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

**Meeting Report  
for  
TSG SA WG3  
meeting: 115**

**Athens, Greece, 26/02/2024 to 01/03/2024**

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## 1 Agenda and Meeting Objectives

Vlasios (Ericsson) welcomed the attendees to the city of Athens and gave some practical information on the meeting facilities.

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.

**S3-240200 Agenda**

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

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

**S3-240203 Process for SA3#115**

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

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

**S3-240204 Detailed agenda planning for SA3#115**

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

**Decision:** The document was **revised to S3-240827**.

**S3-240827 Detailed agenda planning for SA3#115**

*Type: other For: -  
 Source: SA WG3 Chair*

(Replaces S3-240204)

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

## 2 Meeting Reports

**S3-240201 Report from SA3#114e-AdHoc**

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

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

**S3-240202 Report from SA3#113**

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

**Decision:** The document was **revised to S3-240826**.

**S3-240826 Report from SA3#113**

*Type: report For: -  
 Source: MCC*

(Replaces S3-240202)

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

**S3-240206 Report to SA3 from SA**

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

**Discussion:**

The Chair clarified that one-to-one outgoing LS (e.g. CVD) don’t need to include SA.

Erisson: the outgoing LS from SA3 in slide 5 was a different number.

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

## 3 Reports and Liaisons from other Groups

**S3-240214 LS on service authorization for/to partner MC system**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-239502*

**Discussion:**

Motorola: we need to wait for SA6's reply. They can agree to delete the procedure or keep it. SA3's action depends on what they do.

**Decision:** The document was **replied to in S3-240947**.

**S3-240947 Reply to: LS on service authorization for/to partner MC system**

*Type: LS out For: approval  
 to CT1,SA6, cc SA1  
 Source: Motorola Solutions*

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

**S3-240251 LS on evaluating security aspects for MC services over MC gateway UE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-233821*

**Decision:** The document was **replied to in S3-240828**.

**S3-240651 LS reply to LS on evaluating security aspects for MC services over MC gateway UE**

*Type: LS out For: Approval  
 to SA6, cc CT1  
 Source: Nokia. Nokia Shanghai Bell*

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

**S3-240633 Reply LS on evaluating security aspects for MC services over MC gateway UE**

*Type: LS out For: Approval  
 to SA6, CT1  
 Source: Ericsson, Motorola Solutions*

**Decision:** The document was **revised to S3-240828**.

**S3-240828 Reply LS on evaluating security aspects for MC services over MC gateway UE**

*Type: LS out For: Approval  
 to SA6, cc CT1  
 Source: Ericsson, Motorola Solutions*

(Replaces S3-240633)

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

**S3-240215 LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-235567*

**Discussion:**

Nokia: Answer from SA2 fixes the problem already, no response needed. If there is a need we prefer the reply in 724.

**Decision:** The document was **replied to in S3-240829**.

**S3-240243 Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2401584*

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

**S3-240503 Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF**

*Type: LS out For: Approval  
 to CT3, cc SA2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240829**.

**S3-240829 Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF**

*Type: LS out For: Approval  
 to CT3, cc SA2  
 Source: Huawei, HiSilicon*

(Replaces S3-240503)

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

**S3-240724 Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF**

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

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

**S3-240216 LS on Authorization of NF service consumer for data collection via DCCF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-235594*

**Discussion:**

Nokia preferred Huawei's version.

**Decision:** The document was **replied to in S3-240830**.

**S3-240549 Reply LS on authorization the CCA of the new Data Consumer**

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

**Decision:** The document was **revised to S3-240830**.

**S3-240830 Reply LS on authorization the CCA of the new Data Consumer**

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

(Replaces S3-240549)

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

**S3-240693 Reply LS on Authorization of NF service consumer for data collection via DCCF**

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

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

**S3-240217 Reply LS on CAPIF extensibility**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-235619*

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

**S3-240218 Reply LS on CAPIF extensibility**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-240155*

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

**S3-240228 Response LS to 3GPP CT3 on CAPIF extensibility**

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

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

**S3-240219 Reply LS on Decorated NAI format for 5G-NSWO for SNPN Scenarios**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-235479*

**Discussion:**

Ericsson: no need to reply.

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

**S3-240787 Reply LS to reply LS on Decorated NAI format for 5G-NSWO for SNPN Scenarios**

*Type: LS out For: Approval  
 to CT4  
 Source: Xiaomi Communications*

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

**S3-240220 LS on clarification on home network triggered re-authentication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-235577*

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

**S3-240354 LS reply on clarification on home network triggered re-authentication**

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

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

**S3-240533 Reply LS to CT4 on home network triggered re-authentication**

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

**Decision:** The document was **revised to S3-240831**.

**S3-240831 Reply LS to CT4 on home network triggered re-authentication**

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

(Replaces S3-240533)

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

**S3-240783 Reply LS on clarification on home network triggered re-authentication**

*Type: LS out For: Approval  
 to CT4  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-240459 CR on the failure cases in home network triggered re-authentication**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1910 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-240558 Clarification on alignment of message and failure cause in HONTRA**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1926 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240854**.

**S3-240460 Draft - Reply LS on home network triggered re-authentication**

*Type: LS out For: Approval  
 to CT4  
 Source: ZTE Corporation*

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

**S3-240854 Clarification on alignment of message and failure cause in HONTRA**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1926 rev 1 Cat: F (Rel-19)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240558)

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

**S3-240222 Reply LS on including Source and Destination Interface Type for Indirect DL Data Forwarding Tunnel related N4 requests**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-235681*

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

**S3-240223 Quantum Safe Cryptographic Protocol Inventory**

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

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

**S3-240265 LS regarding the publication of the Post Quantum Cryptography – Guidelines for Telecom Use Cases document in Feb 24**

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

**Discussion:**

Huawei: let's respond with the current status but we really don’t have a timeline for this.

Ericsson: there is a misconception that the asymmetric keys will be impacted by quantum computers.

The Chair suggested to have a conference call on this issue before the next meeting.

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

**S3-240658 LS on Quantum Safe Cryptographic Protocol Inventory**

*Type: LS out For: Approval  
 to ETSI TC CYBER QSC WG (ETSI QSC)  
 Source: Ericsson*

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

**S3-240659 Discussion on Quantum Safe Cryptography Protocol Inventory**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-240692 LS on 3GPP studies for PQC Migration**

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

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

**S3-240224 LS from TSG IMSDCAS to 3GPP SA3 on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply**

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

**Decision:** The document was **replied to in S3-240832**.

**S3-240557 Reply LS on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply**

*Type: LS out For: Approval  
 to GSMA IMSDCAS, cc SA4  
 Source: Huawei, HiSilicon*

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

**S3-240567 Reply LS to GSMATSG IMSDCAS**

*Type: LS out For: (not specified)  
 to GSMA TSG IMSDCAS, cc SA4  
 Source: Apple*

**Decision:** The document was **revised to S3-240832**.

**S3-240832 Reply LS to GSMATSG IMSDCAS**

*Type: LS out For: -  
 to GSMA TSG IMSDCAS, cc SA4  
 Source: Apple*

(Replaces S3-240567)

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

**S3-240714 Reply LS on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply**

*Type: LS out For: Approval  
 to GSMA TSG IMSDCAS, cc SA4  
 Source: China Mobile*

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

**S3-240255 LS from NG to 3GPP SA3-LI on Lawful Interception of IMS Data Channel**

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

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

**S3-240226 Comments from ETSI TC CYBER on GSMA Solutions for Monitoring of Encrypted 5GS Signaling Traffic**

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

**Discussion:**

The Chair commented that this was not an issue for SA3. He suggested to host a conference call to clairify this to all parties involved (GSMA, SA5, TC CYBER) and that SA3 would not take leadership of this activity.

Ericsson: SA5 could take the lead but they would need support from SA3.

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

**S3-240249 Reply LS to LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-238140*

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

**S3-240253 Reply LS to GSMA on Monitoring of Encrypted 5GS Signalling Traffic**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-231668*

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

**S3-240401 Reply LS to 3GPP TSG SA on Monitoring of Encrypted 5GS Signalling Traffic**

*Type: LS out For: Approval  
 to 3GPP TSG SA  
 Source: Ericsson*

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

**S3-240402 5G SBA encrypted signaling monitoring in 3GPP**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-240227 LSout on ""Certificate Management""**

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

**Discussion:**

Nokia: little to do with what we are doing in 3GPP. Mostly out of scope. We prefer NTT-Docomo's answer. Huawei also preferred this reply.

CableLabs also agreed with NTT-Docomo's reply.

**Decision:** The document was **replied to in S3-240833**.

**S3-240400 Reply LS to ETSI ISG NFV on Certificate Management**

*Type: LS out For: Approval  
 to ETSI ISG NFV  
 Source: Ericsson*

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

**S3-240480 Draft - Reply LS on Certificate Management**

*Type: LS out For: Approval  
 to ETSI NFV, cc O-RAN WG11, ZSM  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S3-240833**.

**S3-240833 Reply LS on Certificate Management**

*Type: LS out For: Approval  
 to ETSI NFV, cc O-RAN WG11, ETSI ISG ZSM  
 Source: NTT DOCOMO*

(Replaces S3-240480)

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

**S3-240229 LS to 3GPP SA3 re Definition of Term ‘Network Product Class’**

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

**Decision:** The document was **replied to in S3-240839**.

**S3-240308 draft Reply LS on the Term definition Network Product Class**

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

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

**S3-240513 Reply LS to GSMA on defintion of network product class**

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

**Decision:** The document was **revised to S3-240839**.

**S3-240839 Reply LS to GSMA on defintion of network product class**

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

(Replaces S3-240513)

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

**S3-240230 LS reply on LS on MSISDN exposure to trusted AF**

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

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

**S3-240235 LS on MSISDN exposure to trusted AF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2311893*

**Decision:** The document was **replied to in S3-240834**.

**S3-240245 LS on limited MSISDN exposure**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2401649*

**Decision:** The document was **replied to in S3-240834**.

**S3-240568 Reply LS to SA2 on MSISDN exposure**

*Type: LS out For: (not specified)  
 to SA2, cc SA6  
 Source: Apple*

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

**S3-240631 Reply LS on MSISDN exposure**

*Type: LS out For: Approval  
 to SA2, GSMA OPG, cc SA6  
 Source: Ericsson, Verizon*

**Decision:** The document was **revised to S3-240834**.

**S3-240834 Reply LS on MSISDN exposure**

*Type: LS out For: Approval  
 to SA2,SA, cc SA6  
 Source: Ericsson, Verizon*

(Replaces S3-240631)

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

**S3-240231 Reply LS on the user consent for trace reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-237964*

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

**S3-240242 Reply LS on the user consent for trace reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2401578*

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

**S3-240290 Reply LS on the user consent for trace reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-241084*

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

**S3-240232 Support for MCE ID**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-238003*

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

**S3-240233 Reply LS on Clarification on Removal of the Indicator of UUAA result from AMF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2309697*

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

**S3-240717 Reply LS for SA2-2309697 on Removal of the uavAuthenticated IE from Create SM Context Request**

*Type: LS out For: Approval  
 to SA2, cc CT4  
 Source: China Mobile*

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

**S3-240258 LS on Removal of the uavAuthenticated IE from Create SM Context Request**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-230790*

**Decision:** The document was **replied to in S3-240835**.

**S3-240430 reply to CT4 on removal of uavAuthenticated IE**

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

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

**S3-240770 Response LS to C4-230790**

*Type: LS out For: Approval  
 to CT4, cc SA2, CT1  
 Source: Lenovo*

**Decision:** The document was **revised to S3-240835**.

**S3-240835 Response LS to C4-230790**

*Type: LS out For: Approval  
 to CT4, cc SA2, CT1  
 Source: Lenovo*

(Replaces S3-240770)

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

**S3-240237 Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2313777*

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

**S3-240239 Reply LS on L2ID and User Info for L2 based U2U**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2313796*

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

**S3-240240 Reply LS on Trigger for secure user plane establishment via user plane**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2313809*

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

**S3-240241 LS to RAN2/CT WGs on RAN&CT alignment issues**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2313889*

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

**S3-240244 Reply LS on uniqueness of ProSe U2N RSC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2401587*

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

**S3-240247 Reply LS on MDT for NPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-238101*

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

**S3-240248 Reply LS on user consent for SON/MDT for NB-IoT UEs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-238102*

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

**S3-240250 LS on clarifications regarding RNAA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-233770*

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

**S3-240252 SAGE-23-02 Resynchronisation protection f5\*\* for MILENAGE-128 and Tuak.**

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

**Discussion:**

Ericsson had a WID for the new specification fir the current meeting.

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

**S3-240257 LS on AKMA service restrictions in Rel-17**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-232563*

**Discussion:**

Nokia: clarify to operators if roaming for AKMA is supported in Rel-17.

Ericsson: LI implications for this solution (blocking roaming services for Rel-17)? It was clarified that this approach was supported by SA3-LI.

China Mobile: fix it in Rel-18, not Rel-17.

**Decision:** The document was **replied to in S3-241042**.

**S3-240706 Reply LS on AKMA service restrictions**

*Type: LS out For: Approval  
 to CT3, cc SA2  
 Source: China Mobile*

**Decision:** The document was **revised to S3-240837**.

**S3-240837 Reply LS on AKMA service restrictions**

*Type: LS out For: Approval  
 to CT3, cc SA2,SA3-LI  
 Source: China Mobile*

(Replaces S3-240706)

**Decision:** The document was **revised to S3-241042**.

**S3-241042 Reply LS on AKMA service restrictions**

*Type: LS out For: Approval  
 to CT3, cc SA2,SA3-LI  
 Source: China Mobile*

(Replaces S3-240837)

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

**S3-240707 Reply LS on LI for AKMA in roaming**

*Type: LS out For: Approval  
 to SA3-LI, cc CT3, GSMA FASG  
 Source: China Mobile*

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

**S3-240261 Non-Support of Ciphering Algorithm GEA2**

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

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

**S3-240254 LS on Prohibition of GEA1 & GEA2 Support in all releases**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-231782*

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

**S3-240262 LIAISON STATEMENT ON AEAD mode of ZUC-256 Algorithm**

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

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

**S3-240484 LS on AEAD mode of ZUC-256 algorithm**

*Type: LS out For: Approval  
 to ETSI SAGE, cc CCSA TC5WG5  
 Source: Huawei, HiSilicon, CATT, China Mobile*

**Decision:** The document was **revised to S3-240838**.

**S3-240838 LS on AEAD mode of ZUC-256 algorithm**

*Type: LS out For: Approval  
 to ETSI SAGE, cc CCSA TC5WG5  
 Source: Huawei, HiSilicon, CATT, China Mobile*

(Replaces S3-240484)

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

**S3-240485 Disucssion paper on AEAD mode of ZUC-256 algorithm**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon, CATT, China Mobile*

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

**S3-240263 LS reply to GSMA NG/UPG on Lawful Interception of IMS Data Channel**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i240070*

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

**S3-240264 LS on AKMA service restrictions in roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i240084*

**Decision:** The document was **replied to in S3-241043**.

**S3-240366 LS on AKMA service restrictions in roaming**

*Type: LS out For: Approval  
 to SA3-LI,CT3  
 Source: NDRE*

**Abstract:**

SA3 thanks SA3-LI for its LS on AKMA service restrictions in roaming to comply with LI requirements. The necessary stage 2 modifications in TS 33.535 to control if AKMA is turned on or off in roaming are implemented in the attached CR S3-240365.

**Decision:** The document was **revised to S3-240996**.

**S3-240996 LS on AKMA service restrictions in roaming**

*Type: LS out For: Approval  
 to SA3-LI,CT3  
 Source: NDRE*

(Replaces S3-240366)

**Decision:** The document was **revised to S3-241043**.

**S3-241043 LS on AKMA service restrictions in roaming**

*Type: LS out For: Approval  
 to SA3-LI,CT3  
 Source: NDRE*

(Replaces S3-240996)

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

**S3-240453 Draft - Reply LS on AKMA service restrictions**

*Type: LS out For: Approval  
 to CT3, cc SA2  
 Source: ZTE Corporation*

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

**S3-240266 Reply to LS on potential collaboration between 3GPP SA5 and ETSI SAI TC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-241079*

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

**S3-240267 Reply to LS on 3GPP work on energy efficiency**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-240517*

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

**S3-240289 Reply LS on Support for MCE ID**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-240021*

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

**S3-240295 TCG progress - report from TCG rapporteur**

*Type: report For: Information  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution provides a brief incremental summary of the progress in TCG Working Groups as of February 2024.

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

**S3-240377 Reply LS - Update on SA3 initial review of AKA security concerns presented in the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond**

*Type: LS out For: Approval  
 to ITU-T Study Group 17  
 Source: U.S. National Security Agency*

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

**S3-240378 Reply LS Regarding AKA Protocols**

*Type: discussion For: Discussion  
 Source: U.S. National Security Agency*

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

**S3-240760 Reply LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond**

*Type: LS out For: Approval  
 to ITU-T SG17  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240840**.

**S3-240840 Reply LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond**

*Type: LS out For: Approval  
 to ITU-T SG17  
 Source: Ericsson*

(Replaces S3-240760)

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

**S3-240393 Draft Reply LS on Ranging service exposure security and privacy check**

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

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

**S3-240564 Draft reply LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS out For: Approval  
 to SA2, cc CT1, RAN2  
 Source: OPPO*

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

**S3-240999 LS on AAD modes**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: NTT-Docomo*

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

## 4 Work areas

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

#### 4.1.1 Security Assurance

**S3-240287 Presentation of Specification to TSG: TS 33.528, Version 1.0.0**

*Type: TS or TR cover For: Approval  
 33.528 v0.2.0  
 Source: BSI (DE)*

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

**S3-240302 GSMA review - Test Case on No Default Content**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0178 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, BSI*

**Discussion:**

MITRE had issues with the "only explicitly needed"in the expected results, but Nokia commented that this was wording used in GSMA.

It was agreed to treat 302 -307 in a call with GSMA to clarify that their iinput was correctly inserted.

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

**S3-240303 GSMA review - Test Case on No Directory Listings**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0179 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, BSI*

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

**S3-240304 GSM review - Test Case on No Web Server Header Info**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0180 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, BSI*

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

**S3-240305 GSMA review - Test Case on No Web Server Error Pages Info**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0181 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, BSI*

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

**S3-240306 GSMA review - Test Case on No Web Server File Type Mappings**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0182 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240307 Correcting range of values for IEs**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0183 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240331 Annex regarding assets and threats specific to the PCF network product class**

*Type: CR For: Approval  
 33.926 v18.2.0 CR-0086 Cat: B (Rel-19)  
  
 Source: BSI (DE)*

**Abstract:**

According to the work item SCAS\_5G\_PCF and the discussion paper (S3-240015), the PCF is associated with certain threats. However, these threats are not included in TR33.926. This leaves a blind spot on the threat associated with the PCF.

**Decision:** The document was **revised to S3-240649**.

**S3-240350 GSMA - Remove ambiguity from TC 4.4.2**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0184 Cat: F (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-240869**.

**S3-240869 GSMA - Remove ambiguity from TC 4.4.2**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0184 rev 1 Cat: F (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-240350)

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

**S3-240374 Add UDM SCAS test case for checking the authentication verification of a synchronization failure message**

*Type: CR For: Agreement  
 33.514 v18.2.0 CR-0013 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-240870 Add UDM SCAS test case for checking the authentication verification of a synchronization failure message**

*Type: draftCR For: Agreement  
 33.514 v18.2.0  
 Source: BSI (DE)*

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

**S3-240375 Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1904 Cat: C (Rel-19)  
  
 Source: BSI (DE)*

**Abstract:**

The implementation of specific algorithms for the transmission of long-term persistent keys carries the risk of using unverified algorithms that could be vulnerable to attacks. However, the use of the TLS protocol, as defined by TS 33.501 in section 13.1.

**Decision:** The document was **revised to S3-240647**.

**S3-240376 Removal of note in GVNP lifecyle management**

*Type: CR For: Agreement  
 33.527 v18.1.0 CR-0004 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

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

**S3-240381 Clarifications to Robustness and Fuzz test cases**

*Type: CR For: Approval  
 33.117 v18.2.0 CR-0185 Cat: F (Rel-18)  
  
 Source: MITRE Corporation*

**Abstract:**

Provide clarifications on the testing tools, tool configuration, and procedures in Robustness and fuzz testing clauses 4.4.4

**Discussion:**

Keysight: we are not solving any problem here.

In the end it was agreed.

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

**S3-240479 LS on Scope of the UDR API**

*Type: LS out For: Action  
 to CT4  
 Source: BSI (DE)*

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

**S3-240537 Removal of N3IWF annex**

*Type: CR For: Agreement  
 33.926 v17.8.0 CR-0088 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

It was commented the rel-17 draft for N3IWF was never sent to SA by mistake (the cover page had been submitted as type pCR). MCC commented that the cover page could be resubmitted and the draft would be sent to SA and approved in Rel-18. In order to do this China Unicom had to be contacted offline.

The cover page was finally created so it could be sent for approval.

Huawei asked that the structure of the annex was wrong and needed to be fixed.

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

**S3-240538 Removal of incomplete N3IWF annex (mirror)**

*Type: CR For: Agreement  
 33.926 v18.2.0 CR-0089 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240539 Reformulation of verbatim copied requirements**

*Type: CR For: Agreement  
 33.117 v18.2.0 CR-0187 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240540 Resolution of the editor's notes in the SBA tests**

*Type: CR For: Agreement  
 33.117 v17.4.0 CR-0188 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-240541 Resolution of the editor's notes in the SBA tests**

*Type: CR For: Agreement  
 33.117 v18.2.0 CR-0189 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240542 Reformulation of verbatim copied requirements**

*Type: CR For: Agreement  
 33.926 v18.2.0 CR-0090 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240562 Added parameters to NRF discovery authorization**

*Type: CR For: Agreement  
 33.518 v18.0.0 CR-0006 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Discussion:**

MCC commented that a Rel-19 WID was needed to introduce test cases in Rel-19. Huawei commented that they had a WID proposal.

