications, Inc |
| Dr. | Karakoc | Ferhat | Delegate | Ericsson LM | Ericsson LM |
| Miss | Kedalagudde | Meghashree D | Delegate | Intel Deutschland GmbH | Intel Corporation SAS |
| Dr. | Keesmaat | Iko | Delegate | TNO | TNO |
| Dr. | Khan | Mohsin | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Khare | Saurabh | Delegate | Nokia Germany | Nokia Solutions & Networks (I) |
| Mr. | Kim | Anbin | Delegate | LG Electronics France | LG Electronics Polska |
| Dr. | Kim | Hongil | Delegate | Qualcomm Incorporated | Qualcomm Tech. Netherlands B.V |
| Dr. | Kim | Hyunsook | Delegate | LG Electronics Inc. | LG Electronics Inc. |
| Mr. | Kolekar | Abhijeet | Delegate | Intel Corporation (UK) Ltd | Intel |
| Ms. | Koser | Elizabeth | Delegate | U.S. National Security Agency | U.S. National Security Agency |
| Dr. | Lee | Duckey | Delegate | Samsung R&D Institute UK | Samsung R&D Institute UK |
| 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 Tech.(UK) Co.. Ltd |
| Ms. | Li | Chenyi | Delegate | China Unicom | Unicompay |
| Mr. | Li | Fei | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Telecommunication India |
| Dr. | Li | Lun | Delegate | HuaWei Technologies Co., Ltd | HUAWEI TECH. GmbH |
| Mr. | Li | Michael | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Li | Zhendong | Delegate | Nubia Technology Co.,Ltd | ZTE Wistron Telecom AB |
| Mr. | Li | Zhijun | Delegate | ZTE Corporation | ZTE Corporation |
| Dr. | Liang | Haoran | Delegate | Xiaomi Communications | Xiaomi Communications |
| Miss | Liang | Shuang | Delegate | Nubia Technology Co.,Ltd | ZONSON |
| Mr. | Libunao | Gerardo | Delegate | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Liebhart | Rainer | Delegate | Nokia Germany | Nokia Germany |
| Dr. | Lim | Taehyung | Delegate | Samsung R&D Institute UK | Samsung Electronics France SA |
| Mr. | LIU | Jianning(Carry) | Delegate | Beijing Xiaomi Software Tech | Beijing Xiaomi Electronics |
| Miss | Liu | Peilin | Delegate | ZTE Corporation | ZTE Corporation |
| Mr. | Liu | Yuze | Delegate | ZTE Corporation | Sanechips |
| Mr. | Lorenz | Ben | Delegate | BSI (DE) | BSI (DE) |
| Mr. | Lu | Fei | Delegate | Guangdong OPPO Mobile Telecom. | Chengdu OPPO Telecommunication |
| Ms. | Lu | Wei | Delegate | Xiaomi Technology | Xiaomi Technology |
| Ms. | Luan | Xiaoxu | Delegate | Pengcheng laboratory | Pengcheng laboratory |
| Mr. | Ly | Quang | Delegate | Convida Wireless | Convida Wireless |
| Mr. | Lyu | Huazhang | Delegate | vivo Mobile Communication Co., | iQoo |
| Mr. | Ma | Ruitao | Delegate | China Unicom | CITC |
| Mr. | Manganahalli Jayaprakash | Sandesh | Delegate | TNO | KPN N.V. |
| Mr. | MAO | Yuxin | Delegate | Beijing Xiaomi Mobile Software | Xiaomi EV Technology |
| Miss | Martinez Tarradell | Marta | Delegate | Intel | Intel Corporation Italia SpA |
| Dr. | Mohammed Mikaeil | Ahmed | Delegate | TCL Communication Ltd. | TCL Communication Ltd. |
| Mr. | Nair | Suresh | Chair | Nokia Germany | Nokia |
| Mr. | NAKAMURA | Kazuo | Delegate | NICT | NICT |
| Dr. | Nakano | Yuto | Delegate | KDDI Corporation | KDDI Corporation |
| Mr. | Nas | Peter | Delegate | F5 Networks Inc. | F5 |
| Mr. | Naslund | Mats | Delegate | NDRE | NDRE |
| Mr. | Negalaguli | Harish | Delegate | Motorola Solutions UK Ltd. | Motorola Solutions Poland |