**Decision:** The document was **revised to S3-241001**.

**S3-241001 Added parameters to NRF discovery authorization**

*Type: CR For: Agreement  
 33.518 v18.0.0 CR-0006 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-240562)

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

**S3-240563 Added parameters to NRF discovery authorization threat reference**

*Type: CR For: Agreement  
 33.926 v18.2.0 CR-0091 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

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

**S3-240728 Correct clause references to TS 33.511**

*Type: CR For: (not specified)  
 33.523 v18.1.0 CR-0007 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-240729 Adding the missing Xn-U interface**

*Type: CR For: (not specified)  
 33.523 v18.1.0 CR-0002 rev 1 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-233855)

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

**S3-240775 Add VM traffic isolation security threat to TR 33.927 3GPp virtualized network product classes**

*Type: CR For: Agreement  
 33.927 v18.1.0 CR-0002 Cat: F (Rel-18)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S3-241032**.

**S3-241032 Add VM traffic isolation security threat to TR 33.927 3GPp virtualized network product classes**

*Type: CR For: Agreement  
 33.927 v18.1.0 CR-0002 rev 1 Cat: F (Rel-18)  
  
 Source: China Mobile Com. Corporation*

(Replaces S3-240775)

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

**S3-240825 Adding the missing Xn-U interface**

*Type: CR For: (not specified)  
 33.523 v18.1.0 CR-0008 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Abstract:**

This CR replaces S3-240729, which revised an already agreed SA3 CR. The intention is to resubmit a CR that was missed during implementation.

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

#### 4.1.2 Service Based Architecture

**S3-240648 Clarifications on NRF and NFp checks**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1940 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240661 Consistency Between NF Profile and Certificate**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1946 Cat: F (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom, China Telecom, KDDI*

**Decision:** The document was **revised to S3-240867**.

**S3-240867 Consistency Between NF Profile and Certificate**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1946 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom, China Telecom, KDDI*

(Replaces S3-240661)

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

**S3-240662 Clarification of input parameter verification for token-based authorization**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1947 Cat: F (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom, KDDI*

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

**S3-240660 Terminology correction**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1945 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240644 Clarifying N32f and N32c correlation need**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1939 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

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

**S3-240505 Discussion about UE-to-Network relay discovery security material identification**

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

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

**S3-240506 Update to the identification of U2NW discovery security materials**

*Type: CR For: Agreement  
 33.503 v17.6.0 CR-0160 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240862**.

**S3-240862 Update to the identification of U2NW discovery security materials**

*Type: CR For: Agreement  
 33.503 v17.6.0 CR-0160 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240506)

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

**S3-240511 Update to the identification of U2NW discovery security materials**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0163 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240863**.

**S3-240863 Update to the identification of U2NW discovery security materials**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0163 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240511)

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

**S3-240610 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.6.0 CR-0166 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240611 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0167 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240388 Remove circular reference in U2U Relay discovery Model A**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0159 Cat: F (Rel-18)  
  
 Source: Interdigital*

**Decision:** The document was **revised to S3-240864**.

**S3-240864 Remove circular reference in U2U Relay discovery Model A**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0159 rev 1 Cat: F (Rel-18)  
  
 Source: Interdigital*

(Replaces S3-240388)

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

**S3-240779 Clarification on the collection of direct discovery set in the 5G ProSe UE-to-UE Relay Discovery with Model A**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0170 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-240341 Clause 6.6.3.2 – Security procedures without network assitance check**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0158 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm, Ericsson didn’t agree with this.

Philips commented that they would take it to CT1.

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

**S3-240733 Rel18 ProSe – Update on security of PC5 communication for U2U Relay without network assistance**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0169 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-240607 CR to TS33.503 Update U2U Relay Discovery procedure with Model A**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0164 Cat: F (Rel-18)  
  
 Source: CATT*

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

**S3-240609 CR to TS33.503 Update U2U Relay Discovery procedure with Model B**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0165 Cat: F (Rel-18)  
  
 Source: CATT*

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

**S3-240732 Rel18 ProSe – Clarification on direct discovery set protection in U2U relay discovery with model A**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0168 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Discussion:**

Philips supported this, but Interdigital didn’t.

**Decision:** The document was **revised to S3-240994**.

**S3-240994 Rel18 ProSe – Clarification on direct discovery set protection in U2U relay discovery with model A**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0168 rev 1 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-240732)

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

**S3-240340 Clause 6.1.3.2.3 - Clarification related to the direct discovery set**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0157 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm: UE to UE relay discovery clause should have this content.

**Decision:** The document was **revised to S3-241033**.

**S3-241033 Clause 6.1.3.2.3 - Clarification related to the direct discovery set**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0157 rev 1 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

(Replaces S3-240340)

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

**S3-240509 Clarification on multiple relay discovery security materials**

*Type: CR For: Agreement  
 33.503 v17.6.0 CR-0161 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-240510 Clarification on multiple relay discovery security materials**

*Type: CR For: Agreement  
 33.503 v18.1.0 CR-0162 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240339 5G ProSe UE-to-UE relay communication security**

*Type: CR For: Approval  
 33.503 v18.1.0 CR-0156 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm didn’t agree with this.

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

#### 4.1.4 Mission Critical

**S3-240301 [33.180] MC gateway authentication and authorization**

*Type: CR For: Agreement  
 33.180 v18.0.0 CR-0210 Cat: B (Rel-18)  
  
 Source: Motorola Solutions Germany*

**Abstract:**

Authentication and authorization clarifications for MC gateway devices.

**Decision:** The document was **revised to S3-240861**.

**S3-240861 [33.180] MC gateway authentication and authorization**

*Type: CR For: Agreement  
 33.180 v18.0.0 CR-0210 rev 1 Cat: B (Rel-18)  
  
 Source: Motorola Solutions Germany*

(Replaces S3-240301)

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

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

**S3-240356 AKMA service mid session disabling in roaming**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0198 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, NDRE*

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

**S3-240365 AKMA service restriction in roaming**

*Type: CR For: Approval  
 33.535 v18.2.0 CR-0199 Cat: B (Rel-18)  
  
 Source: NDRE, Ministère Economie et Finances, National Technical Assistance, Nokia, OTD\_US, Security Service*

**Abstract:**

An AKMA service restriction mechanism to contol AKMA use in roaming is introduced.

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

**S3-240454 CR on AKMA service restrictions**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0204 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-240455 Discussion on AKMA service restrictions**

*Type: discussion For: Discussion  
 33.535 v..  
 Source: ZTE Corporation*

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

**S3-240708 AKMA roaming policy control in AAnF**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0207 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S3-240915**.

**S3-240915 AKMA roaming policy control in AAnF**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0207 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S3-240708)

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

**S3-240757 Proposal for a way forward on AKMA restrictions**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-240448 KAF re-keying after expiration triggered by AF**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0200 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-240449 KAF re-keying after expiration triggered by AAnF**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0201 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-240995**.

**S3-240995 KAF re-keying after expiration triggered by AAnF**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0201 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S3-240449)

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

**S3-240450 Discussion on KAF re-keying after expiration**

*Type: discussion For: Discussion  
 33.535 v..  
 Source: ZTE Corporation*

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

**S3-240451 Adding UDM additional function to TS 33.535 in R18**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0202 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-240452 Adding UDM additional function to TS 33.535 in R17**

*Type: CR For: Agreement  
 33.535 v17.10.0 CR-0203 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

No mirror because the content is merged in tdoc 451.

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

**S3-240789 Routing indicator update issue in the A-KID construction procedure Release 17**

*Type: CR For: Approval  
 33.535 v17.10.0 CR-0208 Cat: F (Rel-17)  
  
 Source: Xiaomi Communications*

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

**S3-240790 Routing indicator update issue in the A-KID construction procedure Release 18 (mirror)**

*Type: CR For: Approval  
 33.535 v18.2.0 CR-0209 Cat: A (Rel-18)  
  
 Source: Xiaomi*

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

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

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

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

#### 4.1.9 Security Aspects of eNPN

**S3-240291 Resolution of EN concerning the content of AN-parameters.**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1899 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE*

**Decision:** The document was **revised to S3-240899**.

**S3-240899 Resolution of EN concerning the content of AN-parameters.**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1899 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE*

(Replaces S3-240291)

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

**S3-240627 Corrections to NSWO with CH AAA**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1938 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240916**.

**S3-240916 Corrections to NSWO with CH AAA**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1938 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240627)

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

**S3-240653 Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder**

*Type: CR For: Approval  
 33.501 v17.12.0 CR-1941 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240900**.

**S3-240900 Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder**

*Type: CR For: Approval  
 33.501 v17.12.0 CR-1941 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240653)

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

**S3-240654 Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1942 Cat: D (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240901**.

**S3-240901 Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1942 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240654)

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

**S3-240655 Replacing SUPI with SUCI in I.10.2.2**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1943 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240917**.

**S3-240917 Replacing SUPI with SUCI in I.10.2.2**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1943 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240655)

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

**S3-240656 Replacing SUPI with SUCI in I.10.3.2**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1944 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240918**.

**S3-240918 Replacing SUPI with SUCI in I.10.3.2**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1944 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240656)

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

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

**S3-240584 Discussion paper on DNS security**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240632 DNS security aspects**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-240238 Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2313793*

**Decision:** The document was **replied to in S3-240906**.

**S3-240547 Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH)**

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

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

**S3-240587 LS reply on DNS over TLS (DoT)**

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

**Decision:** The document was **revised to S3-240906**.

**S3-240906 LS reply on DNS over TLS (DoT)**

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

(Replaces S3-240587)

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

**S3-240585 Revert the Annex P of TS 33.501 to Informative**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1930 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

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

**S3-240586 Revert Annex P of 33.501 to Informative Rel18**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1931 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

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

**S3-240588 Details of the DNS security mechanism in EDGE computing (non-roaming)**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1932 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240907**.

**S3-240907 Details of the DNS security mechanism in EDGE computing (non-roaming)**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1932 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240588)

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

**S3-240589 Details of the DNS security mechanism in EDGE computing (non-roaming)**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1933 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240908**.

**S3-240908 Details of the DNS security mechanism in EDGE computing (non-roaming)**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1933 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240589)

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

**S3-240590 Details of the DNS security mechanism in EDGE computing (roaming)**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1934 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240909**.

**S3-240909 Details of the DNS security mechanism in EDGE computing (roaming)**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1934 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240590)

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

#### 4.1.11 Security aspects of Uncrewed Aerial Systems

**S3-240234 Clarification related to reliable location**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2309698*

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

**S3-240638 Reply LS on Clarification related to reliable location**

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

**Decision:** The document was **revised to S3-241000**.

**S3-241000 Reply LS on Clarification related to reliable location**

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

(Replaces S3-240638)

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

**S3-240351 Reply LS on Clarification related to reliable location**

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

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

**S3-240481 Reply LS on Clarification related to reliable location**

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

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

**S3-240482 Clarification related to reliable location**

*Type: CR For: Agreement  
 33.256 v17.5.0 CR-0044 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-240483 Clarification related to reliable location**

*Type: CR For: Agreement  
 33.256 v18.1.0 CR-0045 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240429 Clarification to direct C2 security for unicast**

*Type: CR For: Agreement  
 33.256 v18.1.0 CR-0041 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Qualcomm: how to obtain the keys should be left to the UAS community. I don’t agree with the note.

Interdigital: fine with the note, keep the last sentence.

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

**S3-240431 Align UUAA with TS23.256 due to removal of uavAuthenticated IE**

*Type: CR For: Agreement  
 33.256 v17.5.0 CR-0042 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-240432 Align UUAA with TS23.256 due to removal of uavAuthenticated IE**

*Type: CR For: Agreement  
 33.256 v18.1.0 CR-0043 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240637 Rel18-Clarification on reliable location information**

*Type: CR For: Agreement  
 33.256 v18.1.0 CR-0046 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240767 Cleans up AMF and SMF relation for UUAA**

*Type: CR For: Approval  
 33.256 v18.1.0 CR-0047 Cat: F (Rel-18)  
  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241002**.

**S3-241002 Cleans up AMF and SMF relation for UUAA**

*Type: CR For: Approval  
 33.256 v18.1.0 CR-0047 rev 1 Cat: A (Rel-18)  
  
 Source: Lenovo*

(Replaces S3-240767)

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

**S3-240768 Cleans up AMF and SMF relation for UUAA**

*Type: CR For: Approval  
 33.256 v17.5.0 CR-0048 Cat: F (Rel-17)  
  
 Source: Lenovo*

**Decision:** The document was **revised to S3-241003**.

**S3-241003 Cleans up AMF and SMF relation for UUAA**

*Type: CR For: Approval  
 33.256 v17.5.0 CR-0048 rev 1 Cat: F (Rel-17)  
  
 Source: Lenovo*

(Replaces S3-240768)

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

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

**S3-240796 Discussion on UE privacy check for Ranging/SL Positioning service exposure**

*Type: discussion For: Endorsement  
 33.533 v..  
 Source: Xiaomi Technology*

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

**S3-240342 Update of local privacy check in clause 6.3.7 for Network-assisted procedure**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0034 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Xiaomi didn’t agree with the change. Ericsson wasn’t convinced either.

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

**S3-240345 Update of local privacy check in clause 6.3.7 for server UE request**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0037 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

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

**S3-240797 Assumption on the privacy of Located UE**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0060 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

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

**S3-240487 Clarification on the procedure for authorization of AF/5GC NF/LCS Client**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0043 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240752 Clarification on the procedure of UE privacy check**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0056 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240948**.

**S3-240948 Clarification on the procedure of UE privacy check**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0056 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240752)

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

**S3-240778 Clarification on the authorization for UEs belonging to different PLMNs**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0059 Cat: F (Rel-18)  
  
 Source: Beijing Xiaomi Mobile Software*

**Discussion:**

Ericsson: GMLC and AMF interface is not defined in SA2.

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

**S3-240488 Location\_PrivacyCheck service from GMLC**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0044 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240751 Clarification on the UE Ranging/SL Positioning privacy profile**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0055 Cat: B (Rel-18)  
  
 Source: Ericsson, Xiaomi*

**Discussion:**

It was needed to clarify how far SA2 has progressed on the subject and whether SA3 could define this.

**Decision:** The document was **revised to S3-240949**.

**S3-240949 Clarification on the UE Ranging/SL Positioning privacy profile**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0055 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson, Xiaomi*

(Replaces S3-240751)

**Discussion:**

Sony objected to this CR: We would make the feature totally inefficient and unsecure for most Ues.

The Chair asked for a show of hands:

Companies supportign the contribution:

Xiaomi, Huawei, China Telecom,Ericsson,ZTE,CATT,China Unicom, OPPO, Qualcomm, Vivo.

Companies not supporting:

Sony, Phillips, BSI, BT,OTE.

Sony: if this is not approved, we would use an over the top solution instead.

The Chair advised to take this CR to the Plenary as company contribution if companies preferred it.

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

**S3-240346 Update of privacy check for exposure of location of Located UE by LMF**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0038 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Ericsson didn’t support this contribution.

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

**S3-240344 Clarification of local privacy check in clause 6.3.7**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0036 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm didn’t support this.

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

**S3-240486 Reply LS on Ranging/SL Positioning service exposure security and privacy check**

*Type: LS out For: Approval  
 to SA2, cc SA1, SA6  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240836**.

**S3-240836 Reply LS on Ranging/SL Positioning service exposure security and privacy check**

*Type: LS out For: Approval  
 to SA2, cc SA1, SA6  
 Source: Huawei, HiSilicon*

(Replaces S3-240486)

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

**S3-240735 Draft Reply LS on Ranging service exposure security and privacy check**

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

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

**S3-240800 [Draft] Reply LS on Ranging/SL Positioning service exposure security and privacy check**

*Type: LS out For: Approval  
 to SA2, cc SA1, SA6  
 Source: Xiaomi Technology*

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

**S3-240328 Alignment of service exposure via user plane authorization.**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0033 Cat: F (Rel-18)  
  
 Source: Sony, Philips International B.V.*

**Abstract:**

This CR provides a new procedure to align with SA2 and the procedure reuses the same authorization method as for AF, 5G NF or LCS client authorization

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

**S3-240726 Add authorization procedure for Ranging/SL positioning service exposure through 5GC user plane**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0050 Cat: B (Rel-18)  
  
 Source: OPPO*

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

**S3-240801 Authorization for service exposure to Client UE via 5GC UP**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0063 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

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

**S3-240496 Reply LS on security aspects for Ranging/Sidelink Positioning**

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

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

**S3-240739 Reply LS on security aspects for Ranging or Sidelink Positioning**

*Type: LS out For: Approval  
 to SA2, cc CT1, RAN2  
 Source: OPPO*

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

**S3-240738 Discussion on privacy verification for ranging or SL positioning service exposure through PC5**

*Type: discussion For: Discussion  
 33.533 v..  
 Source: OPPO*

**Discussion:**

Xiaomi, Ericsson,Sony didn’t support proposal 3.

Philips supported all proposals.

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

**S3-240741 Add procedure of UE privacy verification for Network based operation of service exposure through PC5 link**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0052 Cat: B (Rel-18)  
  
 Source: OPPO*

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

**S3-240799 UE privacy check for exposure to Client UE via PC5**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0062 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

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

**S3-240343 Update of local privacy check in clause 6.3.7 for client UE exposure**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0035 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

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

**S3-240497 Update to the authorization procedure for Ranging/SL positioning**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0046 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240753 UE Privacy handling for service exposure through PC5**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0057 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240929**.

**S3-240929 UE Privacy handling for service exposure through PC5**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0057 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240753)

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

**S3-240742 Update procedure of UE privacy verification for UE-only operation of service exposure through PC5 link**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0053 Cat: F (Rel-18)  
  
 Source: OPPO*

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

**S3-240798 Privacy Check of n UEs for UE-only Operation**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0061 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

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

**S3-240734 Update on UE role authorization during discovery**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0051 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-241034**.

**S3-241034 Update on UE role authorization during discovery**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0051 rev 1 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-240734)

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

**S3-240750 Correction on authorization for Ranging and Sidelink Positioning**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0054 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240821 SL Positioning UE Privacy and Authorization**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0039 rev 1 Cat: C (Rel-18)  
  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-240384)

**Discussion:**

Xiaomi: this is introducing new requirements, too late at this stage.

The Chair asked if there was a new solution covering this.

Interdigital: already done in the spec even without the requirement.

Huawei didn’t agree with this.

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

**S3-240802 PC5 security policy for Ranging/SL positioning service**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0064 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

**Discussion:**

Ericsson: root keys out of scope of 3GPP.

Qualcomm didn’t agree with second and third change.

**Decision:** The document was **revised to S3-240865**.

**S3-240865 PC5 security policy for Ranging/SL positioning service**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0064 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

(Replaces S3-240802)

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

**S3-240803 Adding notes for Ranging/SL positioning broadcast/groupcast communication**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0065 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

**Discussion:**

Qualcomm: broadcast and groupcast communication is not supported in RAN2.

**Decision:** The document was **revised to S3-241035**.

**S3-241035 Adding notes for Ranging/SL positioning broadcast/groupcast communication**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0065 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

(Replaces S3-240803)

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

**S3-240456 Editorial correction to the clause 6.3.5**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0041 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-240457 Add the NL6 interface to the clause 5.3**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0042 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-240494 Removing the edito’s note to clause 4.2.2 in TS 33.533**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0045 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240755 Editorial correction in clause 6.3.5 of TS 33.533**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0058 Cat: D (Rel-18)  
  
 Source: OPPO*

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

**S3-240804 Clean up of TS 33.533**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0066 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-240866**.

**S3-240866 Clean up of TS 33.533**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0066 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi Technology*

(Replaces S3-240804)

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

**S3-240236 LS on Ranging/SL Positioning service exposure security and privacy check**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2313776*

**Decision:** The document was **replied to in S3-240836**.

**S3-240246 Reply LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2401651*

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

**S3-240634 Reply LS on Ranging/SL Positioning service exposure security and privacy check**

*Type: LS out For: Approval  
 to SA2, cc SA1, SA6  
 Source: Ericsson*

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

**S3-240384 SL Positioning UE Privacy and Authorization**

*Type: CR For: Agreement  
 33.533 v18.1.0 CR-0039 Cat: C (Rel-18)  
  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

SL Positioning UE privacy protection

**Decision:** The document was **revised to S3-240821**.

**S3-240394 Add authorization procedure for Ranging service exposure through 5GC user plane**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0040 Cat: B (Rel-18)  
  
 Source: OPPO*

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

**S3-240561 Discussion on privacy verification for Ranging/SL positioning service exposure through PC5**

*Type: discussion For: Discussion  
 33.533 v..  
 Source: OPPO*

**Abstract:**

This paper discusses privacy verification for ranging/SL positioning service exposure through PC5.

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

**S3-240566 Add procedure of UE privacy verification for Network based operation of service exposure through PC5 link**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0047 Cat: B (Rel-18)  
  
 Source: OPPO*

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

**S3-240593 Update procedure of UE privacy verification for UE-only operation of service exposure through PC5 link**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0048 Cat: F (Rel-18)  
  
 Source: OPPO*

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

**S3-240599 Editorial correction in clause 6.3.5 of TS 33.533**

*Type: CR For: Approval  
 33.533 v18.1.0 CR-0049 Cat: D (Rel-18)  
  
 Source: OPPO*

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

#### 4.1.13 Security Aspects of eNA

**S3-240579 Update of figure in clause X.10 of TS 33.501 (eNA)**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1929 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240604 Update flow of Nnwdaf\_MLModelProvision**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1936 Cat: B (Rel-18)  
  
 Source: Intel Technology Poland SP Zoo*

**Decision:** The document was **revised to S3-240910**.

**S3-240910 Update flow of Nnwdaf\_MLModelProvision**

*Type: CR For: -  
 33.501 v18.4.0 CR-1936 rev 1 Cat: F (Rel-18)  
  
 Source: Intel Technology Poland SP Zoo*

(Replaces S3-240604)

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

**S3-240477 MTLF Authorization of AIML model storage and sharing**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1917 Cat: F (Rel-18)  
  
 Source: vivo*

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

**S3-240498 Update procedure for secured and authorized AIML model sharing**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1918 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240911**.

**S3-240911 Update procedure for secured and authorized AIML model sharing**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1918 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240498)

**Discussion:**

Ericsson provided a revision that was not agreed. They objected to this solution. It was commented that if there was no solution the note in 689 had to be agreed for Rel-18.

Huawei asked to minute: The use case in SA2 will not be addressed by SA3 in Rel-18.

Ericsson asked to minute: we objected due to the security problems in the solution. We cannot agree with this.

Ericsson commented that no consensus was reached.

Intel: only one company is objecting, this can be a working agreement.

NTT-Docomo: let's add the leftovers in the study in 969 and let the discussions on the SA2 use case for Plenary.

Ericsson added: Several companies cannot agree on a simple solution that solves the security issue, but instead try to add additional procedures that have not been studied.

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

**S3-240578 Authorization of Model Sharing with MTLF**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1928 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240689 Clarification for Model Sharing with MTLF**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1961 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Huawei objected to the added note.The LS sent to SA2 promised to provide a solution in Rel-18 to address their concern.

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

**S3-240502 Security of Analytics transfer between NWDAFs**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1922 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240500 Remove the EN in the X.9 Authorization of selection of participant NWDAF instances in the Federated Learning group**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1920 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240602 Updates to Federated Learning**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1935 Cat: B (Rel-18)  
  
 Source: Intel*

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

**S3-240501 Correct procedure for authorization of selection of participant NWDAF instances in the Federated Learning group**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1921 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240913**.

**S3-240913 Correct procedure for authorization of selection of participant NWDAF instances in the Federated Learning group**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1921 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240501)

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

**S3-240577 Authorization of NWDAF MTLF to request FL process on behalf of AnLF**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1927 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240499 Editorial change on procedure for protection of analytics exchange in roaming case**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1919 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240914**.

**S3-240914 Editorial change on procedure for protection of analytics exchange in roaming case**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1919 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240499)

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

**S3-240912 LS on Issues related Analytics context transfer between AnLF(s)**

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

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

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

**S3-240208 Elaborated LS reply to S3-234350 on Roaming Hub requirements as applicable to the Modified PRINS solution**

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

**Decision:** The document was **replied to in S3-240887**.

**S3-240212 LS to 3GPP on data plane control by roaming hubs**

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

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

**S3-240555 Reply LS on Roaming Hub requirements as applicable to the Modified PRINS solution**

*Type: LS out For: Approval  
 to SA, cc SA1, SA5, CT, CT4  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240887**.

**S3-240887 Reply LS on Roaming Hub requirements as applicable to the Modified PRINS solution**

*Type: LS out For: Approval  
 to SA, cc SA1, SA5, CT, CT4  
 Source: Huawei, HiSilicon*

(Replaces S3-240555)

**Discussion:**

NTT-Docomo: this is consolidating replies to GSMA, no specific action to SA because they know what to do.

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

**S3-240209 Elaborated LS reply to S3-234350 on IPX Service Hub requirements as applicable to the Modified PRINS solution**

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

**Decision:** The document was **replied to in S3-240888**.

**S3-240556 Reply LS on IPX Service Hub requirements as applicable to the Modified PRINS solution**

*Type: LS out For: Approval  
 to SA, cc SA1, SA2, CT, CT4  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240888**.

**S3-240888 Reply LS on IPX Service Hub requirements as applicable to the Modified PRINS solution**

*Type: LS out For: Approval  
 to SA, cc SA1, SA2, CT, CT4  
 Source: Huawei, HiSilicon*

(Replaces S3-240556)

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

**S3-240211 LS on nested JSON structures and reply to LS S3-235067**

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

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

**S3-240213 LS to 3GPP on PRINS security profiles**

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

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

**S3-240737 Security profiles for PRINS**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1889 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234865)

**Decision:** The document was **revised to S3-240889**.

**S3-240889 Security profiles for PRINS**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1889 rev 2 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240737)

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

**S3-240313 AI from SA: Mapping modified PRINS CR to previous releases**

*Type: discussion For: Endorsement  
 Source: SA3 Chair*

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

**S3-240544 Discussion on how to back track the 5G roaming related changes to earlier releases**

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

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

**S3-240545 Living document for backtracking 5G Roaming changes - Modification of PRINS to enable Roaming Hubs**

*Type: draftCR For: Approval  
 33.501 v16.17.0  
 Source: Huawei, HiSilicon, Vodafone*

**Discussion:**

Ericsson: this is a non FASMO feature and it is setting up a precedent.

The Chair commented that this decision was not coming from SA3 and SA would decided how far back this would go.

NTT-Docomo commented that SA3 would not take a stand on the CRs. Huawei proposed to endorse the CRs, as it wasn't SA3's decision to go forward but SA's. The decision on whether the CRs would be needed for Rel-16 and Rel-17 should be taken at SA level, not SA3.

**Decision:** The document was **revised to S3-240882**.

**S3-240882 Living document for backtracking 5G Roaming changes - Modification of PRINS to enable Roaming Hubs**

*Type: draftCR For: Approval  
 33.501 v16.17.0  
 Source: Huawei, HiSilicon, Vodafone*

(Replaces S3-240545)

**Discussion:**

Huawei clarified that this draftCR showed the changes that would go to earlier releases.

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

**S3-240546 Placeholder for collecting new changes related to the 5G roaming WID**

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

**Decision:** The document was **revised to S3-240883**.

**S3-240883 Placeholder for collecting new changes related to the 5G roaming WID**

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

(Replaces S3-240546)

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

**S3-240815 Alignments on terminology for roaming intermediaries**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1964 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240890**.

**S3-240890 Alignments on terminology for roaming intermediaries**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1964 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240815)

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

**S3-240551 Modification on the definition of Roaming Hub**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1925 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240891**.

**S3-240891 Modification on the definition of Roaming Hub**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1925 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240551)

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

**S3-240256 LS reply to S3-233786 and S3-234296 on the introduction of the domain ""ipxnetwork.org"" and clarifications of the Outsourced SEPP and Hosted SEPP deployment scenarios**

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

**Decision:** The document was **replied to in S3-240886**.

**S3-240288 LS reply to S3-240256 on the introduction of the domain ""ipxnetwork.org""**

*Type: LS out For: Approval  
 to GSMA 5GMRR  
 Source: BSI (DE)*

**Abstract:**

ipxnetwork.org domain suffix in the context of GSMA-specific scenarios

**Decision:** The document was **revised to S3-240886**.

**S3-240886 LS reply to S3-240256 on the introduction of the domain ""ipxnetwork.org""**

*Type: LS out For: Approval  
 to GSMA 5GMRR  
 Source: BSI (DE)*

(Replaces S3-240288)

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

**S3-240210 LS to 3GPP CT4 on in-path and in-query parameters**

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

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

**S3-240221 Reply LS on N32 Race conditions and recovery**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-235586*

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

**S3-240550 Clarification on the usage of N32-f context ID and N32-f message ID**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1924 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia: do we need this if the same content is already in CT4 specs?

Huawei: This needs to be justified here and then ask CT4 to specify it.

This was taken offline.

**Decision:** The document was **revised to S3-241036**.

**S3-241036 Clarification on the usage of N32-f context ID and N32-f message ID**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1924 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240550)

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

**S3-240884 Backtracking 5G roaming changes**

*Type: CR For: discussion  
 33.501 v16.17.0 CR-1968 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

It was decided to send the CRs attached to an LS to SA. The CRs would be endorsed and the decision whether to backtrack them in Rel-16 and Rel-17 would be taken at SA level.

Huawei would submit the CRs as company contributions to SA.

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

**S3-240885 Backtracking 5G roaming changes**

*Type: CR For: discussion  
 33.501 v17.12.0 CR-1969 Cat: B (Rel-17)  
  
 Source: Huawei*

**Discussion:**

Same comment as tdoc 884.

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

**S3-241037 LS on backtracking 5G roaming changes**

*Type: LS out For: Approval  
 to SA  
 Source: Huawei*

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

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

**S3-240427 Clarification to flow selection for RNAA**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0061 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Xiaomi: just say that we reuse the existing procedures.

**Decision:** The document was **revised to S3-240849**.

**S3-240849 Clarification to flow selection for RNAA**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0061 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240427)

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

**S3-240635 Security Negotiation for RNAA**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0064 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240423 Revocation procedure invoked by resource owner client**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0057 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240424 Revocation procedures invoked by API invoker**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0058 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240695 Revocation procedure for RNAA**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0066 Cat: F (Rel-18)  
  
 Source: Samsung*

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

**S3-240792 Add revocation procedure for RNAA-related tokens**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0068 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-240850**.

**S3-240850 Add revocation procedure for RNAA-related tokens**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0068 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

(Replaces S3-240792)

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

**S3-240791 Update for CAPIF 8**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0067 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-240851**.

**S3-240851 Update for CAPIF 8**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0067 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

(Replaces S3-240791)

**Discussion:**

Reworded to "present document" instead of 3GPP.

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

**S3-240795 Resolve ENs related to API invoker ID mapping**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0071 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Discussion:**

Huawei: this is stage 3 related, not in scope of SA3.We agree with removing the editor's note.

NTT-Docomo agreed with deleting the text but the new text could be made a note. They didn’t agree that this was a stage 3 problem.

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

**S3-240426 Access token profile for Annex C**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0060 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: this is not aligned with what’s defined in stage 3.

**Decision:** The document was **revised to S3-240852**.

**S3-240852 Access token profile for Annex C**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0060 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240426)

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

**S3-240636 Details for RNAA token**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0065 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240625 SNAAPPY - Update to RNAA functional security model description**

*Type: CR For: (not specified)  
 33.122 v18.2.0 CR-0063 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240425 Correction on authentication and authorization for RNAA**

*Type: CR For: Agreement  
 33.122 v18.2.0 CR-0059 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240475 Alignment of 33.122 for RNAA**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0062 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S3-241039**.

**S3-241039 Alignment of 33.122 for RNAA**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0062 rev 1 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO*

(Replaces S3-240475)

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

**S3-240793 Resolve ENs related to token claims**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0069 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-240794 Resolve EN related to authorization request or token request**

*Type: CR For: Approval  
 33.122 v18.2.0 CR-0070 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-240312 Security Enhancement on selective SCG Activation**

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

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

**S3-240311 Updates to Security for Selective SCG Activation**

*Type: draftCR For: (not specified)  
 33.501 v18.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-235100)

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

**S3-240744 SCPAC: FC values**

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

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

**S3-240512 Update the Security for Subsequent CPAC**

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

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

**S3-240694 Updates to Security for Selective SCG Activation**

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

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

**S3-240743 SCPAC: Updates to Security for Selective SCG Activation**

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

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

**S3-240608 Comments on SCG Activation papers**

*Type: discussion For: Endorsement  
 Source: Intel Technology Poland SP Zoo*

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

**S3-240619 Updates to Security for Selective SCG Activation**

*Type: draftCR For: Agreement  
 33.501 v18.4.0  
 Source: Intel Technology Poland SP Zoo*

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

**S3-240746 SCPAC: Updates to Security for Selective SCG Activation**

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

**Decision:** The document was **revised to S3-240841**.

**S3-240841 SCPAC: Updates to Security for Selective SCG Activation**

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

(Replaces S3-240746)

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

**S3-240990 SCPAC: Updates to Security for Selective SCG Activation**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1970 Cat: B (Rel-18)  
  
 Source: Samsung, Ericsson, Huawei, HiSilicon, Apple, Nokia, Nokia Shanghai Bell, Intel*

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

**S3-240745 SCPAC: Releasing prepared SCPAC configurations at handover**

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

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

**S3-240747 SCPAC: Algorithm negotiation**

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

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

**S3-240748 SCPAC: Secondary Node key update for SCPAC**

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

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

**S3-240749 SCPAC: Protection of traffic between UE and SN for SCPAC**

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

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

**S3-240329 Correction of UDM service naming**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1900 Cat: A (Rel-18)  
  
 Source: BSI (DE)*

**Abstract:**

This is a copy of a CR from Gothenburg S3-234191, which was already agreed but did not got fully implemented. The 2nd change was missing in the implementation. No discussion needed. It should automatically be agreed.

**Decision:** The document was **revised to S3-240857**.

**S3-240842 Correction of UDM service naming**

*Type: CR For: -  
 33.501 v17.12.0 CR-1965 Cat: A (Rel-17)  
  
 Source: BSI (DE)*

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

**S3-240857 Correction of UDM service naming**

*Type: CR For: -  
 33.501 v18.4.0 CR-1900 rev 1 Cat: A (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-240329)

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

**S3-240843 Correction of UDM service naming**

*Type: CR For: -  
 33.501 v16.17.0 CR-1966 Cat: A (Rel-16)  
  
 Source: BSI (DE)*

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

**S3-240844 Correction of UDM service naming**

*Type: CR For: -  
 33.501 v15.17.0 CR-1967 Cat: F (Rel-15)  
  
 Source: BSI (DE)*

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

**S3-240352 Discussion paper of UPU implementation gaps**

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

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

**S3-240353 Enhancement in UPU procedure to protect UPU header**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1901 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240355 Editorial Correction**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1902 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240370 Discussion on UDM authentication verification of synchronization failure message**

*Type: discussion For: Discussion  
 Source: BSI (DE)*

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

**S3-240371 Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1903 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-240372 Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure**

*Type: CR For: Agreement  
 33.102 v17.0.0 CR-0284 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-240373 Add UDM threat reference for missing verification of synchronization failure messages.**

*Type: CR For: Agreement  
 33.926 v18.2.0 CR-0087 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

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

**S3-240395 Add missing RFC4122 in References section**

*Type: CR For: Approval  
 33.310 v16.15.0 CR-0190 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240845**.

**S3-240845 Add missing RFC4122 in References section**

*Type: CR For: Approval  
 33.310 v16.15.0 CR-0190 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-240395)

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

**S3-240396 Add missing RFC4122 in References section**

*Type: CR For: Approval  
 33.310 v17.8.0 CR-0191 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240846**.

**S3-240846 Add missing RFC4122 in References section**

*Type: CR For: Approval  
 33.310 v17.8.0 CR-0191 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-240396)

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

**S3-240397 Add missing RFC4122 in References section**

*Type: CR For: Approval  
 33.310 v18.2.0 CR-0192 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240847**.

**S3-240847 Add missing RFC4122 in References section**

*Type: CR For: Approval  
 33.310 v18.2.0 CR-0192 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240397)

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

**S3-240399 Clarify pre-registration in CA/RA for NF instance ID verification**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0193 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240848**.

**S3-240848 Clarify pre-registration in CA/RA for NF instance ID verification**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0193 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240399)

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

**S3-240428 Issue in NSSAA procedures for multiple registration**

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

**Discussion:**

Ericsson: we have been discussing this since Rel-16. Not everyone is seeing this as an issue.

Huawei asked the group to make a decision on whether there was an issue. Only Ericsson had expressed their opinion.

**Decision:** The document was **revised to S3-240868**.

**S3-240868 Issue in NSSAA procedures for multiple registration**

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

(Replaces S3-240428)

**Discussion:**

Huawei commented that this was a serious issue that may require a technical voting. The Chair commented that Huawei could raise this in SA plenary, but Huawei replied that SA would not have the expertise to address this,

The Chair proposed to have a show of hands in order to see everybody's opinion on the question in this document.

Show of hands: Do you agree the issues identified are valid for current NSSAA is not working with mulitple PLMN registrations? (Yes or No)

Q1: For YES

Huawei

Q2: for NO

Ericsson, AT&T, Cisco

Huawei asked to minute given these results: "mulitple registration feature can be supported in the NSSAA procedure since Rel-16. The issue identified in S3-240428 is determined by SA3 not valid, with the following voting outcome" (TBC by Huawei).

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

**S3-240433 Editorial changes to TS33.310**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0194 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240458 Discussion on the failure cases in home network triggered re-authentication**

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

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

**S3-240461 Clear up for HONTRA procedure**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1911 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-240853**.

**S3-240853 Clear up for HONTRA procedure**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1911 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S3-240461)

**Discussion:**

MCC: Note A is correct, but NOTE B should be Note 2.

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

**S3-240462 Add service operations to TS 33.501 based on HONTRA**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1912 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-240471 Add some context to 5GMSG on AKMA Ua star protocol**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1914 Cat: F (Rel-18)  
  
 Source: ZTE FRANCE SASU*

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

**S3-240472 TS 33.501 Rel17 CR on correcting NSWO static network name**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1915 Cat: F (Rel-17)  
  
 Source: CableLabs*

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

**S3-240473 TS 33.501 Rel18 CR on correcting NSWO static network name**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1916 Cat: A (Rel-18)  
  
 Source: CableLabs*

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

**S3-240530 Clarification on the function of UE ID trusted non-3GPP access**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1923 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: no need for this.

**Decision:** The document was **revised to S3-240992**.

**S3-240992 Clarification on the function of UE ID trusted non-3GPP access**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1923 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240530)

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

**S3-240532 CR on key misalignment**

*Type: draftCR For: Agreement  
 33.501 v18.4.0  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: we don’t see the issue here.

The Chair commented that this could be a corner issue, maybe not necessary to add a new clause in this case.

Samsung: this could have an impact on the UE.

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

**S3-240534 Updates to the certificate lifecycle management**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0195 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson didn’t agree with this level of granularity.

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

**S3-240535 Clarifications to the CMP message protection**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0196 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240575 CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203**

*Type: CR For: (not specified)  
 33.203 v17.1.0 CR-0278 Cat: F (Rel-18)  
  
 Source: Apple*

**Decision:** The document was **revised to S3-240855**.

**S3-240855 CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203**

*Type: CR For: -  
 33.203 v17.1.0 CR-0278 rev 1 Cat: F (Rel-18)  
  
 Source: Apple*

(Replaces S3-240575)

**Discussion:**

After this CR was agreed, Nokia objected to this CR and proposed to postpone the issue for the next meeting. They noted that core network should have been checked on the cover page and it could affect current implementations. Huawei commented that this could be corrected by MCC in Plenary and was not reason to not pursue the CR. It was clarified that Nokia also objected to the first change in the body of the CR, not only the cover page.

Apple complained that decisions should not be reverted like this.

Huawei suggested that Nokia could come to Plenary with a revised CR, but the Chair added that Plenary would not have the expertise to agree on a revision.

Thales,China Mobile: if we allow reverting decisions, this could be applied to any document of the meeting. The Chair commented that if there was impact on the current implementations SA3 should be able to correct before it is too late.

Puneet (SA Chair) commented that documents could still be challenged during the meeting week given that SA could not handle these kind of technical issues.Working agreement could also be an option if there was an objection from a single company.

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

**S3-240580 Updates to the SBA certificate profile**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0197 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240583 Correction to validation of usage of X.509 certificate procedure**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0199 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Discussion:**

Huawei didn’t agree with the rationale. They didn’t agree with the change.

**Decision:** The document was **revised to S3-240993**.

**S3-240993 Correction to validation of usage of X.509 certificate procedure**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0199 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-240583)

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

**S3-240622 Add some context to 5GMSG on AKMA Ua star protocol**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1937 Cat: F (Rel-18)  
  
 Source: ZTE*

**Decision:** The document was **revised to S3-240856**.

**S3-240856 Add some context to 5GMSG on AKMA Ua star protocol**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1937 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE*

(Replaces S3-240622)

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

**S3-240647 Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1904 rev 1 Cat: C (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-240375)

**Abstract:**

The implementation of specific algorithms for the transmission of long-term persistent keys carries the risk of using unverified algorithms that could be vulnerable to attacks. However, the use of the TLS protocol, as defined by TS 33.501 in section 13.1.

**Decision:** The document was **revised to S3-240723**.

**S3-240649 Annex regarding assets and threats specific to the PCF network product class**

*Type: CR For: Approval  
 33.926 v18.2.0 CR-0086 rev 1 Cat: B (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-240331)

**Abstract:**

According to the work item SCAS\_5G\_PCF and the discussion paper (S3-240015), the PCF is associated with certain threats. However, these threats are not included in TR33.926. This leaves a blind spot on the threat associated with the PCF.

**Decision:** The document was **revised to S3-240725**.

**S3-240663 Discussion on the 3GPP specific JWT claims registration in IANA**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Discussion:**

Huawei: stage 3 should make the decision for the registration, it is not SA3's business to do this.

Ericsson: we just inform the CT Chair.He has seen this discussion paper.

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

**S3-240664 Updating Internet Drafts to Final RFCs (Rel-17)**

*Type: CR For: Agreement  
 33.434 v17.3.0 CR-0018 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240858**.

**S3-240858 Updating Internet Drafts to Final RFCs (Rel-17)**

*Type: CR For: Agreement  
 33.434 v17.3.0 CR-0018 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-240664)

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

**S3-240665 Updating Internet Drafts to Final RFCs (Rel-18)**

*Type: CR For: Agreement  
 33.434 v18.1.0 CR-0019 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240859**.

**S3-240859 Updating Internet Drafts to Final RFCs (Rel-18)**

*Type: CR For: Agreement  
 33.434 v18.1.0 CR-0019 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240665)

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

**S3-240666 Voiding Reference to TLS 1.1**

*Type: CR For: Agreement  
 33.501 v16.17.0 CR-1948 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-240667 Voiding Reference to TLS 1.1**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1949 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-240668 Voiding Reference to TLS 1.1**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1950 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-240669 Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-240670 Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1951 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Nokia and NTT-Docomo didn’t agree with the "AUSF behaviour is up to implementation" as it brought many problems to the operators.

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

**S3-240671 Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1952 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-240723 Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1904 rev 2 Cat: C (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-240647)

**Abstract:**

The implementation of specific algorithms for the transmission of long-term persistent keys carries the risk of using unverified algorithms that could be vulnerable to attacks. However, the use of the TLS protocol, as defined by TS 33.501 in section 13.1.

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

**S3-240725 Annex regarding assets and threats specific to the PCF network product class**

*Type: CR For: Agreement  
 33.926 v18.2.0 CR-0086 rev 2 Cat: B (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-240649)

**Abstract:**

According to the work item SCAS\_5G\_PCF and the discussion paper (S3-240015), the PCF is associated with certain threats. However, these threats are not included in TR33.926. This leaves a blind spot on the threat associated with the PCF.