| Mrs. | Nisbeth | Daphanie | Delegate | U.S. National Security Agency | U.S. National Security Agency |
| Dr. | Nuggehalli | Pavan | Delegate | Google Inc. | Google Inc. |
| Mr. | Oettl | Martin | Delegate | Nokia Germany | Nokia Austria |
| Mr. | Orkopoulos | Stawros | Delegate | Nokia Germany | Nokia Italy |
| Mr. | Palanigounder | Anand | Delegate | Qualcomm Technologies Int | Qualcomm Incorporated |
| Dr. | Palat | Sudeep | Delegate | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd |
| Ms. | Parambath Sasi | NIvedya | Delegate | Samsung R&D Institute India | Samsung R&D Institute India |
| Dr. | Park | Junhyun | Delegate | Samsung R&D Institute UK | SAMSUNG R&D INSTITUTE JAPAN |
| Mr. | Parsel | Mike | Delegate | T-Mobile USA | T-Mobile USA Inc. |
| Mr. | Pätzold | Thomas | Delegate | Deutsche Telekom AG | Deutsche Telekom AG |
| Mr. | Peinado | German | Delegate | Nokia Germany | Nokia Poland |
| Miss | Ping | Jing | Delegate | Nokia Germany | Nokia Korea |
| Mr. | Pudney | Chris | Delegate | VODAFONE Group Plc | VODAFONE Group Plc |
| Mr. | Qi | Tongya | Delegate | ZEKU | ZEKU |
| Ms. | Rajendran | Rohini | Delegate | Samsung R&D Institute India | Samsung Electronics Romania |
| Mr. | Rathod | Niraj | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Ruan | Bangqiu | Delegate | ZTE Corporation | ZXNE |
| Mr. | Sabah | Noureddine | Delegate | Philips International B.V. | Philips International B.V. |
| Dr. | Shailendra | Samar | Delegate | Intel Technology India Pvt Ltd | Intel Technology India Pvt Ltd |
| Mr. | Shan | Changhong | Delegate | Intel Corporation (UK) Ltd | Intel China Ltd. |
| Mr. | Shang | Chao | Delegate | Xidian University | Xidian University |
| Miss | shang | zhengyi | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Shi | Xiaoyan | Delegate | Intel | Intel Ireland |
| Ms. | So | Tricci | Delegate | OPPO | OPPO |
| Mr. | Srinivasan | Suresh | Delegate | Intel | Intel K.K. |
| Mrs. | Stanetsky | Nataliya | Delegate | Google Ireland Limited | Google Inc. |
| Mr. | Starsinic | Michael | Delegate | InterDigital, Inc. | InterDigital France R&D, SAS |
| Dr. | Staufer | Markus | Delegate | Nokia Germany | Nokia Hungary |
| Mr. | Stojanovski | Saso | Delegate | Intel Deutschland GmbH | Intel Finland Oy |
| Ms. | Sun | Xiaowen | Delegate | vivo Mobile Communication Co., | vivo Mobile Communication (H) |
| Dr. | Tan | Peng | Delegate | Hangzhou Douku | Hangzhou Douku |
| Dr. | Targali | Yousif | Delegate | Verizon UK Ltd | Verizon Sweden |
| Mr. | Thiebaut | Laurent | Delegate | Nokia France | Nokia Belgium |
| Dr. | Tsiatsis | Vlasios | Delegate | Ericsson LM | Ericsson España S.A. |
| Mrs. | Vahidi | Helena | Delegate | Ericsson LM | Ericsson LM |
| Ms. | Wan | Qing | Delegate | CICT | Datang Mobile Com. Equipment |
| Mr. | Wang | Guanzhou | Delegate | InterDigital Communications | InterDigital Finland Oy |
| Ms. | Wang | Hui | Delegate | vivo Communication Technology | vivo Mobile Communication (S) |
| Miss | Wang | Menghan | Delegate | ZTE Corporation | Nubia Technology Co.,Ltd |
| Miss | Wang | Qianran | Delegate | China Telecommunications | China Telecom Corporation Ltd. |
| Dr. | Wang | Shoufeng | Delegate | AsiaInfo Technologies Inc | AsiaInfo |
| Mr. | Wang | Wen | Delegate | vivo Mobile Communication Co., | vivo Mobile Com. (Chongqing) |