**Decision:** The document was **revised to S3-240860**.

**S3-240860 Annex regarding assets and threats specific to the PCF network product class**

*Type: CR For: Agreement  
 33.926 v18.2.0 CR-0086 rev 3 Cat: B (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-240725)

**Discussion:**

Huawei: this depends on the related draft being approved in SA plenary.

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

**S3-240730 Discussion on protecting header information in UPU**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

(Replaces S3-234701)

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

**S3-240731 Protection of UPU header**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1612 rev 3 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234702)

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

**S3-240754 UPU Header Security**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1962 Cat: F (Rel-18)  
  
 Source: Lenovo*

**Decision:** The document was **revised to S3-240991**.

**S3-240991 UPU Header Security**

*Type: CR For: Approval  
 33.501 v18.4.0 CR-1962 rev 1 Cat: F (Rel-18)  
  
 Source: Lenovo*

(Replaces S3-240754)

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

**S3-240776 Clarification to non-SBA interfaces**

*Type: CR For: (not specified)  
 33.501 v18.4.0 CR-1963 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: there isn't an issue here. If there is an issue we should go back to rel-15 to align all releases.

Ericsson: not needed.

China Mobile: N32 is not a service based interface.

NTT-Docomo: it is a service based interface, but not registered in the NRF.

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

**S3-240940 LS on Registering JWT Claims at IANA**

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

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

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

**S3-240318 Discussion of the protection mechanism of the permanent key leaving the UDR environment.**

*Type: discussion For: Agreement  
 33.530 v..  
 Source: BSI (DE)*

(Replaces S3-240025)

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

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

**S3-240514 update UP policy testing to align with split gNB SCAS**

*Type: CR For: Approval  
 33.511 v18.2.0 CR-0065 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-240521 Add certificate enrolment to TS 33.511**

*Type: draftCR For: Approval  
 33.511 v18.2.0  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson asked to postpone this for the next meeting.

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

**S3-240522 Local certificate checking at gNB to TS 33.511**

*Type: draftCR For: Approval  
 33.511 v18.2.0  
 Source: Huawei, HiSilicon*

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

**S3-240523 Peer certificate checking at gNB to TS 33.511**

*Type: draftCR For: Approval  
 33.511 v18.2.0  
 Source: Huawei, HiSilicon*

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

**S3-240524 expired certificate checking at gNB to TS 33.511**

*Type: draftCR For: Approval  
 33.511 v18.2.0  
 Source: Huawei, HiSilicon*

**Discussion:**

Huawei commented that this was submitted as a CR in Chicago and Ericsson had concerns about that, hence the draft CR here. It was not clear what their concerns were since this whole package would be resubmitted to the next meeting.

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

**S3-240525 Add threat to certificate enrolment to TR 33.926**

*Type: draftCR For: Approval  
 33.926 v18.2.0  
 Source: Huawei, HiSilicon*

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

**S3-240526 Add threat to local certificate checking at gNB**

*Type: draftCR For: Approval  
 33.926 v18.2.0  
 Source: Huawei, HiSilicon*

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

**S3-240527 Add threat to peer certificate checking at gNB**

*Type: draftCR For: Approval  
 33.926 v18.2.0  
 Source: Huawei, HiSilicon*

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

**S3-240528 Add threat to expired certificate checking at gNB**

*Type: draftCR For: Approval  
 33.926 v18.2.0  
 Source: Huawei, HiSilicon*

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

**S3-240531 Clarification on execute steps 3 about operating system to adapt to more scenario**

*Type: CR For: Agreement  
 33.117 v18.2.0 CR-0186 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240871**.

**S3-240871 Clarification on execute steps 3 about operating system to adapt to more scenario**

*Type: CR For: Agreement  
 33.117 v18.2.0 CR-0186 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-240531)

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

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

**S3-240727 SMSF Specific Security requirement and test case for draft TS 33.529**

*Type: pCR For: Approval  
 33.529 v0.3.0  
 Source: IIT Bombay*

**Abstract:**

This contribution proposes to add new requirement and a test case for protection of the non-SBI Diameter-based SGd interface for communication to and from SMSF with IP-SM-GW/GMSC/SMS- router.

**Decision:** The document was **revised to S3-240872**.

**S3-240872 SMSF Specific Security requirement and test case for draft TS 33.529**

*Type: pCR For: Approval  
 33.529 v0.3.0  
 Source: IIT Bombay*

(Replaces S3-240727)

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

**S3-240736 Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF**

*Type: CR For: Approval  
 33.926 v18.2.0 CR-0092 Cat: B (Rel-19)  
  
 Source: IIT Bombay*

**Discussion:**

Continuing content from agreed CR S3-240121

**Decision:** The document was **revised to S3-240873**.

**S3-240873 Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF**

*Type: CR For: Approval  
 33.926 v18.2.0 CR-0092 rev 1 Cat: B (Rel-19)  
  
 Source: IIT Bombay*

(Replaces S3-240736)

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

**S3-240756 Diameter Session security requirements on SGd interface for Security Assurance Specifications for SMSF requirements**

*Type: pCR For: Approval  
 33.529 v0.3.0  
 Source: IIT Bombay*

**Abstract:**

This contribution proposes to add a test case for Diameter session requirements on SMSF specific SGd interface.

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

**S3-240774 Add a clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF**

*Type: CR For: Approval  
 33.926 v18.2.0 CR-0093 Cat: B (Rel-19)  
  
 Source: IIT Bombay*

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

**S3-240816 Minor additions/modifications for draft TS 33.529**

*Type: pCR For: Approval  
 33.529 v0.3.0  
 Source: IIT Bombay*

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

**S3-240874 Draft TS 33.529**

*Type: draft TS For: Approval  
 33.529 v0.4.0  
 Source: IIT Bombay*

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

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

**S3-240286 Updates on WID on Addition of 256-bit security Algorithms**

*Type: WID revised For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240875**.

**S3-240875 Updates on WID on Addition of 256-bit security Algorithms**

*Type: WID revised For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240286)

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

**S3-240309 Introduction of the Snow 5G 256-bits algorithm specification**

*Type: draft TS For: Approval  
 35.240 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234424)

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

**S3-240269 Introduction of the Snow 5G 256-bits implementers’ test data**

*Type: draft TS For: (not specified)  
 35.241 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234425)

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

**S3-240270 Introduction of the Snow 5G 256-bits design conformance test data**

*Type: draft TS For: Approval  
 35.242 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234426)

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

**S3-240271 Introduction of the AES 256-bits algorithm specification**

*Type: draft TS For: Approval  
 35.243 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234427)

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

**S3-240272 Introduction of the AES 256-bits implementers’ test data**

*Type: draft TS For: Approval  
 35.244 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234428)

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

**S3-240273 Introduction of the AES 256-bits design conformance test data**

*Type: draft TS For: Approval  
 35.245 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234429)

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

**S3-240274 Introduction of the ZUC based 256-bits algorithm specification**

*Type: draft TS For: Approval  
 35.246 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234430)

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

**S3-240275 Introduction of the ZUC 256-bits implementers’ test data**

*Type: draft TS For: Approval  
 35.247 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234431)

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

**S3-240276 Introduction of the ZUC 256-bits design conformance test data**

*Type: draft TS For: Approval  
 35.248 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234432)

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

**S3-240278 Technical provision to Snow 5G based 256-bit Algorithm Implementation Test Data**

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

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

**S3-240279 Technical provision to Snow 5G based 256-bit Algorithm Conformance Test Data**

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

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

**S3-240280 Technical provision to AES based 256-bit Algorithm Specification**

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

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

**S3-240281 Technical provision to AES based 256-bit Algorithm Implementation Test Data**

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

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

**S3-240282 Technical provision to AES based 256-bit Algorithm Conformance Test Data**

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

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

**S3-240310 Technical provision to Snow 5G based 256-bit Algorithm Specification**

*Type: pCR For: Approval  
 35.240 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240594 Technical Provision to ZUC based 256-bit algorithm specification**

*Type: pCR For: (not specified)  
 35.246 v0.1.0  
 Source: Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC*

(Replaces S3-240292)

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

**S3-240595 Technical Provision to ZUC based 256-bit Algorithm Implementation Test Data**

*Type: pCR For: (not specified)  
 35.247 v0.1.0  
 Source: Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC*

(Replaces S3-240293)

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

**S3-240597 Technical Provision to ZUC based 256-bit algorithm conformance test data**

*Type: pCR For: (not specified)  
 35.248 v0.1.0  
 Source: Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC*

(Replaces S3-240294)

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

**S3-240268 Coverpage for TS 35.240 Skeleton for the Snow 5G based 256-bit Algorithm**

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

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

**S3-240277 Technical provision to Snow 5G based 256-bit Algorithm Specification**

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

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

**S3-240283 Technical provision to ZUC based 256-bit Algorithm Specification**

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

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

**S3-240284 Technical provision to ZUC based 256-bit Algorithm Implementation Test Data**

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

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

**S3-240285 Technical provision to ZUC based 256-bit Algorithm Conformance Test Data**

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

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

**S3-240292 Technical Provision to ZUC based 256-bit algorithm specification**

*Type: pCR For: (not specified)  
 35.246 v0.1.0  
 Source: Huawei, HiSilicon, CATT*

**Decision:** The document was **revised to S3-240594**.

**S3-240293 Technical Provision to ZUC based 256-bit Algorithm Implementation Test Data**

*Type: pCR For: (not specified)  
 35.247 v0.1.0  
 Source: Huawei, HiSilicon, CATT*

**Decision:** The document was **revised to S3-240595**.

**S3-240294 Technical Provision to ZUC based 256-bit algorithm conformance test data**

*Type: pCR For: (not specified)  
 35.248 v0.1.0  
 Source: Huawei, HiSilicon, CATT*

**Decision:** The document was **revised to S3-240596, S3-240597**.

**S3-240495 Updates on WID on Addition of 256-bit security Algorithms**

*Type: WID revised For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-240596 Technical Provision to ZUC based 256-bit algorithm conformance test data**

*Type: pCR For: (not specified)  
 35.248 v0.1.0  
 Source: Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC*

(Replaces S3-240294)

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

**S3-241011 Draft TS 35.240**

*Type: draft TS For: Approval  
 35.240 v0.3.0  
 Source: Nokia*

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

**S3-241012 Draft TS 35.241**

*Type: draft TS For: Approval  
 35.241 v0.3.0  
 Source: Nokia*

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

**S3-241013 Draft TS 35.242**

*Type: draft TS For: Approval  
 35.242 v0.3.0  
 Source: Nokia*

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

**S3-241014 Draft TS 35.243**

*Type: draft TS For: Approval  
 35.243 v0.3.0  
 Source: Nokia*

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

**S3-241015 Draft TS 35.244**

*Type: draft TS For: Approval  
 35.244 v0.3.0  
 Source: Nokia*

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

**S3-241016 Draft TS 35.245**

*Type: draft TS For: Approval  
 35.245 v0.3.0  
 Source: Nokia*

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

**S3-241017 Draft TS 35.246**

*Type: draft TS For: Approval  
 35.246 v0.3.0  
 Source: Nokia*

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

**S3-241018 Draft TS 35.247**

*Type: draft TS For: Approval  
 35.247 v0.3.0  
 Source: Nokia*

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

**S3-241019 Draft TS 35.248**

*Type: draft TS For: Approval  
 35.248 v0.3.0  
 Source: Nokia*

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

**S3-241023 Cover sheet TS 33.240**

*Type: TS or TR cover For: Approval  
 33.240 v..  
 Source: Nokia*

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

**S3-241024 Cover sheet TS 33.241**

*Type: TS or TR cover For: Approval  
 33.241 v..  
 Source: Nokia*

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

**S3-241025 Cover sheet TS 33.242**

*Type: TS or TR cover For: Approval  
 33.242 v..  
 Source: Nokia*

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

**S3-241026 Cover sheet TS 33.243**

*Type: TS or TR cover For: Approval  
 33.243 v..  
 Source: Nokia*

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

**S3-241027 Cover sheet TS 33.244**

*Type: TS or TR cover For: Approval  
 33.244 v..  
 Source: Nokia*

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

**S3-241028 Cover sheet TS 33.245**

*Type: TS or TR cover For: Approval  
 33.245 v..  
 Source: Nokia*

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

**S3-241029 Cover sheet TS 33.246**

*Type: TS or TR cover For: Approval  
 33.246 v..  
 Source: Nokia*

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

**S3-241030 Cover sheet TS 33.247**

*Type: TS or TR cover For: Approval  
 33.247 v..  
 Source: Nokia*

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

**S3-241031 Cover sheet TS 33.248**

*Type: TS or TR cover For: Approval  
 33.248 v..  
 Source: Nokia*

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

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

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

**S3-240404 TS 35.235 Skeleton**

*Type: draft TS For: Approval  
 35.235 v0.0.0  
 Source: THALES*

**Abstract:**

Skeleton for TS 35.235

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

**S3-240405 TS 35.236 Skeleton**

*Type: draft TS For: Approval  
 35.236 v0.0.0  
 Source: THALES*

**Abstract:**

TS 35.236 skeleton

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

**S3-240406 TS 35.237 Skeleton**

*Type: draft TS For: Approval  
 35.237 v0.0.0  
 Source: THALES*

**Abstract:**

TS 35.237 skeleton

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

**S3-240817 TS 35.234 skeleton**

*Type: draft TS For: Approval  
 35.234 v0.0.0  
 Source: THALES*

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

**S3-240818 TS 35.235 skeleton**

*Type: draft TS For: Approval  
 35.235 v0.0.0  
 Source: THALES*

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

**S3-240819 TS 35.236 skeleton**

*Type: draft TS For: Approval  
 35.236 v0.0.0  
 Source: THALES*

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

**S3-240820 TS 35.237 Skeleton**

*Type: draft TS For: Approval  
 35.237 v0.0.0  
 Source: THALES*

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

**S3-240407 pCR: TS 35.234 introduction**

*Type: pCR For: Approval  
 35.234 v0.0.0  
 Source: THALES*

**Abstract:**

TS 35.234 introduction

**Discussion:**

Remove "prepared by SAGE"

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

**S3-240408 pCR: TS 35.235 introduction**

*Type: pCR For: Approval  
 35.235 v0.0.0  
 Source: THALES*

**Abstract:**

TS 35.235 skeleton

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

**S3-240409 pCR: TS 35.236 introduction**

*Type: pCR For: Approval  
 35.236 v0.0.0  
 Source: THALES*

**Abstract:**

TS 35.236 introduction

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

**S3-240410 pCR: TS 35.237 introduction**

*Type: pCR For: Approval  
 35.237 v0.0.0  
 Source: THALES*

**Abstract:**

TS 35.237 introduction

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

**S3-240403 TS 35.234 skeleton**

*Type: draft TS For: Approval  
 35.234 v0.0.0  
 Source: THALES*

**Abstract:**

Skeleton of TS 35.234

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

**S3-240936 Draft TS 35.237**

*Type: draft TS For: discussion  
 35.237 v0.1.0  
 Source: Thales*

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

**S3-240937 Draft TS 35.234**

*Type: draft TS For: discussion  
 35.234 v0.1.0  
 Source: Thales*

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

**S3-240938 Draft TS 35.235**

*Type: draft TS For: discussion  
 35.235 v0.1.0  
 Source: Thales*

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

**S3-240939 Draft TS 35.236**

*Type: draft TS For: discussion  
 35.236 v0.1.0  
 Source: Thales*

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

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

**S3-240675 Updates to the IKEv2 profile**

*Type: CR For: Agreement  
 33.210 v17.1.0 CR-0079 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240877**.

**S3-240877 Updates to the IKEv2 profile**

*Type: CR For: Agreement  
 33.210 v17.1.0 CR-0079 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson*

(Replaces S3-240675)

**Discussion:**

Content is agreed and it will go into draft CR S3-240876.

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

**S3-240676 Updates to the 3GPP TLS profile**

*Type: CR For: Agreement  
 33.210 v17.1.0 CR-0080 Cat: C (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

Huawei: changes based on draft RFCs are not appropriate.

**Decision:** The document was **revised to S3-240878**.

**S3-240878 Updates to the 3GPP TLS profile**

*Type: CR For: Agreement  
 33.210 v17.1.0 CR-0080 rev 1 Cat: C (Rel-19)  
  
 Source: Ericsson*

(Replaces S3-240676)

**Discussion:**

Content will go into the draft CR in tdoc 876.

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

**S3-240639 Updates to TLS protocol profiles**

*Type: CR For: Approval  
 33.210 v17.1.0 CR-0077 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240650 Updates to Profiling of IPsec**

*Type: CR For: Approval  
 33.210 v17.1.0 CR-0078 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: why mentioning IKEv1, which is deprecated, if we use IKEv2?

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

**S3-240677 Change of requirements for DTLS over SCTP (DTLS/SCTP)**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1954 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

Huawei: not in scope of the work item. It’s softening a requirement.

Cisco: IETF is trying to find a workaround to fix this. When we have the improvement we can make the changes. Leave it as it is until then.

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

**S3-240463 Remove the reference to TLS 1.1**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1913 Cat: F (Rel-19)  
  
 Source: ZTE Corporation*

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

**S3-240620 Update the reference to DTLS 1.3**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0206 Cat: F (Rel-19)  
  
 Source: ZTE Corporation*

**Discussion:**

Huawei: don’t restrict this to Rel-19 if it’s a wrong reference.

It was checked how far back the error happened and stop in Rel-18 in order not to create a Rel-19 version of the spec.

**Decision:** The document was **revised to S3-240879**.

**S3-240879 Update the reference to DTLS 1.3**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0206 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S3-240620)

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

**S3-240621 Update the reference to DTLS 1.3**

*Type: CR For: Agreement  
 33.220 v18.2.0 CR-0229 Cat: F (Rel-19)  
  
 Source: ZTE*

**Decision:** The document was **revised to S3-240880**.

**S3-240880 Update the reference to DTLS 1.3**

*Type: CR For: Agreement  
 33.220 v18.2.0 CR-0229 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE*

(Replaces S3-240621)

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

**S3-240672 Update of an Obsoleted RFC**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1953 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

NTT-Docomo: backwards comppatible? It was kept open to be checked.

Content will go into the draft CR in 881.

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

**S3-240673 Updating Obsolete RFC 2818 by RFC 9110**

*Type: CR For: Agreement  
 33.246 v17.0.0 CR-0195 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

NTT\_Docomo needed time to check the RFC for backwards compatiblity issues.

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

**S3-240674 Replacing MD5 with SHA-256 in Example**

*Type: CR For: Agreement  
 33.246 v17.0.0 CR-0196 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

It was commented that this would create a Rel-18 version and a Rel-19 version of the specification.

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

**S3-240678 Clarifications for EAP-TLS 1.3**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1955 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

Content will go into the draft CR for TS 33.510.

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

**S3-240679 Clarifications of privacy options for EAP-TLS**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1956 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S3-240464 Update the reference to DTLS 1.3**

*Type: CR For: Agreement  
 33.535 v18.2.0 CR-0205 Cat: F (Rel-19)  
  
 Source: ZTE Corporation*

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

**S3-240465 Update the reference to DTLS 1.3**

*Type: CR For: Agreement  
 33.220 v18.2.0 CR-0228 Cat: F (Rel-19)  
  
 Source: ZTE Corporation*

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

**S3-240876 Draft CR on CryptoSP TS 33.210**

*Type: draftCR For: discussion  
 33.210 v17.1.0  
 Source: Ericsson*

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

**S3-240881 Draft CR CryptoSP for TS 33.501**

*Type: draftCR For: Approval  
 33.501 v18.4.0  
 Source: Ericsson*

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

## 5 Rel-19 Studies

### 5.1 New Study on enablers for Zero Trust Security

**S3-240314 Draft TR33.794 Skeleton**

*Type: draft TR For: Approval  
 33.794 v0.0.0  
 Source: Lenovo*

**Discussion:**

Huawei: data to be exposed as clause title? We are not taking a stand yet.

Ericsson had also doubts on the

**Decision:** The document was **revised to S3-240896**.

**S3-240896 Draft TR33.794 Skeleton**

*Type: draft TR For: Approval  
 33.794 v0.0.0  
 Source: Lenovo*

(Replaces S3-240314)

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

**S3-240332 Scope to TR 33.794**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell, Johns Hopkins University APL*

**Decision:** The document was **revised to S3-240897**.

**S3-240897 Scope to TR 33.794**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell, Johns Hopkins University APL*

(Replaces S3-240332)

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

**S3-240333 Introduction to TR 33.794**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell*

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

**S3-240334 Security Assumptions for TR 33.794**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Johns Hopkins University APL*

**Decision:** The document was **revised to S3-240898**.

**S3-240898 Security Assumptions for TR 33.794**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Johns Hopkins University APL*

(Replaces S3-240334)

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

**S3-240688 Security Assumptions for Study on enablers for Zero Trust Security**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Lenovo*

**Discussion:**

Huawei: we are not taking the stand of exposing the security logs.

**Decision:** The document was **revised to S3-240902**.

**S3-240902 Security Assumptions for Study on enablers for Zero Trust Security**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Lenovo*

(Replaces S3-240688)

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

**S3-240335 Data related to Malformed Message**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications*

**Decision:** The document was **revised to S3-240903**.

**S3-240903 Data related to Malformed Message**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications*

(Replaces S3-240335)

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

**S3-240336 Data related to Massive number of Service Messages**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240904**.

**S3-240904 Data related to Massive number of Service Messages**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell*

(Replaces S3-240336)

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

**S3-240383 ZTS New Data exposure use case: Unauthorized/unauthenticated NF service access request**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: MITRE Corporation*

**Abstract:**

A NF service access request that is made by an unauthenticated or unauthorized NF should be logged and reported for security monitoring and evaluation to enable traceability and accountability and detect potentially compromised NFs.

**Decision:** The document was **revised to S3-240905**.

**S3-240905 ZTS New Data exposure use case: Unauthorized/unauthenticated NF service access request**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: MITRE Corporation*

(Replaces S3-240383)

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

**S3-240385 ZTS New data exposure use case: Topology discovery**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: MITRE Corporation*

**Abstract:**

Only checking to see if a certificate is valid and not applying any context (e.g. is NF consumer allowed to or expected to contact the NF producer) to the check allows the consumer NF to discover the network topology.