| Dr. | Wang | Zhaoning | Delegate | China Unicom | CUG |
| Dr. | Wang | Zhibi | Delegate | InterDigital Communications | InterDigital Communications |
| Ms. | Warren | Denisha | Delegate | U.S. National Security Agency | U.S. National Security Agency |
| Ms. | WEI | QUN | Delegate | China Unicom | BTPDI |
| Ms. | Wifvesson | Monica | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Wong | Marcus | Delegate | OPPO | Hangzhou Mengyuxiang |
| 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 | weizhi | Delegate | IPLOOK | IPLOOK |
| Mr. | Wu | Xiaobo | Delegate | vivo Communication Technology | vivo Japan KK |
| Miss | Wu | Yizhuang | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI Technologies Japan K.K. |
| Mr. | Xie | Baoguo | Delegate | ZTE Corporation | Jetflow |
| Mr. | Xie | Zhenhua | Delegate | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Mr. | Xing | TianQi | Delegate | China Unicom | CU Digital Technology |
| Mr. | Xiong | Chunshan | Delegate | CICT | Datang Linktester Technology |
| Miss | Xiong | Lihui | Delegate | OPPO | Guangdong OPPO Mobile Telecom. |
| Dr. | Xu | Jin | Delegate | BUPT | BUPT |
| Mr. | Xu | Weijie | Delegate | Shenzhen Heytap | OPPO Beijing |
| Mr. | Xu | Yang | Delegate | Guangdong OPPO Mobile Telecom. | OPPO (chongqing) Intelligence |
| Miss | Yan | Xiaojian | Delegate | ZTE Corporation | CALTTA |
| Miss | Yang | Haorui | Delegate | OPPO Beijing | Hangzhou Mengyuxiang |
| Dr. | Yao | Ge | Delegate | China Unicom | VSENS |
| Mr. | Yao | Yizhi | Delegate | Intel Corporation (UK) Ltd | Intel Technology Poland SP Zoo |
| Ms. | Yi | Haofan | Delegate | BJTU | BJTU |
| Mr. | You | Shilin | Delegate | ZTE Corporation | ZTE Korea Limited |
| Mr. | Youn | Myungjune | Delegate | LG Electronics France | LG Electronics Finland |
| Mr. | Yu | Hang | Delegate | vivo Mobile Com. (Chongqing) | vivo Communication Technology |
| Dr. | Zhang | Amy | Delegate | vivo Japan KK | vivo Japan KK |
| Ms. | Zhang | Yajie | Delegate | BUPT | BUPT |
| Mr. | Zhang | Yizhong | Delegate | vivo Mobile Communication (S) | vivo Mobile Communication Co., |
| Miss | ZHAO | HUAN | Delegate | China Unicom | Unicom Broadband Online |
| Dr. | Zhao | Shuai | Delegate | Intel | Intel Sweden AB |
| Dr. | Zhou | Lei | Delegate | New H3C Technologies Co., Ltd. | New H3C Technologies Co., Ltd. |
| Mr. | Zhou | Wei | Delegate | CATT | CATT |
| Miss | Zhou | Xingyue | Delegate | ZTE Corporation | ZTE Corporation. |
| Mr. | Zhu | Jinguo | Delegate | ZTE Corporation. | ZTE FRANCE SASU |

## Annex E: List of future meetings

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| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#111 | 2023-05-22 | 2023-05-26 | Berlin | GR | S3-111 |
| SA3#90-LI | 2023-06-26 | 2023-06-30 | EU | EU | S3-90-LI |
| SA3#112 | 2023-08-14 | 2023-08-18 | Gothemburg | Sw | S3-112 |
| SA3#113 | 2023-11-06 | 2023-11-10 | Chicago | US | S3-113 |
| SA3#114 | 2024-01-22 | 2024-01-26 | TBD |  | S3-114 |
| SA3#115 | 2024-02-26 | 2024-03-01 | EU | EU | S3-115 |
| SA3#116-(option 1) | 2024-05-13 | 2024-05-17 | Korea | KR | S3-116 |
| SA3#116-(option 2) | 2024-05-20 | 2024-05-24 | TBD |  | S3-116 |
| SA3#117 | 2024-08-26 | 2024-08-30 | EU | EU | S3-117 |
| SA3#118 | 2024-10-07 | 2024-10-11 | India | IN | S3-118 |
| SA3#119 | 2024-11-11 | 2024-11-15 | US TBC | US | S3-119 |