**Discussion:**

Huawei needed some clarifications

**Decision:** The document was **revised to S3-241020**.

**S3-241020 ZTS New data exposure use case: Topology discovery**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: MITRE Corporation*

(Replaces S3-240385)

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

**S3-240814 Use case : security data exposure for API security risks on 5G SBA layer**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Lenovo*

**Discussion:**

Ericsson: too much detail.

Huawei didn’t agree with this.

**Decision:** The document was **revised to S3-241004**.

**S3-241004 Use case : security data exposure for API security risks on 5G SBA layer**

*Type: pCR For: Approval  
 33.794 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, AT&T, Lenovo*

(Replaces S3-240814)

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

**S3-240337 KI related to WT1**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T*

**Discussion:**

Huawei: same key issue from previous TR, we would be repeating the same discussions.

Lenovo: this key issue was agreed.

**Decision:** The document was **revised to S3-241005**.

**S3-241005 KI related to WT1**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T*

(Replaces S3-240337)

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

**S3-240338 Usecase for security policy enforcement**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T*

**Decision:** The document was **revised to S3-241021**.

**S3-241021 Usecase for security policy enforcement**

*Type: pCR For: Approval  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility, AT&T*

(Replaces S3-240338)

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

**S3-240382 FS\_eZTS Timeline**

*Type: discussion For: Endorsement  
 Source: MITRE Corporation*

**Abstract:**

This contribution proposes a timeline for the contents to be included into the TR 33.794.

**Discussion:**

The Chair commented that solutions should be submitted before November. Solutions should not come in the last meeting.

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

**S3-240740 FS\_eZTS offline Call Minutes**

*Type: pCR For: Information  
 33.794 v0.0.1  
 Source: Lenovo, Motorola Mobility*

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

**S3-241038 Draft TR 33.794**

*Type: draft TR For: Approval  
 33.794 v0.1.0  
 Source: Lenovo*

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

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

**S3-240761 TR 33.790 skeleton**

*Type: draft TR For: Approval  
 33.790 v0.0.0  
 Source: Ericsson, China Mobile*

**Discussion:**

Nokia: we don’t normally talk about earlier releases studies (on the background clause). Replace background with assumptions.

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

**S3-240715 Scope for NG RTC SEC Ph2 SID**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: China Mobile, Ericsson*

**Decision:** The document was **revised to S3-240942**.

**S3-240942 Scope for NG RTC SEC Ph2 SID**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: China Mobile, Ericsson*

(Replaces S3-240715)

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

**S3-240762 TR 33.790 Background clause proposal**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Ericsson*

**Discussion:**

Huawei: it reads like evaluation of solutions.

MCC: reword as it also reads like objectives of the study (e.g. "needs to be aligned..", instead of "aligns with..").

Huawei: we always align with SA2, we don’t need this assumption.

**Decision:** The document was **revised to S3-240943**.

**S3-240943 TR 33.790 Background clause proposal**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Ericsson*

(Replaces S3-240762)

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

**S3-240553 A new KI on third party specific user identities**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240716 Key issue of third party specific user identities**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: China Mobile, Ericsson*

**Decision:** The document was **revised to S3-240944**.

**S3-240944 Key issue of third party specific user identities**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: China Mobile, Ericsson*

(Replaces S3-240716)

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

**S3-240782 Key issue for third party specific user identities**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-240347 New KI - Authorization in IMS Avatar communication**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Philips International B.V.*

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

**S3-240554 a new KI on the security of Avartar Communication**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240763 New Key issue on the security of IMS Avatar Communication using Data Channel**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240945**.

**S3-240945 New Key issue on the security of IMS Avatar Communication using Data Channel**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Ericsson*

(Replaces S3-240763)

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

**S3-240560 Discussion on the security of Avatar Communication**

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

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

**S3-240615 new key issue on IMS DC capability exposure**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC: aliign requirements language in all contributions(shall be able to support, shall provide capability to support,..instead of shall support).

**Decision:** The document was **revised to S3-240946**.

**S3-240946 new key issue on IMS DC capability exposure**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240615)

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

**S3-240616 new key issue on authenticity of DC application**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei didn’t agree with the key issue, out of scope of the study.

CableLabs thought it was in scope.

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

**S3-240559 A new solution on third-party specific user identities**

*Type: pCR For: Approval  
 33.790 v0.0.0  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia didn’t agree with this.

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

**S3-240941 Draft TR 33.790**

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

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

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

**S3-240411 skeleton of TR 33.757**

*Type: draft TR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp, ZTE*

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

**S3-240412 Scope of TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp, ZTE, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240976**.

**S3-240976 Scope of TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces S3-240412)

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

**S3-240387 Scope for TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.1  
 Source: Johns Hopkins University APL*

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

**S3-240413 Overview of TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240978**.

**S3-240978 Overview of TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell*

(Replaces S3-240413)

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

**S3-240386 Overview for TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.1  
 Source: Johns Hopkins University APL*

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

**S3-240468 Add terms to TR 33.757**

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

**Discussion:**

Use of the term "premises" was deemed inadequate by some companies.

**Decision:** The document was **revised to S3-241006**.

**S3-241006 Add terms to TR 33.757**

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

(Replaces S3-240468)

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

**S3-240414 Security assumptions of TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240979**.

**S3-240979 Security assumptions of TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell*

(Replaces S3-240414)

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

**S3-240415 New KI on dedicated UPF interacting with PLMN through N4 interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecom, ZTE, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-240718 new KI - security of signalling message in N4 interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Mobile*

**Discussion:**

It was pointed out that SA3-LI would need to look at this.

**Decision:** The document was **revised to S3-240980**.

**S3-240980 new KI - security of signalling message in N4 interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Mobile*

(Replaces S3-240718)

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

**S3-240721 new KI - Security of topology hiding in N4 interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Mobile*

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

**S3-240416 New KI on dedicated NFs interacting with PLMN through SBA interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecom, ZTE, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240981**.

**S3-240981 New KI on dedicated NFs interacting with PLMN through SBA interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Telecom, ZTE, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-240416)

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

**S3-240696 Key Issue on NF Authorization in PLMN hosting NPN Scenario**

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

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

**S3-240719 new KI - security of signalling message in SBI interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Mobile*

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

**S3-240722 new KI - Security of topology hiding in SBA interface**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Mobile*

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

**S3-240788 New KI on authorization of NFs deployed in the customer premises**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: Xiaomi Communications*

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

**S3-240474 Key issue on SUPI privacy issue in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: IIT Delhi, IIT Bhilai, Samsung*

**Decision:** The document was **revised to S3-241007**.

**S3-241007 Key issue on SUPI privacy issue in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: IIT Delhi, IIT Bhilai, Samsung*

(Replaces S3-240474)

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

**S3-240720 new KI - security of subscription data sharing**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: China Mobile*

**Discussion:**

Nokia: we need more time to understand the threat before agreeing on this.

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

**S3-240469 New KI on UE authentication**

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

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

**S3-240697 Key Issue on DNS Security in PLMN hosting NPN Scenario**

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

**Discussion:**

Huawei: benefit for the attacker here?

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

**S3-240389 New key issue on topology hiding for TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.1  
 Source: Johns Hopkins University APL*

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

**S3-240390 New key issue on malformed message for TR 33.757**

*Type: pCR For: Approval  
 33.757 v0.0.1  
 Source: Johns Hopkins University APL*

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

**S3-240446 Key issue on SUPI privacy issue in PLMN hosting NPN Scenario**

*Type: pCR For: Approval  
 33.757 v0.0.0  
 Source: IIT Delhi, IIT Bhilai*

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

**S3-240977 Draft TR 33.757**

*Type: draft TR For: Approval  
 33.757 v0.1.0  
 Source: China Telecom*

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

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

**S3-240207 Proposed skeleton for TR 33.776 Study of Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA)**

*Type: draft TR For: Approval  
 33.776 v0.0.0  
 Source: Cisco Systems*

**Abstract:**

This contribution proposes a skeleton for the study.

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

**S3-240316 Introduction for TR 33.776**

*Type: pCR For: (not specified)  
 33.776 v0.0.0  
 Source: Google Inc.*

**Discussion:**

Huawei: some content here is subjective.

Nokia provided other changes as well.

**Decision:** The document was **revised to S3-240983**.

**S3-240983 Introduction for TR 33.776**

*Type: pCR For: -  
 33.776 v0.0.0  
 Source: Google Inc.*

(Replaces S3-240316)

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

**S3-240317 Scope for TR 33.776**

*Type: pCR For: (not specified)  
 33.776 v0.0.0  
 Source: Google Inc.*

**Discussion:**

Huawei, Nokia: last objective doesn’t appear in the approved study.

**Decision:** The document was **revised to S3-240987**.

**S3-240987 Scope for TR 33.776**

*Type: pCR For: -  
 33.776 v0.0.0  
 Source: Google Inc.*

(Replaces S3-240317)

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

**S3-240823 New key issue on Trust Anchors**

*Type: pCR For: (not specified)  
 33.776 v0.0.0  
 Source: Google Inc., John Hopkins University APL, Cisco*

**Discussion:**

Huawei: key issue written in a solution form. It should refer to existing solutions.

**Decision:** The document was **revised to S3-240998**.

**S3-240998 New key issue on Trust Anchors**

*Type: pCR For: -  
 33.776 v0.0.0  
 Source: Google Inc., John Hopkins University APL, Cisco*

(Replaces S3-240823)

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

**S3-240822 New key issue on Secure Transport of Messages**

*Type: pCR For: (not specified)  
 33.776 v0.0.0  
 Source: Google Inc.*

**Discussion:**

Nokia: not sure what this means, chicken-egg problem.

NCSC: this doesn’t feel like a key issue.

Huawei: what's the key issue for?

**Decision:** The document was **revised to S3-240997**.

**S3-240997 New key issue on Secure Transport of Messages**

*Type: pCR For: -  
 33.776 v0.0.0  
 Source: Google Inc.*

(Replaces S3-240822)

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

**S3-240824 New key issue on ACME Challenge Validation**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Google Inc.*

**Discussion:**

Nokia agreed with the key issue. It shouldn’t refer to the SHAKEN.

Huawei:better to merge with similar key issues.

**Decision:** The document was **revised to S3-240984**.

**S3-240984 New key issue on ACME Challenge Validation**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Google Inc.*

(Replaces S3-240824)

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

**S3-240367 New key issue on Certificate Enrolment**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Johns Hopkins University APL*

**Discussion:**

Nokia: remove security threats and requirements.

**Decision:** The document was **revised to S3-240985**.

**S3-240985 New key issue on Certificate Enrolment**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Johns Hopkins University APL*

(Replaces S3-240367)

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

**S3-240504 New KI on limitations of ACME protocol**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240369 New key issue on certificate renewal**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Johns Hopkins University APL*

**Discussion:**

NCSC: threats and requirements are not applicable. They should be removed.

**Decision:** The document was **revised to S3-240986**.

**S3-240986 New key issue on certificate renewal**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Johns Hopkins University APL*

(Replaces S3-240369)

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

**S3-240368 New key issue on certificate revocation**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Johns Hopkins University APL*

**Discussion:**

Huawei: we are not defining a new framework.Refer to existing mechanisms.

NCSC didn’t agree with this.

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

**S3-240379 New key issue for automated certificate management protocol selection**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Cisco Systems*

**Abstract:**

This contribution proposes a new key issue to address the need for a mechanism for a network function to select an appropriate protocol to use for automated certificate management in SBA.

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

**S3-240380 New key issue on client identity validation**

*Type: pCR For: Approval  
 33.776 v0.0.0  
 Source: Telus, CIsco Systems*

**Abstract:**

This document proposes a new key issue on client identity validation for TR 33.776 - Automated Certificate Management Environment (ACME) for the Service Based Architecture (SBA).

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

**S3-240392 Proposed skeleton for TR 33.776 Study of Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA)**

*Type: draft TR For: Approval  
 33.776 v0.0.0  
 Source: Cisco Systems*

**Abstract:**

This contribution proposes a skeleton for the study.

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

**S3-240982 Draft TR 33.776**

*Type: draft TR For: Approval  
 33.776 v0.1.0  
 Source: Cisco*

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

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

**S3-240330 Draft Skeleton for TR 33.700-41**

*Type: draft TR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

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

**S3-240319 Introduction for TR 33.700-41**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

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

**S3-240320 Scope definition for TR 33.700-41**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

**Discussion:**

Ericsson: keep the removed paragraph.

MCC: this reads like the objectives of the study, not like the scope of the document. It needs some rewording.

**Decision:** The document was **revised to S3-241008**.

**S3-241008 Scope definition for TR 33.700-41**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

(Replaces S3-240320)

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

**S3-240321 Assumptions for TR 33.700-41**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

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

**S3-240543 Assumption proposal for the 256-bit algorithm introduction study**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-241009**.

**S3-241009 Assumption proposal for the 256-bit algorithm introduction study**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Huawei, HiSilicon*

(Replaces S3-240543)

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

**S3-240628 Discussion about 256-bit security**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-240629 Adding Security Assumpations to TR 33.700-41**

*Type: pCR For: Approval  
 33.700-41 v0.0.0  
 Source: Ericsson*

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

**S3-240322 New Key Issue on insufficient long-term key length for 256-bit security**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation, THALES*

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

**S3-240698 Key Issue on insufficient entropy due to permanent secret key length (K)**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Samsung*

**Decision:** The document was **revised to S3-241022**.

**S3-241022 Key Issue on insufficient entropy due to permanent secret key length (K)**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Samsung*

(Replaces S3-240698)

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

**S3-240785 New KI on 256-bit security algorithm negotiation**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Xiaomi Communications*

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

**S3-240300 Key issue on Dynamic change of AKA parameters in Authentication procedures**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240769 New KI on Key Derivation**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: OPPO*

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

**S3-240784 New KI on 256-bit CK IK in AKA procedure**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Xiaomi Communications*

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

**S3-240323 New Key Issue on different cryptographic key lengths in dual connectivity**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

**Discussion:**

OPPO: no new threats in the key issues, we are introducing a new algoirthm not fixing something that is broken.

Ericsson didn’t agree with the key issue, they didn’t see the security threat either.

CableLabs found it useful the keep the scenario for backward compatibility reasons, even without threats and potential requirements.

Qualcomm didn’t agree with just collecting scenarios without having anything to do.

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

**S3-240325 New Key Issue on different cryptographic key lengths across AMF change and AMF reallocation**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

**Discussion:**

Qualcomm and Ericsson didn’t agree with the key issue.

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

**S3-240326 New Key Issue on different cryptographic key lengths across handovers**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

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

**S3-240327 New Key Issue on different cryptographic key lengths on AS and NAS layer**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

**Discussion:**

Nokia didn’t agree with this.Huawei and Ericsson didn’t like the key issue either.

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

**S3-240573 New KI for CAT\_256 on Flexibility to adjust the preference on security algorithms**

*Type: pCR For: (not specified)  
 33.700-41 v0.0.1  
 Source: Apple*

**Discussion:**

Same concerns as 327.

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

**S3-240298 Key issue on 256-bit algorithm adaptation in NAS procedures**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240299 Key issue on 256-bit algorithm adaptation in AS procedures**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240492 Key issues on Introduction of 256-bit algorithms in 5G system**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240989**.

**S3-240989 Key issues on Introduction of 256-bit algorithms in 5G system**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Huawei, HiSilicon*

(Replaces S3-240492)

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

**S3-240324 New Key Issue on bid-down attacks during negotiation of cryptographic algorithms and key lengths**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: KDDI Corporation*

**Discussion:**

Nokia didn’t agree with the wording.

Ericsson: not in the scope of this study.

Qualcomm: nothing to do with 256-btis, it’s about bidding down.

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

**S3-240571 New KI for CAT\_256 on correctly indication**

*Type: pCR For: (not specified)  
 33.700-41 v0.0.1  
 Source: Apple*

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

**S3-240470 New Key Issue on different length of cryptographic key in EPS and 5GS interworking**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: ZTE Corporation*

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

**S3-240493 Solution on transitions to 256 bit algorithms**

*Type: pCR For: Approval  
 33.700-41 v0.0.1  
 Source: Huawei, HiSilicon*

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

**S3-240572 New solution for CAT\_256 on correctly indication**

*Type: pCR For: (not specified)  
 33.700-41 v0.0.1  
 Source: Apple*

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

**S3-240574 New solution for CAT\_256 on Flexibility to adjust the preference on security algorithms**

*Type: pCR For: (not specified)  
 33.700-41 v0.0.1  
 Source: Apple*

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

**S3-241010 Draft TR 33.700-41**

*Type: draft TR For: Approval  
 33.700-41 v0.1.0  
 Source: KDDI*

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

### 5.6 New Study on mitigations against bidding down attacks

**S3-240548 Skeleton for TR 33.701 - Study on mitigations against bidding down attacks**

*Type: draft TR For: Approval  
 33.701 v0.0.0  
 Source: Huawei Technologies Sweden AB*

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

**S3-240536 Draft TR 33.701 scope**

*Type: pCR For: Approval  
 33.701 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240569 key issue on decommissioning 2G/3G**

*Type: pCR For: (not specified)  
 33.701 v0.0.1  
 Source: Apple*

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

**S3-240642 New KI - for mitigations against Bidding Down Attacks**

*Type: pCR For: Approval  
 33.701 v0.0.0  
 Source: Ericsson*

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

**S3-240699 Key issue on 2G or 3G bidding down attack**

*Type: pCR For: Approval  
 33.701 v0.0.1  
 Source: Samsung*

**Decision:** The document was **revised to S3-240919**.

**S3-240919 Key issue on 2G or 3G bidding down attack**

*Type: pCR For: Approval  
 33.701 v0.0.1  
 Source: Samsung*

(Replaces S3-240699)

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

**S3-240786 New KI on Mitigating attack of 2G3G false base station in decommissioning scenarios**

*Type: pCR For: Approval  
 33.701 v0.0.0  
 Source: Xiaomi Communications*

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

**S3-240515 New KI on bidding down attack in case of decommissioning of 3G and 2G networks**

*Type: pCR For: Approval  
 33.701 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240570 solution on decommissioning 2G/3G**

*Type: pCR For: (not specified)  
 33.701 v0.0.1  
 Source: Apple*

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

**S3-240928 Draft TR 33.701**

*Type: draft TR For: Approval  
 33.701 v0.1.0  
 Source: Huawei*

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

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

**S3-240626 Draft skeleton of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT*

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

**S3-240640 Scope of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT, Nokia*

**Decision:** The document was **revised to S3-240931**.

**S3-240931 Scope of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT, Nokia*

(Replaces S3-240640)

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

**S3-240398 Comments to Scope of TR 33.700-29**

*Type: other For: Approval  
 33.700-29 v..  
 Source: InterDigital, Inc.*

**Abstract:**

The newly-added EN is replaced with the following text in a new Bullet Item #4:

The impact on regulatory services in the context of 5G satellite access has to be studied. In particular, the assessment of the potential impact to lawful intercept in regener

**Discussion:**

Huawei: leave the editor's note. There may be no work for us.

MCC: it needs rewording since the way is written still reads like an editor's note.Just remove "has to be studied" and "wil require coordination with SA3-LI".

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

**S3-240466 Add some terms and abbreviations to TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: ZTE Corporation*

**Discussion:**

KPN: we are not using these terms.

Ericsson: we are already referring to the SA2 TR, no need to copy the terms here.

**Decision:** The document was **revised to S3-240932**.

**S3-240932 Add some terms and abbreviations to TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: ZTE Corporation*

(Replaces S3-240466)

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

**S3-240441 Architecture and security assumptions of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: China Telecomunication Corp.*

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

**S3-240605 Architecture and security assumptions of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Ericsson*

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

**S3-240643 pCR to TR33.700-29 Architecture and security assumptions**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT*

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

**S3-240657 Architectural Assumptions for security aspects of satellite access phase 2**

*Type: pCR For: Approval  
 33.700-29 v0.0.1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240780 Security assumptions of 5G satellite access phase 3**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

**Discussion:**

Ericsson: we cannot have assumption on the physical environment.

**Decision:** The document was **revised to S3-240933**.

**S3-240933 Security assumptions of 5G satellite access phase 3**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-240780)

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

**S3-240442 Key issues of TR 33.700-29**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: China Telecomunication Corp.*

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

**S3-240467 New KI on UE authentication under Store and Forward Satellite operation mode**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: ZTE Corporation*

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

**S3-240478 New KI on Protection of Store and Forward Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: OPPO*

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

**S3-240623 Security and Privacy Aspects of Store and Forward (S&F) Satellite Operation**

*Type: pCR For: (not specified)  
 33.700-29 v0.0.0  
 Source: Intel Technology Poland SP Zoo*

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

**S3-240646 pCR to TR33.700-29 New key issue for authentication and authorization in S&F Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT*

**Decision:** The document was **revised to S3-240934**.

**S3-240934 pCR to TR33.700-29 New key issue for authentication and authorization in S&F Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT, China Telecomunication Corp., ZTE Corporation, OPPO, Intel Technology Poland SP Zoo, Samsung, Beijing Xiaomi Mobile Software, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-240646)

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

**S3-240700 Key Issue on security mechanisms to authenticate and authorize a UE for the Store & Forward Satellite operation**

*Type: pCR For: Approval  
 33.700-29 v0.0.1  
 Source: Samsung*

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

**S3-240781 Key issue for Security for S&F satellite operation**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-240807 Key issue on primary authentication of store and forward packet issue**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240645 pCR to TR33.700-29 New key issue for data communication security in S&F Satellite Operation**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: CATT*

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

**S3-240808 Key issue on MT and MO store and forward packet issue**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240701 Key issue on isolation of keys in S&F operating mode**

*Type: pCR For: Approval  
 33.700-29 v0.0.1  
 Source: Samsung*

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

**S3-240603 New KI - authentication in Store & Forward**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Ericsson*

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

**S3-240702 Key issue on protection of partial attach and registration accept message**

*Type: pCR For: Approval  
 33.700-29 v0.0.1  
 Source: Samsung*

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

**S3-240810 Key issue on security and privacy aspects of emergency reporting during S&F operations**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240348 New KI - Security of UE-satellite-UE communication**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Philips International B.V.*

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

**S3-240349 New KI - Authorization in UE-satellite-UE communication scenario**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Philips International B.V.*

**Discussion:**

Interdigital: Threats not connnected with the requirement.

Huawei didn’t agree with the threat and requirement.

Xiaomi didn’t agree with this.

Ericsson: I don’t agree with this. It is not about impersonating satellite.

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

**S3-240606 Potential security and lawful intercept challenges in IMS based telephony for UE-satellite-UE**

*Type: discussion For: Endorsement  
 33.700-29 v..  
 Source: Ericsson*

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

**S3-240777 New KI - UE-Satellite-UE communication**

*Type: pCR For: Approval  
 33.700-29 v0.0.1  
 Source: Lenovo*

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

**S3-240809 Key issue on secured information exchange at satellite level(UE-SAT-UE)**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, Philips International B.V., Lenovo, InterDigital Inc*

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

**S3-240598 New KI - security of backhaul communication over feeder link in generic regenerative mode**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Ericsson*

**Discussion:**

There were queries on the need to contact SA2 before going ahead with this key issue.

It was agreed to send an LS to SA2.

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

**S3-240600 New KI - security of communication over inter satellite link**

*Type: pCR For: Approval  
 33.700-29 v0.0.0  
 Source: Ericsson*

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

**S3-240806 Add Access Authentication Security Threats to TR 33.700-29 Study on Security and Privacy Aspects of 5G Satellite Access Phase 3**

*Type: pCR For: Discussion  
 33.700-29 v0.0.0  
 Source: China Mobile Com. Corporation*

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

**S3-240930 Draft TR 33.700-29**

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

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

**S3-240950 LS on security of IP transport over satellite transport links**

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

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

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

**S3-240315 Draft 33.702 Study on Security for mobility over non-3GPP access to avoid full primary authentication**

*Type: draft TR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240358 Security assumption**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

**Decision:** The document was **revised to S3-240920**.

**S3-240920 Security assumption**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

(Replaces S3-240358)

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

**S3-240360 KI for UE connecting to the new TNAP**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

**Decision:** The document was **revised to S3-240921**.

**S3-240921 KI for UE connecting to the new TNAP**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

(Replaces S3-240360)

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

**S3-240516 New KI on TNGF mobility**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240773 New key issue of UE connecting TNAP**

*Type: pCR For: Approval  
 33.702 v0.0.1  
 Source: LG Electronics*

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

**S3-240361 KI on AUN3 device connecting to the new 5G-RG**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

**Decision:** The document was **revised to S3-240922**.

**S3-240922 KI on AUN3 device connecting to the new 5G-RG**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

(Replaces S3-240361)

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

**S3-240520 New KI on AUN3 case**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240772 New key issue of AUN3 device**

*Type: pCR For: Approval  
 33.702 v0.0.1  
 Source: LG Electronics*

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

**S3-240362 KI on N5CW device connecting to the new TWAP**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

**Decision:** The document was **revised to S3-240923**.

**S3-240923 KI on N5CW device connecting to the new TWAP**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

(Replaces S3-240362)

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

**S3-240771 New key issue of N5CW device**

*Type: pCR For: Approval  
 33.702 v0.0.1  
 Source: LG Electronics*

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

**S3-240363 KI on UE connecting to the new WLAN AP under the same NSWOF**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

**Decision:** The document was **revised to S3-240924**.

**S3-240924 KI on UE connecting to the new WLAN AP under the same NSWOF**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

(Replaces S3-240363)

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

**S3-240519 New KI on NSWO case**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240359 Scope**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

**Decision:** The document was **revised to S3-240925**.

**S3-240925 Scope**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell,CableLabs*

(Replaces S3-240359)

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

**S3-240364 copying solutions back to this TR from previous TR**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240517 New solution on TNGF mobility**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240926**.

**S3-240926 New solution on TNGF mobility**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-240517)

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

**S3-240518 conclusion on TNGF mobility**

*Type: pCR For: Approval  
 33.702 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-240927 Draft TR 33.702**

*Type: draft TR For: Approval  
 33.702 v0.1.0  
 Source: Nokia*

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

## 6 New Study/Work item proposals

**S3-240357 New WID on AKMA service disabling**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, NDRE*

**Decision:** The document was **revised to S3-241040**.

**S3-241040 New WID on AKMA service disabling**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, NDRE*

(Replaces S3-240357)

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

**S3-240417 Dummy WID for R19 Home control for NSAC procedures**

*Type: WID new For: Agreement  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE*

**Discussion:**

Ericsson: we didn’t see a need for the normative work during the study, so we don’t agree with this.

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

**S3-240418 Home control for Network Slice Admission Control procedures**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1905 Cat: B (Rel-19)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE*

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

**S3-240529 R19 SCAS WID**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

NTT-Docomo commmented that the term Phase 4 was not really correct as this was not introducing new features but used as a maintenance tool. Maybe another name could be found.

MITRE: third objective is too specific.

Huawei: make work as stable as possible, don’t keep bringing tests by the end of the Release.We prefer to keep SCAS work similar to stage 2 work deadlines.

NTT-Docomo: exception for the WID to address NESAS and EC comments for Rel-18?

Huawei: best effort basis, not all features will have test cases because this is company driven.

Ericsson: come back to this WID after we are done with Rel-18?

**Decision:** The document was **revised to S3-240951**.

**S3-240951 R19 SCAS WID**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-240529)

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

**S3-240581 New WID\_Automated additions of root CAs certificates using CMP**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240953 New WID\_Automated additions of root CAs certificates using CMP**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240582 Automated additions of root CAs certificates using CMP**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0198 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-240954**.

**S3-240954 Automated additions of root CAs certificates using CMP**

*Type: CR For: Agreement  
 33.310 v18.2.0 CR-0198 rev 1 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-240582)

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

**S3-240592 New WID on Certificate bound access token in SBA**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: WID is not needed. Ericsson agreed that this was not needed, the RFC may not be applicable here.

CableLabs: bring a CR instead, the change is very small.

Nokia: we need to receive the feedback on whether we need this security enhancement.

NTT-Docomo: we need clear understanding on whether this is needed in roaming or not.

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

**S3-240630 New WID on specification of new f5 function**

*Type: WID new For: Agreement  
 Source: Ericsson*

**Discussion:**

Ericsson commented that this was not mandating the use of f5\*\*, just specifying it. It is decision of the operator to implement it or not.

Huawei queried why there was a TR. Ericsson commented that this was done before, the security analysis was always captured in a TR.

Apple: we should evaluate the SAGE documents before specifying them.

IDEMIA: support this WID, but why creating a new specification instead of reusing existent ones?

Huawei: extend the other MILENAGE WID to include this.

IDEMIA didn’t support this, because the other WID was MILENAGE 256 and this was 128.

Apple: having a TR and a TS in this WID? MCC commented that the TR was not a study so it was OK.

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

**S3-240691 5G Security Assurance Specification (SCAS) for the Cloud Native Products (CNP)**

*Type: WID new For: Agreement  
 Source: Ericsson*

**Abstract:**

Develop Cloud Native network products specific test cases

**Discussion:**

Nokia: what is cloud native? We need to define this in Rel-19 and then we can create a SCAS for it.

Huawei agreed that CNP didn’t have a definition in 3GPP.

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

**S3-240811 New WID on security aspects of the 5GMSG Service phase 3**

*Type: WID new For: Approval  
 Source: China Mobile*

(Replaces S3-240713)

**Decision:** The document was **revised to S3-240952**.

**S3-240952 New WID on security aspects of the 5GMSG Service phase 3**

*Type: WID new For: Approval  
 Source: China Mobile*

(Replaces S3-240811)

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

**S3-240296 Study on Security Aspect of Ambient IoT Services in 5G**

*Type: SID new For: Approval  
 Source: OPPO, Apple, BUPT, Cable Labs, CATR, CATT, China Mobile, China Telecom, China Unicom, HiSilicon, Huawei, Intel, Inter Digital, KPN, Lenovo, Philips International B.V., Samsung, T-Mobile USA, Verizon, Vivo, Xiaomi, Xidian University, ZTE*

**Decision:** The document was **revised to S3-240955**.

**S3-240955 Study on Security Aspect of Ambient IoT Services in 5G**

*Type: SID new For: Approval  
 Source: OPPO, Apple, BUPT, Cable Labs, CATR, CATT, China Mobile, China Telecom, China Unicom, HiSilicon, Huawei, Intel, Inter Digital, KPN, Lenovo, Philips International B.V., Samsung, T-Mobile USA, Verizon, Vivo, Xiaomi, Xidian University, ZTE*

(Replaces S3-240296)

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

**S3-240297 draft skeleton for AIoT security**

*Type: other For: Information  
 Source: OPPO*

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

**S3-240491 Discussion on Security Aspects on Ambient IoT**

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

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

**S3-240391 New SID on security aspects of Usage of User Identities**

*Type: SID new For: Approval  
 Source: InterDigital Belgium. LLC*

**Decision:** The document was **revised to S3-240957**.

**S3-240957 New SID on security aspects of Usage of User Identities**

*Type: SID new For: Approval  
 Source: InterDigital Belgium. LLC*

(Replaces S3-240391)

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

**S3-240421 Discussions for R19 UAS security**

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

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

**S3-240422 R19 SID on UAS security enhancement**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

MITRE, Nokia: objective 1 was already discussed in Chicago. Nokia didn’t see a security issue in WT2.

**Decision:** The document was **revised to S3-240967**.

**S3-240967 R19 SID on UAS security enhancement**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-240422)

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

**S3-240439 New SID on Study on Security and Privacy Aspects of Enhancement for Proximity based Services in 5GS - Phase 3**

*Type: SID new For: Approval  
 Source: China Telecomunication Corp.*

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

**S3-240507 New SID on Security Aspects of System Enhancement for Proximity-based Services in 5GS - Phase 3**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-240565 New SID on Security Aspects of Proximity based Services in 5GS Phase 3**

*Type: SID new For: Approval  
 Source: China Unicom*

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

**S3-240508 Discussion about study on Security Aspects of ProSe - Phase 3**

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

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

**S3-240624 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3**

*Type: SID new For: Approval  
 Source: CATT*

**Decision:** The document was **revised to S3-240968**.

**S3-240968 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3**

*Type: SID new For: Approval  
 Source: CATT*

(Replaces S3-240624)

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

**S3-240476 Discussion Paper on Study on security aspects of Core Network Enhanced Support for AIML**

*Type: discussion For: Endorsement  
 Source: vivo, China Mobile*

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

**S3-240710 New SID on Study on security aspects of AIML enhancements**

*Type: SID new For: Approval  
 Source: China Mobile, vivo*

**Decision:** The document was **revised to S3-240969**.

**S3-240969 New SID on Study on security aspects of AIML enhancements**

*Type: SID new For: Approval  
 Source: China Mobile, vivo*

(Replaces S3-240710)

**Discussion:**

It was commented that this depended on the CR in 911. That CR was not pursued, so WT3 would include the issue in the CR. It was suggested to remove WT3 so Plenary would decide whether to include it.

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

**S3-240812 Comments to S3-240710 New SID on Study on security aspects of Core Network Enhanced Support for AIML**

*Type: other For: Endorsement  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution provides to S3-240710 New SID on Study on security aspects of Core Network Enhanced Support for AIML.

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

**S3-240552 New\_SID\_EdgeComputing**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-240970**.

**S3-240970 New\_SID\_EdgeComputing**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-240552)

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

**S3-240576 New SID on security aspects for Multi-Access**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo, Charter, Intel*

**Discussion:**

Huawei didn’t agree with WT1 and asked to reword WT2.They didn’t find WT3 needed either.

**Decision:** The document was **revised to S3-240971**.

**S3-240971 New SID on security aspects for Multi-Access**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo, Charter, Intel*

(Replaces S3-240576)

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

**S3-240805 Discussion on MPQUIC security performance aspects for MASSS**

*Type: discussion For: Endorsement  
 Source: Lenovo*

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

**S3-240652 New SID on 5GS enhancements for Energy Saving**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, OPPO, Telecom Italia*

**Decision:** The document was **revised to S3-240972**.

**S3-240972 New SID on 5GS enhancements for Energy Saving**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, OPPO, Telecom Italia*

(Replaces S3-240652)

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

**S3-240690 New SID on Security aspects of 5G NR Femto**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Samsung, AT&T, Charter*

**Decision:** The document was **revised to S3-240973**.

**S3-240973 New SID on Security aspects of 5G NR Femto**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, Verizon, Samsung, AT&T, Charter*

(Replaces S3-240690)

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

**S3-240703 New SID on security aspects of 5G Mobile Metaverse services**

*Type: SID new For: Approval  
 Source: Samsung, Nokia, Nokia Shanghai Bell, IIT Delhi, Lenovo, OPPO*

**Discussion:**

NTT-Docomo: the TUs are not realistic with the amount of work needed.

**Decision:** The document was **revised to S3-240974**.

**S3-240974 New SID on security aspects of 5G Mobile Metaverse services**

*Type: SID new For: Approval  
 Source: Samsung, Nokia, Nokia Shanghai Bell, IIT Delhi, Lenovo, OPPO*

(Replaces S3-240703)

**Discussion:**

NTT\_Docomo: this has a massive impact on identification structure and there is no obvious way forward, not clear that we will even finish this in 6G.

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

**S3-240704 Study on security aspects of CAPIF Phase 3**

*Type: SID new For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to S3-240975**.

**S3-240975 Study on security aspects of CAPIF Phase 3**

*Type: SID new For: Approval  
 Source: Samsung*

(Replaces S3-240704)

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

**S3-240601 CAPIF - DP Security concerns on onboarding information**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanhai Bell*

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

**S3-240705 New SID on security aspects NR mobility enhancement**

*Type: SID new For: Approval  
 Source: Samsung*

**Discussion:**

Apple: not needed. RAN work may have security issues before the study is done. The work can be done through LS.

The Chair commented that the work needed to be captured properly.

**Decision:** The document was **revised to S3-241041**.

**S3-241041 New SID on security aspects NR mobility enhancement**

*Type: SID new For: Approval  
 Source: Samsung*

(Replaces S3-240705)

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

**S3-240591 Discussion paper on EU ID security**

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

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

**S3-240709 New SID on security management service**

*Type: SID new For: Approval  
 Source: China Mobile, ZTE, Nokia, Nokia Shanghai Bell, CATT, CableLabs, China Telecom*

**Discussion:**

NTTG\_Docomo: objectives need to be rewritten.

Ericsson: not clear what the outcome is.

Huawei: management is not in our scope. We would need to colaborate with SA5.

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

**S3-240711 Discussion on security for XR**

*Type: discussion For: Discussion  
 Source: China Mobile*

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

**S3-240712 New SID on security for XR services**

*Type: SID new For: Approval  
 Source: China Mobile*

**Discussion:**

Ericsson: postpone until SA2 has progressed their work.

NTT-Docomo: this looks like management time of LS that will come from other groups, nothing major.

CableLabs supported this.

The Chair commented that creating dummy TRs could cause overload and unproductive discussions, but from 3GPP tracking point of view there is a need for identification of the work and a proper procedure to follow. Past work has been done under work items that don’t allow any tracking of the work (e.g. TEIx). Non-SA3 companies cannot find out where the work is done.

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

**S3-240766 Discussion of Revised SID on enablers for Zero Trust Security**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-240765 Revised SID on enablers for Zero Trust Security**

*Type: SID revised For: Agreement  
 Source: Ericsson, AT&T, Johns Hopkins University APL, MITRE, T-Mobile, US National Security Agency*

**Discussion:**

Huawei, Nokia didn’t agree with this revised SID.

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

**S3-240419 Discussions for R19 security enhancement of network slicing**

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

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

**S3-240420 R19 SID on security enhancement of network slicng**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon, Deutsche Telekom*

**Discussion:**

Ericsson: WT3 is based on SA2 work?

Huawei: there is a TEI19 WID related to WT3.

The Chair commented that definitely three studies would not be able to be performed in SA3, there had to be a merge or choose just one.

AT&T: let's move on to SA2 priorities.

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

**S3-240612 discussion on resource isolation for 5G network slice**

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

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

**S3-240613 new SID on resource isolation for 5G network slice**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: use cases are not clear.

Motorola solutions: there are 3 network slicing proposals, let's merge them all.

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

**S3-240813 New SID: end-to-end slice data protection**

*Type: SID new For: Approval  
 Source: THALES*

**Abstract:**

New SID on end-to-end slice data protection

**Discussion:**

CableLabs: we lack of specific requirements, the Nokia study would help.

NTT-Docomo: clarifiy what "ends" are.

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

**S3-240447 New SID on the evolvement of PRINS to better support roaming intermediaries**

*Type: SID new For: Agreement  
 Source: CableLabs*

**Discussion:**

Verizon: nothing that needs to be studied here.

Nokia: there is no evolution from PRINS to hop-by-hop TLS. What’s the risk of choosing hop-by-hop TLS instead of end to end PRINS? We would need a CR or discussion paper on this.

NTT-Docomo: we miss the data plane protection, it should be added here but there is no way to do this in Rel-18.

CableLabs: hop-by-hop TLS and PRINS are not mutually exclusive.

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

**S3-240489 Discussion on Security Enhancement for NEF**

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

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

**S3-240490 New SID on 5G Security Enhancement for NEF**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

A merge with 704 was discussed.

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

**S3-240680 Study on NRF public key retrieval by NF Service Producers**

*Type: SID new For: Agreement  
 Source: Ericsson, Deutsche Telekom*

**Discussion:**

Nokia supported this study. The study was noted due to the lack of time budget.

The work will be handled with TEI19 CRs.

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

**S3-240614 Revision of Rel19 NG\_RTC\_SEC\_Ph2 SID**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-240641 Revised SID on Study on Security Aspects of 5G Satellite Access Phase 3**

*Type: SID revised For: Agreement  
 Source: CATT*

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

**S3-240713 New SID on security aspects of the 5GMSG Service phase 3**

*Type: SID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-240811**.

**S3-240764 Revised SID on the security support for the Next Generation Real Time Communication services Phase 2**

*Type: SID revised For: Agreement  
 Source: Ericsson, China Mobile*

**Decision:** The document was **revised to S3-240988**.

**S3-240988 Revised SID on the security support for the Next Generation Real Time Communication services Phase 2**

*Type: SID revised For: Agreement  
 Source: Ericsson, China Mobile,Nokia, Nokia Shanghai Bell*

(Replaces S3-240764)

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

## 7 CVD and research

**S3-240225 CVD-2023-0079 - Lack of GPRS IOV randomisation**

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

**Decision:** The document was **replied to in S3-240892**.

**S3-240758 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: Agreement  
 43.020 v8.1.0 CR-0085 Cat: F (Rel-8)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240956**.

**S3-240956 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: Agreement  
 43.020 v8.1.0 CR-0085 rev 1 Cat: F (Rel-8)  
  
 Source: Ericsson,Nokia,Nokia Shanghai Bell*

(Replaces S3-240758)

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

**S3-240759 Reply LS on CVD-2023-0079 – Lack of GPRS IOV randomisation**

*Type: LS out For: Approval  
 to GSMA CVD PoE, cc CT1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240892**.

**S3-240892 Reply LS on CVD-2023-0079 – Lack of GPRS IOV randomisation**

*Type: LS out For: Approval  
 to GSMA CVD PoE, cc CT1  
 Source: Ericsson*

(Replaces S3-240759)

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

**S3-240259 CVD-2023-0075 - Certificate validation on IMS access interface**

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

**Decision:** The document was **replied to in S3-240894**.

**S3-240440 Reply LS to GMSA on CVD-2023-0075 – Certificate validation on IMS access interface**

*Type: LS out For: Approval  
 to GSMA CVD PoE, cc GSMA NG, GSMA FASG  
 Source: CableLabs*

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

**S3-240687 LS on GSMA CVD-2023-0075 – Certificate validation on IMS access interface**

*Type: LS out For: Approval  
 to GSMA, CT1, cc CT4  
 Source: Ericsson*

**Decision:** The document was **revised to S3-240894**.

**S3-240894 LS on GSMA CVD-2023-0075 – Certificate validation on IMS access interface**

*Type: LS out For: Approval  
 to GSMA CVD PoE, CT1, cc GSMA NG, GSMA FASG  
 Source: Ericsson*

(Replaces S3-240687)

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

**S3-240686 Certificate validation on IMS access interface**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0279 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

Quacomm: not worth going beyond Rel-18 for this.

Samsung: only Rel-18.

**Decision:** The document was **revised to S3-240893**.

**S3-240893 Certificate validation on IMS access interface**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0279 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson;CableLabs*

(Replaces S3-240686)

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

**S3-240443 Validate FQDN of P-CSCF against the subjectAltName field in its server certificate**

*Type: CR For: Agreement  
 33.203 v15.3.0 CR-0275 Cat: F (Rel-15)  
  
 Source: CableLabs*

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

**S3-240444 Validate FQDN of P-CSCF against the subjectAltName field in its server certificate**

*Type: CR For: Agreement  
 33.203 v16.1.0 CR-0276 Cat: A (Rel-16)  
  
 Source: CableLabs*

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

**S3-240445 Validate FQDN of P-CSCF against the subjectAltName field in its server certificate**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0277 Cat: A (Rel-17)  
  
 Source: CableLabs*

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

**S3-240260 CVD-2023-0069 - 5G Core Network Attacks**

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

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

**S3-240685 LS on GSMA CVD-2023-0069 - 5G Core Network Attacks**

*Type: LS out For: Approval  
 to GSMA CVD PoE, 3GPP CT4  
 Source: Ericsson*

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

**S3-240434 LS-reply to GSMA on CVD-2023-0069 5G Core Network Attacks**

*Type: LS out For: Approval  
 to GSMA CVD, cc CT4  
 Source: Huawei, HiSilicon*

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

**S3-240435 Clarification on SBI service request procedures**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1906 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-240436 Clarification on SBI service request procedures**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1907 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-240437 Clarification on SBI token**

*Type: CR For: Agreement  
 33.501 v17.12.0 CR-1908 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-240438 Clarification on SBI token**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1909 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-240617 CVD-0069 Cross check on NF discovery request**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1890 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234870)

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

**S3-240681 Validation of the allowed slices in the access token request at NRF**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1957 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

China Mobile only agreed with the note, not the rest of the changes.

**Decision:** The document was **revised to S3-240895**.

**S3-240895 Validation of the allowed slices in the access token request at NRF**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1957 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-240681)

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

**S3-240682 Validation of the requested slices at NF service producer**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1958 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240683 Support iat claim in the access token**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1959 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240684 Clarification of security requirement on NF Discovery response**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1960 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-240618 CVD-0069 Condition of including allowed sNSSAIs in access token**

*Type: CR For: Agreement  
 33.501 v18.4.0 CR-1891 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234871)

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

**S3-240958 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v9.3.0 CR-0086 Cat: A (Rel-9)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240959 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v10.3.0 CR-0087 Cat: A (Rel-10)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240960 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v11.5.0 CR-0088 Cat: A (Rel-11)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240961 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v12.3.0 CR-0089 Cat: A (Rel-12)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240962 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v13.8.0 CR-0090 Cat: A (Rel-13)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240963 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v14.5.0 CR-0091 Cat: A (Rel-14)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240964 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v15.2.0 CR-0092 Cat: A (Rel-15)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240965 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v16.1.0 CR-0093 Cat: A (Rel-16)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

**S3-240966 Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm**

*Type: CR For: discussion  
 43.020 v17.0.0 CR-0094 Cat: A (Rel-17)  
  
 Source: Ericsson,Nokia, Nokia Shanghai Bell*

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

## 8 Any Other Business

The Chair thanked all delegates and MCC for the hard work during the week. After this, the meeting was closed.

**S3-240205 SA3 meeting calendar**

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

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

**S3-240935 Cover sheet Draft TS 33.520**

*Type: TS or TR cover For: Approval  
 33.520 v..  
 Source: China Unicom*

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-240200 | Agenda | SA WG3 Chair | approved |  |  |
| S3-240201 | Report from SA3#114e-AdHoc | MCC | approved |  |  |
| S3-240202 | Report from SA3#113 | MCC | revised |  | S3-240826 |
| S3-240203 | Process for SA3#115 | SA WG3 Chair | noted |  |  |
| S3-240204 | Detailed agenda planning for SA3#115 | SA WG3 Chair | revised |  | S3-240827 |
| S3-240205 | SA3 meeting calendar | SA WG3 Chair | noted |  |  |
| S3-240206 | Report to SA3 from SA | SA WG3 Chair | noted |  |  |
| S3-240207 | Proposed skeleton for TR 33.776 Study of Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA) | Cisco Systems | approved |  | - |
| S3-240208 | Elaborated LS reply to S3-234350 on Roaming Hub requirements as applicable to the Modified PRINS solution | GSMA | replied to |  |  |
| S3-240209 | Elaborated LS reply to S3-234350 on IPX Service Hub requirements as applicable to the Modified PRINS solution | GSMA | replied to |  |  |
| S3-240210 | LS to 3GPP CT4 on in-path and in-query parameters | GSMA | noted |  |  |
| S3-240211 | LS on nested JSON structures and reply to LS S3-235067 | GSMA | noted |  |  |
| S3-240212 | LS to 3GPP on data plane control by roaming hubs | GSMA | noted |  |  |
| S3-240213 | LS to 3GPP on PRINS security profiles | GSMA | noted |  |  |
| S3-240214 | LS on service authorization for/to partner MC system | C1-239502 | replied to |  |  |
| S3-240215 | LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | C3-235567 | replied to |  |  |
| S3-240216 | LS on Authorization of NF service consumer for data collection via DCCF | C3-235594 | replied to |  |  |
| S3-240217 | Reply LS on CAPIF extensibility | C3-235619 | noted |  |  |
| S3-240218 | Reply LS on CAPIF extensibility | C3-240155 | noted |  |  |
| S3-240219 | Reply LS on Decorated NAI format for 5G-NSWO for SNPN Scenarios | C4-235479 | noted |  |  |
| S3-240220 | LS on clarification on home network triggered re-authentication | C4-235577 | postponed |  |  |
| S3-240221 | Reply LS on N32 Race conditions and recovery | C4-235586 | noted |  |  |
| S3-240222 | Reply LS on including Source and Destination Interface Type for Indirect DL Data Forwarding Tunnel related N4 requests | C4-235681 | noted |  |  |
| S3-240223 | Quantum Safe Cryptographic Protocol Inventory | ETSI TC CYBER | postponed |  |  |
| S3-240224 | LS from TSG IMSDCAS to 3GPP SA3 on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply | GSMA | replied to |  |  |
| S3-240225 | CVD-2023-0079 - Lack of GPRS IOV randomisation | GSMA | replied to |  |  |
| S3-240226 | Comments from ETSI TC CYBER on GSMA Solutions for Monitoring of Encrypted 5GS Signaling Traffic | ETSI TC CYBER | noted |  |  |
| S3-240227 | LSout on ""Certificate Management"" | ETSI ISG NFV | replied to |  |  |
| S3-240228 | Response LS to 3GPP CT3 on CAPIF extensibility | ETSI ISG MEC | noted |  |  |
| S3-240229 | LS to 3GPP SA3 re Definition of Term ‘Network Product Class’ | GSMA | replied to |  |  |
| S3-240230 | LS reply on LS on MSISDN exposure to trusted AF | GSMA | noted |  |  |
| S3-240231 | Reply LS on the user consent for trace reporting | R3-237964 | noted |  |  |
| S3-240232 | Support for MCE ID | R3-238003 | noted |  |  |
| S3-240233 | Reply LS on Clarification on Removal of the Indicator of UUAA result from AMF | S2-2309697 | noted |  |  |
| S3-240234 | Clarification related to reliable location | S2-2309698 | postponed |  |  |
| S3-240235 | LS on MSISDN exposure to trusted AF | S2-2311893 | replied to |  |  |
| S3-240236 | LS on Ranging/SL Positioning service exposure security and privacy check | S2-2313776 | replied to |  |  |
| S3-240237 | Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | S2-2313777 | noted |  |  |
| S3-240238 | Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | S2-2313793 | replied to |  |  |
| S3-240239 | Reply LS on L2ID and User Info for L2 based U2U | S2-2313796 | noted |  |  |
| S3-240240 | Reply LS on Trigger for secure user plane establishment via user plane | S2-2313809 | noted |  |  |
| S3-240241 | LS to RAN2/CT WGs on RAN&CT alignment issues | S2-2313889 | noted |  |  |
| S3-240242 | Reply LS on the user consent for trace reporting | S2-2401578 | noted |  |  |
| S3-240243 | Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | S2-2401584 | noted |  |  |
| S3-240244 | Reply LS on uniqueness of ProSe U2N RSC | S2-2401587 | noted |  |  |
| S3-240245 | LS on limited MSISDN exposure | S2-2401649 | replied to |  |  |
| S3-240246 | Reply LS on security aspects for Ranging/Sidelink Positioning | S2-2401651 | noted |  |  |
| S3-240247 | Reply LS on MDT for NPN | S5-238101 | noted |  |  |
| S3-240248 | Reply LS on user consent for SON/MDT for NB-IoT UEs | S5-238102 | noted |  |  |
| S3-240249 | Reply LS to LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic | S5-238140 | noted |  |  |
| S3-240250 | LS on clarifications regarding RNAA | S6-233770 | noted |  |  |
| S3-240251 | LS on evaluating security aspects for MC services over MC gateway UE | S6-233821 | replied to |  |  |
| S3-240252 | SAGE-23-02 Resynchronisation protection f5\*\* for MILENAGE-128 and Tuak. | ETSI SAGE | noted |  |  |
| S3-240253 | Reply LS to GSMA on Monitoring of Encrypted 5GS Signalling Traffic | SP-231668 | noted |  |  |
| S3-240254 | LS on Prohibition of GEA1 & GEA2 Support in all releases | SP-231782 | noted |  |  |
| S3-240255 | LS from NG to 3GPP SA3-LI on Lawful Interception of IMS Data Channel | GSMA | noted |  |  |
| S3-240256 | LS reply to S3-233786 and S3-234296 on the introduction of the domain ""ipxnetwork.org"" and clarifications of the Outsourced SEPP and Hosted SEPP deployment scenarios | GSMA | replied to |  |  |
| S3-240257 | LS on AKMA service restrictions in Rel-17 | C3-232563 | replied to |  |  |
| S3-240258 | LS on Removal of the uavAuthenticated IE from Create SM Context Request | C4-230790 | replied to |  |  |
| S3-240259 | CVD-2023-0075 - Certificate validation on IMS access interface | GSMA | replied to |  |  |
| S3-240260 | CVD-2023-0069 - 5G Core Network Attacks | GSMA | postponed |  |  |
| S3-240261 | Non-Support of Ciphering Algorithm GEA2 | GCF | noted |  |  |
| S3-240262 | LIAISON STATEMENT ON AEAD mode of ZUC-256 Algorithm | CCSA | noted |  |  |
| S3-240263 | LS reply to GSMA NG/UPG on Lawful Interception of IMS Data Channel | s3i240070 | noted |  |  |
| S3-240264 | LS on AKMA service restrictions in roaming | s3i240084 | replied to |  |  |
| S3-240265 | LS regarding the publication of the Post Quantum Cryptography – Guidelines for Telecom Use Cases document in Feb 24 | GSMA | postponed |  |  |
| S3-240266 | Reply to LS on potential collaboration between 3GPP SA5 and ETSI SAI TC | S5-241079 | noted |  |  |
| S3-240267 | Reply to LS on 3GPP work on energy efficiency | S4-240517 | noted |  |  |
| S3-240268 | Coverpage for TS 35.240 Skeleton for the Snow 5G based 256-bit Algorithm | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-240269 | Introduction of the Snow 5G 256-bits implementers’ test data | Nokia, Nokia Shanghai Bell | approved | S3-234425 |  |
| S3-240270 | Introduction of the Snow 5G 256-bits design conformance test data | Nokia, Nokia Shanghai Bell | approved | S3-234426 |  |
| S3-240271 | Introduction of the AES 256-bits algorithm specification | Nokia, Nokia Shanghai Bell | approved | S3-234427 |  |
| S3-240272 | Introduction of the AES 256-bits implementers’ test data | Nokia, Nokia Shanghai Bell | approved | S3-234428 |  |
| S3-240273 | Introduction of the AES 256-bits design conformance test data | Nokia, Nokia Shanghai Bell | approved | S3-234429 |  |
| S3-240274 | Introduction of the ZUC based 256-bits algorithm specification | Nokia, Nokia Shanghai Bell | approved | S3-234430 |  |
| S3-240275 | Introduction of the ZUC 256-bits implementers’ test data | Nokia, Nokia Shanghai Bell | approved | S3-234431 |  |
| S3-240276 | Introduction of the ZUC 256-bits design conformance test data | Nokia, Nokia Shanghai Bell | approved | S3-234432 |  |
| S3-240277 | Technical provision to Snow 5G based 256-bit Algorithm Specification | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-240278 | Technical provision to Snow 5G based 256-bit Algorithm Implementation Test Data | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240279 | Technical provision to Snow 5G based 256-bit Algorithm Conformance Test Data | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240280 | Technical provision to AES based 256-bit Algorithm Specification | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240281 | Technical provision to AES based 256-bit Algorithm Implementation Test Data | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240282 | Technical provision to AES based 256-bit Algorithm Conformance Test Data | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240283 | Technical provision to ZUC based 256-bit Algorithm Specification | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-240284 | Technical provision to ZUC based 256-bit Algorithm Implementation Test Data | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-240285 | Technical provision to ZUC based 256-bit Algorithm Conformance Test Data | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-240286 | Updates on WID on Addition of 256-bit security Algorithms | Nokia, Nokia Shanghai Bell | revised |  | S3-240875 |
| S3-240287 | Presentation of Specification to TSG: TS 33.528, Version 1.0.0 | BSI (DE) | approved |  |  |
| S3-240288 | LS reply to S3-240256 on the introduction of the domain ""ipxnetwork.org"" | BSI (DE) | revised |  | S3-240886 |
| S3-240289 | Reply LS on Support for MCE ID | S5-240021 | noted |  |  |
| S3-240290 | Reply LS on the user consent for trace reporting | S5-241084 | noted |  |  |
| S3-240291 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE | revised |  | S3-240899 |
| S3-240292 | Technical Provision to ZUC based 256-bit algorithm specification | Huawei, HiSilicon, CATT | revised |  | S3-240594 |
| S3-240293 | Technical Provision to ZUC based 256-bit Algorithm Implementation Test Data | Huawei, HiSilicon, CATT | revised |  | S3-240595 |
| S3-240294 | Technical Provision to ZUC based 256-bit algorithm conformance test data | Huawei, HiSilicon, CATT | revised |  | S3-240596, S3-240597 |
| S3-240295 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | noted |  |  |
| S3-240296 | Study on Security Aspect of Ambient IoT Services in 5G | OPPO, Apple, BUPT, Cable Labs, CATR, CATT, China Mobile, China Telecom, China Unicom, HiSilicon, Huawei, Intel, Inter Digital, KPN, Lenovo, Philips International B.V., Samsung, T-Mobile USA, Verizon, Vivo, Xiaomi, Xidian University, ZTE | revised |  | S3-240955 |
| S3-240297 | draft skeleton for AIoT security | OPPO | noted |  |  |
| S3-240298 | Key issue on 256-bit algorithm adaptation in NAS procedures | Nokia, Nokia Shanghai Bell | merged |  | S3-240989 |
| S3-240299 | Key issue on 256-bit algorithm adaptation in AS procedures | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240300 | Key issue on Dynamic change of AKA parameters in Authentication procedures | Nokia, Nokia Shanghai Bell | not treated |  |  |
| S3-240301 | [33.180] MC gateway authentication and authorization | Motorola Solutions Germany | revised |  | S3-240861 |
| S3-240302 | GSMA review - Test Case on No Default Content | Nokia, Nokia Shanghai Bell, BSI | not pursued |  |  |
| S3-240303 | GSMA review - Test Case on No Directory Listings | Nokia, Nokia Shanghai Bell, BSI | not pursued |  |  |
| S3-240304 | GSM review - Test Case on No Web Server Header Info | Nokia, Nokia Shanghai Bell, BSI | not pursued |  |  |
| S3-240305 | GSMA review - Test Case on No Web Server Error Pages Info | Nokia, Nokia Shanghai Bell, BSI | not treated |  |  |
| S3-240306 | GSMA review - Test Case on No Web Server File Type Mappings | Nokia, Nokia Shanghai Bell | not treated |  |  |
| S3-240307 | Correcting range of values for IEs | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-240308 | draft Reply LS on the Term definition Network Product Class | Nokia, Nokia Shanghai Bell | merged |  | S3-240839 |
| S3-240309 | Introduction of the Snow 5G 256-bits algorithm specification | Nokia, Nokia Shanghai Bell | approved | S3-234424 |  |
| S3-240310 | Technical provision to Snow 5G based 256-bit Algorithm Specification | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240311 | Updates to Security for Selective SCG Activation | Nokia, Nokia Shanghai Bell | noted | S3-235100 |  |
| S3-240312 | Security Enhancement on selective SCG Activation | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240313 | AI from SA: Mapping modified PRINS CR to previous releases | SA3 Chair | endorsed |  |  |
| S3-240314 | Draft TR33.794 Skeleton | Lenovo | revised |  | S3-240896 |
| S3-240315 | Draft 33.702 Study on Security for mobility over non-3GPP access to avoid full primary authentication | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240316 | Introduction for TR 33.776 | Google Inc. | revised |  | S3-240983 |
| S3-240317 | Scope for TR 33.776 | Google Inc. | revised |  | S3-240987 |
| S3-240318 | Discussion of the protection mechanism of the permanent key leaving the UDR environment. | BSI (DE) | noted | S3-240025 |  |
| S3-240319 | Introduction for TR 33.700-41 | KDDI Corporation | noted |  |  |
| S3-240320 | Scope definition for TR 33.700-41 | KDDI Corporation | revised |  | S3-241008 |
| S3-240321 | Assumptions for TR 33.700-41 | KDDI Corporation | merged |  | S3-241009 |
| S3-240322 | New Key Issue on insufficient long-term key length for 256-bit security | KDDI Corporation, THALES | merged |  | S3-241022 |
| S3-240323 | New Key Issue on different cryptographic key lengths in dual connectivity | KDDI Corporation | noted |  |  |
| S3-240324 | New Key Issue on bid-down attacks during negotiation of cryptographic algorithms and key lengths | KDDI Corporation | noted |  |  |
| S3-240325 | New Key Issue on different cryptographic key lengths across AMF change and AMF reallocation | KDDI Corporation | noted |  |  |
| S3-240326 | New Key Issue on different cryptographic key lengths across handovers | KDDI Corporation | noted |  |  |
| S3-240327 | New Key Issue on different cryptographic key lengths on AS and NAS layer | KDDI Corporation | noted |  |  |
| S3-240328 | Alignment of service exposure via user plane authorization. | Sony, Philips International B.V. | not pursued |  |  |
| S3-240329 | Correction of UDM service naming | BSI (DE) | revised |  | S3-240857 |
| S3-240330 | Draft Skeleton for TR 33.700-41 | KDDI Corporation | approved |  |  |
| S3-240331 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | revised |  | S3-240649 |
| S3-240332 | Scope to TR 33.794 | Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell, Johns Hopkins University APL | revised |  | S3-240897 |
| S3-240333 | Introduction to TR 33.794 | Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240334 | Security Assumptions for TR 33.794 | Lenovo, Motorola Mobility, AT&T, Charter Communications, Johns Hopkins University APL | revised |  | S3-240898 |
| S3-240335 | Data related to Malformed Message | Lenovo, Motorola Mobility, AT&T, Charter Communications | revised |  | S3-240903 |
| S3-240336 | Data related to Massive number of Service Messages | Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell | revised |  | S3-240904 |
| S3-240337 | KI related to WT1 | Lenovo, Motorola Mobility, AT&T | revised |  | S3-241005 |
| S3-240338 | Usecase for security policy enforcement | Lenovo, Motorola Mobility, AT&T | revised |  | S3-241021 |
| S3-240339 | 5G ProSe UE-to-UE relay communication security | Philips International B.V. | not pursued |  |  |
| S3-240340 | Clause 6.1.3.2.3 - Clarification related to the direct discovery set | Philips International B.V. | revised |  | S3-241033 |
| S3-240341 | Clause 6.6.3.2 – Security procedures without network assitance check | Philips International B.V. | not pursued |  |  |
| S3-240342 | Update of local privacy check in clause 6.3.7 for Network-assisted procedure | Philips International B.V. | not pursued |  |  |
| S3-240343 | Update of local privacy check in clause 6.3.7 for client UE exposure | Philips International B.V. | merged |  | S3-240929 |
| S3-240344 | Clarification of local privacy check in clause 6.3.7 | Philips International B.V. | not pursued |  |  |
| S3-240345 | Update of local privacy check in clause 6.3.7 for server UE request | Philips International B.V. | not pursued |  |  |
| S3-240346 | Update of privacy check for exposure of location of Located UE by LMF | Philips International B.V. | not pursued |  |  |
| S3-240347 | New KI - Authorization in IMS Avatar communication | Philips International B.V. | merged |  | S3-240945 |
| S3-240348 | New KI - Security of UE-satellite-UE communication | Philips International B.V. | not treated |  |  |
| S3-240349 | New KI - Authorization in UE-satellite-UE communication scenario | Philips International B.V. | noted |  |  |
| S3-240350 | GSMA - Remove ambiguity from TC 4.4.2 | Keysight Technologies UK Ltd | revised |  | S3-240869 |
| S3-240351 | Reply LS on Clarification related to reliable location | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240352 | Discussion paper of UPU implementation gaps | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240353 | Enhancement in UPU procedure to protect UPU header | Nokia, Nokia Shanghai Bell | merged |  | S3-240991 |
| S3-240354 | LS reply on clarification on home network triggered re-authentication | Nokia, Nokia Shanghai Bell | merged |  | S3-240831 |
| S3-240355 | Editorial Correction | Nokia, Nokia Shanghai Bell | merged |  | S3-240853 |
| S3-240356 | AKMA service mid session disabling in roaming | Nokia, Nokia Shanghai Bell, NDRE | merged |  | S3-240915 |
| S3-240357 | New WID on AKMA service disabling | Nokia, Nokia Shanghai Bell, NDRE | revised |  | S3-241040 |
| S3-240358 | Security assumption | Nokia, Nokia Shanghai Bell,CableLabs | revised |  | S3-240920 |
| S3-240359 | Scope | Nokia, Nokia Shanghai Bell,CableLabs | revised |  | S3-240925 |
| S3-240360 | KI for UE connecting to the new TNAP | Nokia, Nokia Shanghai Bell,CableLabs | revised |  | S3-240921 |
| S3-240361 | KI on AUN3 device connecting to the new 5G-RG | Nokia, Nokia Shanghai Bell,CableLabs | revised |  | S3-240922 |
| S3-240362 | KI on N5CW device connecting to the new TWAP | Nokia, Nokia Shanghai Bell,CableLabs | revised |  | S3-240923 |
| S3-240363 | KI on UE connecting to the new WLAN AP under the same NSWOF | Nokia, Nokia Shanghai Bell,CableLabs | revised |  | S3-240924 |
| S3-240364 | copying solutions back to this TR from previous TR | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-240365 | AKMA service restriction in roaming | NDRE, Ministère Economie et Finances, National Technical Assistance, Nokia, OTD\_US, Security Service | merged |  | S3-240915 |
| S3-240366 | LS on AKMA service restrictions in roaming | NDRE | revised |  | S3-240996 |
| S3-240367 | New key issue on Certificate Enrolment | Johns Hopkins University APL | revised |  | S3-240985 |
| S3-240368 | New key issue on certificate revocation | Johns Hopkins University APL | noted |  |  |
| S3-240369 | New key issue on certificate renewal | Johns Hopkins University APL | revised |  | S3-240986 |
| S3-240370 | Discussion on UDM authentication verification of synchronization failure message | BSI (DE) | noted |  |  |
| S3-240371 | Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network | BSI (DE) | not pursued |  |  |
| S3-240372 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | not pursued |  |  |
| S3-240373 | Add UDM threat reference for missing verification of synchronization failure messages. | BSI (DE) | not pursued |  |  |
| S3-240374 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | not pursued |  | - |
| S3-240375 | Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case | BSI (DE) | revised |  | S3-240647 |
| S3-240376 | Removal of note in GVNP lifecyle management | BSI (DE) | agreed |  |  |
| S3-240377 | Reply LS - Update on SA3 initial review of AKA security concerns presented in the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | U.S. National Security Agency | withdrawn |  |  |
| S3-240378 | Reply LS Regarding AKA Protocols | U.S. National Security Agency | withdrawn |  |  |
| S3-240379 | New key issue for automated certificate management protocol selection | Cisco Systems | noted |  |  |
| S3-240380 | New key issue on client identity validation | Telus, CIsco Systems | merged |  | S3-240984 |
| S3-240381 | Clarifications to Robustness and Fuzz test cases | MITRE Corporation | agreed |  |  |
| S3-240382 | FS\_eZTS Timeline | MITRE Corporation | noted |  |  |
| S3-240383 | ZTS New Data exposure use case: Unauthorized/unauthenticated NF service access request | MITRE Corporation | revised |  | S3-240905 |
| S3-240384 | SL Positioning UE Privacy and Authorization | InterDigital, Europe, Ltd. | revised |  | S3-240821 |
| S3-240385 | ZTS New data exposure use case: Topology discovery | MITRE Corporation | revised |  | S3-241020 |
| S3-240386 | Overview for TR 33.757 | Johns Hopkins University APL | merged |  | S3-240978 |
| S3-240387 | Scope for TR 33.757 | Johns Hopkins University APL | merged |  | S3-240976 |
| S3-240388 | Remove circular reference in U2U Relay discovery Model A | Interdigital | revised |  | S3-240864 |
| S3-240389 | New key issue on topology hiding for TR 33.757 | Johns Hopkins University APL | merged |  | S3-240978 |
| S3-240390 | New key issue on malformed message for TR 33.757 | Johns Hopkins University APL | merged |  | S3-240978 |
| S3-240391 | New SID on security aspects of Usage of User Identities | InterDigital Belgium. LLC | revised |  | S3-240957 |
| S3-240392 | Proposed skeleton for TR 33.776 Study of Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA) | Cisco Systems | withdrawn | - |  |
| S3-240393 | Draft Reply LS on Ranging service exposure security and privacy check | OPPO | withdrawn |  |  |
| S3-240394 | Add authorization procedure for Ranging service exposure through 5GC user plane | OPPO | withdrawn |  |  |
| S3-240395 | Add missing RFC4122 in References section | Ericsson | revised |  | S3-240845 |
| S3-240396 | Add missing RFC4122 in References section | Ericsson | revised |  | S3-240846 |
| S3-240397 | Add missing RFC4122 in References section | Ericsson | revised |  | S3-240847 |
| S3-240398 | Comments to Scope of TR 33.700-29 | InterDigital, Inc. | merged |  | S3-240931 |
| S3-240399 | Clarify pre-registration in CA/RA for NF instance ID verification | Ericsson | revised |  | S3-240848 |
| S3-240400 | Reply LS to ETSI ISG NFV on Certificate Management | Ericsson | merged |  | S3-240833 |
| S3-240401 | Reply LS to 3GPP TSG SA on Monitoring of Encrypted 5GS Signalling Traffic | Ericsson | noted |  |  |
| S3-240402 | 5G SBA encrypted signaling monitoring in 3GPP | Ericsson | noted |  |  |
| S3-240403 | TS 35.234 skeleton | THALES | noted |  |  |
| S3-240404 | TS 35.235 Skeleton | THALES | noted |  |  |
| S3-240405 | TS 35.236 Skeleton | THALES | noted |  |  |
| S3-240406 | TS 35.237 Skeleton | THALES | noted |  |  |
| S3-240407 | pCR: TS 35.234 introduction | THALES | approved |  |  |
| S3-240408 | pCR: TS 35.235 introduction | THALES | approved |  |  |
| S3-240409 | pCR: TS 35.236 introduction | THALES | approved |  |  |
| S3-240410 | pCR: TS 35.237 introduction | THALES | approved |  |  |
| S3-240411 | skeleton of TR 33.757 | China Telecomunication Corp, ZTE | approved |  |  |
| S3-240412 | Scope of TR 33.757 | China Telecomunication Corp, ZTE, Nokia, Nokia Shanghai Bell | revised |  | S3-240976 |
| S3-240413 | Overview of TR 33.757 | China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell | revised |  | S3-240978 |
| S3-240414 | Security assumptions of TR 33.757 | China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell | revised |  | S3-240979 |
| S3-240415 | New KI on dedicated UPF interacting with PLMN through N4 interface | China Telecom, ZTE, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | merged |  | S3-240980 |
| S3-240416 | New KI on dedicated NFs interacting with PLMN through SBA interface | China Telecom, ZTE, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised |  | S3-240981 |
| S3-240417 | Dummy WID for R19 Home control for NSAC procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE | noted |  |  |
| S3-240418 | Home control for Network Slice Admission Control procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE | not pursued |  |  |
| S3-240419 | Discussions for R19 security enhancement of network slicing | Huawei, HiSilicon, Deutsche Telekom | noted |  |  |
| S3-240420 | R19 SID on security enhancement of network slicng | Huawei, HiSilicon, Deutsche Telekom | noted |  |  |
| S3-240421 | Discussions for R19 UAS security | Huawei, HiSilicon | noted |  |  |
| S3-240422 | R19 SID on UAS security enhancement | Huawei, HiSilicon | revised |  | S3-240967 |
| S3-240423 | Revocation procedure invoked by resource owner client | Huawei, HiSilicon | merged |  | S3-240850 |
| S3-240424 | Revocation procedures invoked by API invoker | Huawei, HiSilicon | merged |  | S3-240850 |
| S3-240425 | Correction on authentication and authorization for RNAA | Huawei, HiSilicon | agreed |  |  |
| S3-240426 | Access token profile for Annex C | Huawei, HiSilicon | revised |  | S3-240852 |
| S3-240427 | Clarification to flow selection for RNAA | Huawei, HiSilicon | revised |  | S3-240849 |
| S3-240428 | Issue in NSSAA procedures for multiple registration | Huawei, HiSilicon | revised |  | S3-240868 |
| S3-240429 | Clarification to direct C2 security for unicast | Huawei, HiSilicon | not pursued |  |  |
| S3-240430 | reply to CT4 on removal of uavAuthenticated IE | Huawei, HiSilicon | merged |  | S3-240835 |
| S3-240431 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | merged |  | S3-241002 |
| S3-240432 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | merged |  | S3-241003 |
| S3-240433 | Editorial changes to TS33.310 | Huawei, HiSilicon | agreed |  |  |
| S3-240434 | LS-reply to GSMA on CVD-2023-0069 5G Core Network Attacks | Huawei, HiSilicon | noted |  |  |
| S3-240435 | Clarification on SBI service request procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240436 | Clarification on SBI service request procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | merged |  | S3-240895 |
| S3-240437 | Clarification on SBI token | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240438 | Clarification on SBI token | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240439 | New SID on Study on Security and Privacy Aspects of Enhancement for Proximity based Services in 5GS - Phase 3 | China Telecomunication Corp. | merged |  | S3-240968 |
| S3-240440 | Reply LS to GMSA on CVD-2023-0075 – Certificate validation on IMS access interface | CableLabs | noted |  |  |
| S3-240441 | Architecture and security assumptions of TR 33.700-29 | China Telecomunication Corp. | merged |  | S3-240933 |
| S3-240442 | Key issues of TR 33.700-29 | China Telecomunication Corp. | merged |  | S3-240934 |
| S3-240443 | Validate FQDN of P-CSCF against the subjectAltName field in its server certificate | CableLabs | not pursued |  |  |
| S3-240444 | Validate FQDN of P-CSCF against the subjectAltName field in its server certificate | CableLabs | not pursued |  |  |
| S3-240445 | Validate FQDN of P-CSCF against the subjectAltName field in its server certificate | CableLabs | not pursued |  |  |
| S3-240446 | Key issue on SUPI privacy issue in PLMN hosting NPN Scenario | IIT Delhi, IIT Bhilai | withdrawn |  |  |
| S3-240447 | New SID on the evolvement of PRINS to better support roaming intermediaries | CableLabs | noted |  |  |
| S3-240448 | KAF re-keying after expiration triggered by AF | ZTE Corporation | not pursued |  |  |
| S3-240449 | KAF re-keying after expiration triggered by AAnF | ZTE Corporation | revised |  | S3-240995 |
| S3-240450 | Discussion on KAF re-keying after expiration | ZTE Corporation | noted |  |  |
| S3-240451 | Adding UDM additional function to TS 33.535 in R18 | ZTE Corporation | agreed |  |  |
| S3-240452 | Adding UDM additional function to TS 33.535 in R17 | ZTE Corporation | agreed |  |  |
| S3-240453 | Draft - Reply LS on AKMA service restrictions | ZTE Corporation | merged |  | S3-240837 |
| S3-240454 | CR on AKMA service restrictions | ZTE Corporation | not pursued |  |  |
| S3-240455 | Discussion on AKMA service restrictions | ZTE Corporation | noted |  |  |
| S3-240456 | Editorial correction to the clause 6.3.5 | ZTE | merged |  | S3-240866 |
| S3-240457 | Add the NL6 interface to the clause 5.3 | ZTE | not pursued |  |  |
| S3-240458 | Discussion on the failure cases in home network triggered re-authentication | ZTE Corporation | noted |  |  |
| S3-240459 | CR on the failure cases in home network triggered re-authentication | ZTE Corporation | merged |  | S3-240854 |
| S3-240460 | Draft - Reply LS on home network triggered re-authentication | ZTE Corporation | merged |  | S3-240831 |
| S3-240461 | Clear up for HONTRA procedure | ZTE Corporation | revised |  | S3-240853 |
| S3-240462 | Add service operations to TS 33.501 based on HONTRA | ZTE Corporation | agreed |  |  |
| S3-240463 | Remove the reference to TLS 1.1 | ZTE Corporation | not pursued |  |  |
| S3-240464 | Update the reference to DTLS 1.3 | ZTE Corporation | withdrawn |  |  |
| S3-240465 | Update the reference to DTLS 1.3 | ZTE Corporation | withdrawn |  |  |
| S3-240466 | Add some terms and abbreviations to TR 33.700-29 | ZTE Corporation | revised |  | S3-240932 |
| S3-240467 | New KI on UE authentication under Store and Forward Satellite operation mode | ZTE Corporation | merged |  | S3-240934 |
| S3-240468 | Add terms to TR 33.757 | ZTE Corporation | revised |  | S3-241006 |
| S3-240469 | New KI on UE authentication | ZTE Corporation | noted |  |  |
| S3-240470 | New Key Issue on different length of cryptographic key in EPS and 5GS interworking | ZTE Corporation | not treated |  |  |
| S3-240471 | Add some context to 5GMSG on AKMA Ua star protocol | ZTE FRANCE SASU | withdrawn |  |  |
| S3-240472 | TS 33.501 Rel17 CR on correcting NSWO static network name | CableLabs | not pursued |  |  |
| S3-240473 | TS 33.501 Rel18 CR on correcting NSWO static network name | CableLabs | not pursued |  |  |
| S3-240474 | Key issue on SUPI privacy issue in PLMN hosting NPN Scenario | IIT Delhi, IIT Bhilai, Samsung | revised |  | S3-241007 |
| S3-240475 | Alignment of 33.122 for RNAA | NTT DOCOMO | revised |  | S3-241039 |
| S3-240476 | Discussion Paper on Study on security aspects of Core Network Enhanced Support for AIML | vivo, China Mobile | noted |  |  |
| S3-240477 | MTLF Authorization of AIML model storage and sharing | vivo | not pursued |  | - |
| S3-240478 | New KI on Protection of Store and Forward Satellite Operation | OPPO | merged |  | S3-240934 |
| S3-240479 | LS on Scope of the UDR API | BSI (DE) | noted |  |  |
| S3-240480 | Draft - Reply LS on Certificate Management | NTT DOCOMO | revised |  | S3-240833 |
| S3-240481 | Reply LS on Clarification related to reliable location | Huawei, HiSilicon | merged |  | S3-241000 |
| S3-240482 | Clarification related to reliable location | Huawei, HiSilicon | not pursued |  |  |
| S3-240483 | Clarification related to reliable location | Huawei, HiSilicon | not pursued |  |  |
| S3-240484 | LS on AEAD mode of ZUC-256 algorithm | Huawei, HiSilicon, CATT, China Mobile | revised |  | S3-240838 |
| S3-240485 | Disucssion paper on AEAD mode of ZUC-256 algorithm | Huawei, HiSilicon, CATT, China Mobile | noted |  |  |
| S3-240486 | Reply LS on Ranging/SL Positioning service exposure security and privacy check | Huawei, HiSilicon | revised |  | S3-240836 |
| S3-240487 | Clarification on the procedure for authorization of AF/5GC NF/LCS Client | Huawei, HiSilicon | merged |  | S3-240948 |
| S3-240488 | Location\_PrivacyCheck service from GMLC | Huawei, HiSilicon | merged |  | S3-240948 |
| S3-240489 | Discussion on Security Enhancement for NEF | Huawei, HiSilicon | noted |  |  |
| S3-240490 | New SID on 5G Security Enhancement for NEF | Huawei, HiSilicon | noted |  |  |
| S3-240491 | Discussion on Security Aspects on Ambient IoT | Huawei, HiSilicon | noted |  |  |
| S3-240492 | Key issues on Introduction of 256-bit algorithms in 5G system | Huawei, HiSilicon | revised |  | S3-240989 |
| S3-240493 | Solution on transitions to 256 bit algorithms | Huawei, HiSilicon | not treated |  |  |
| S3-240494 | Removing the edito’s note to clause 4.2.2 in TS 33.533 | Huawei, HiSilicon | not pursued |  |  |
| S3-240495 | Updates on WID on Addition of 256-bit security Algorithms | Huawei, HiSilicon | merged |  | S3-240875 |
| S3-240496 | Reply LS on security aspects for Ranging/Sidelink Positioning | Huawei, HiSilicon | noted |  |  |
| S3-240497 | Update to the authorization procedure for Ranging/SL positioning | Huawei, HiSilicon | merged |  | S3-240929 |
| S3-240498 | Update procedure for secured and authorized AIML model sharing | Huawei, HiSilicon | revised |  | S3-240911 |
| S3-240499 | Editorial change on procedure for protection of analytics exchange in roaming case | Huawei, HiSilicon | revised |  | S3-240914 |
| S3-240500 | Remove the EN in the X.9 Authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | not pursued |  |  |
| S3-240501 | Correct procedure for authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | revised |  | S3-240913 |
| S3-240502 | Security of Analytics transfer between NWDAFs | Huawei, HiSilicon | not pursued |  |  |
| S3-240503 | Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | Huawei, HiSilicon | revised |  | S3-240829 |
| S3-240504 | New KI on limitations of ACME protocol | Huawei, HiSilicon | merged |  | S3-240984 |
| S3-240505 | Discussion about UE-to-Network relay discovery security material identification | Huawei, HiSilicon | noted |  |  |
| S3-240506 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | revised |  | S3-240862 |
| S3-240507 | New SID on Security Aspects of System Enhancement for Proximity-based Services in 5GS - Phase 3 | Huawei, HiSilicon | merged |  | S3-240968 |
| S3-240508 | Discussion about study on Security Aspects of ProSe - Phase 3 | Huawei, HiSilicon | noted |  |  |
| S3-240509 | Clarification on multiple relay discovery security materials | Huawei, HiSilicon | merged |  | S3-240862 |
| S3-240510 | Clarification on multiple relay discovery security materials | Huawei, HiSilicon | merged |  | S3-240863 |
| S3-240511 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | revised |  | S3-240863 |
| S3-240512 | Update the Security for Subsequent CPAC | Huawei, HiSilicon | merged |  | S3-240841 |
| S3-240513 | Reply LS to GSMA on defintion of network product class | Huawei, HiSilicon | revised |  | S3-240839 |
| S3-240514 | update UP policy testing to align with split gNB SCAS | Huawei, HiSilicon | agreed |  |  |
| S3-240515 | New KI on bidding down attack in case of decommissioning of 3G and 2G networks | Huawei, HiSilicon | merged |  | S3-240919 |
| S3-240516 | New KI on TNGF mobility | Huawei, HiSilicon | merged |  | S3-240923 |
| S3-240517 | New solution on TNGF mobility | Huawei, HiSilicon | revised |  | S3-240926 |
| S3-240518 | conclusion on TNGF mobility | Huawei, HiSilicon | noted |  |  |
| S3-240519 | New KI on NSWO case | Huawei, HiSilicon | merged |  | S3-240924 |
| S3-240520 | New KI on AUN3 case | Huawei, HiSilicon | merged |  | S3-240922 |
| S3-240521 | Add certificate enrolment to TS 33.511 | Huawei, HiSilicon | noted |  |  |
| S3-240522 | Local certificate checking at gNB to TS 33.511 | Huawei, HiSilicon | noted |  |  |
| S3-240523 | Peer certificate checking at gNB to TS 33.511 | Huawei, HiSilicon | noted |  |  |
| S3-240524 | expired certificate checking at gNB to TS 33.511 | Huawei, HiSilicon | noted |  |  |
| S3-240525 | Add threat to certificate enrolment to TR 33.926 | Huawei, HiSilicon | noted |  |  |
| S3-240526 | Add threat to local certificate checking at gNB | Huawei, HiSilicon | noted |  |  |
| S3-240527 | Add threat to peer certificate checking at gNB | Huawei, HiSilicon | noted |  |  |
| S3-240528 | Add threat to expired certificate checking at gNB | Huawei, HiSilicon | noted |  |  |
| S3-240529 | R19 SCAS WID | Huawei, HiSilicon | revised |  | S3-240951 |
| S3-240530 | Clarification on the function of UE ID trusted non-3GPP access | Huawei, HiSilicon | revised |  | S3-240992 |
| S3-240531 | Clarification on execute steps 3 about operating system to adapt to more scenario | Huawei, HiSilicon | revised |  | S3-240871 |
| S3-240532 | CR on key misalignment | Huawei, HiSilicon | noted |  |  |
| S3-240533 | Reply LS to CT4 on home network triggered re-authentication | Huawei, HiSilicon | revised |  | S3-240831 |
| S3-240534 | Updates to the certificate lifecycle management | Huawei, HiSilicon | not pursued |  |  |
| S3-240535 | Clarifications to the CMP message protection | Huawei, HiSilicon | agreed |  |  |
| S3-240536 | Draft TR 33.701 scope | Huawei, HiSilicon | approved |  |  |
| S3-240537 | Removal of N3IWF annex | Huawei, HiSilicon | agreed |  |  |
| S3-240538 | Removal of incomplete N3IWF annex (mirror) | Huawei, HiSilicon | not pursued |  |  |
| S3-240539 | Reformulation of verbatim copied requirements | Huawei, HiSilicon | agreed |  |  |
| S3-240540 | Resolution of the editor's notes in the SBA tests | Huawei, HiSilicon | agreed |  |  |
| S3-240541 | Resolution of the editor's notes in the SBA tests | Huawei, HiSilicon | agreed |  |  |
| S3-240542 | Reformulation of verbatim copied requirements | Huawei, HiSilicon | agreed |  |  |
| S3-240543 | Assumption proposal for the 256-bit algorithm introduction study | Huawei, HiSilicon | revised |  | S3-241009 |
| S3-240544 | Discussion on how to back track the 5G roaming related changes to earlier releases | Huawei, HiSilicon, Vodafone | endorsed |  |  |
| S3-240545 | Living document for backtracking 5G Roaming changes - Modification of PRINS to enable Roaming Hubs | Huawei, HiSilicon, Vodafone | revised |  | S3-240882 |
| S3-240546 | Placeholder for collecting new changes related to the 5G roaming WID | Huawei, HiSilicon, Vodafone | revised |  | S3-240883 |
| S3-240547 | Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | Huawei, HiSilicon | merged |  | S3-240906 |
| S3-240548 | Skeleton for TR 33.701 - Study on mitigations against bidding down attacks | Huawei Technologies Sweden AB | approved |  |  |
| S3-240549 | Reply LS on authorization the CCA of the new Data Consumer | Huawei, HiSilicon | revised |  | S3-240830 |
| S3-240550 | Clarification on the usage of N32-f context ID and N32-f message ID | Huawei, HiSilicon | revised |  | S3-241036 |
| S3-240551 | Modification on the definition of Roaming Hub | Huawei, HiSilicon | revised |  | S3-240891 |
| S3-240552 | New\_SID\_EdgeComputing | Huawei, HiSilicon | revised |  | S3-240970 |
| S3-240553 | A new KI on third party specific user identities | Huawei, HiSilicon | merged |  | S3-240944 |
| S3-240554 | a new KI on the security of Avartar Communication | Huawei, HiSilicon | merged |  | S3-240945 |
| S3-240555 | Reply LS on Roaming Hub requirements as applicable to the Modified PRINS solution | Huawei, HiSilicon | revised |  | S3-240887 |
| S3-240556 | Reply LS on IPX Service Hub requirements as applicable to the Modified PRINS solution | Huawei, HiSilicon | revised |  | S3-240888 |
| S3-240557 | Reply LS on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply | Huawei, HiSilicon | merged |  | S3-240832 |
| S3-240558 | Clarification on alignment of message and failure cause in HONTRA | Huawei, HiSilicon | revised |  | S3-240854 |
| S3-240559 | A new solution on third-party specific user identities | Huawei, HiSilicon | noted |  |  |
| S3-240560 | Discussion on the security of Avatar Communication | Huawei, HiSilicon | noted |  |  |
| S3-240561 | Discussion on privacy verification for Ranging/SL positioning service exposure through PC5 | OPPO | withdrawn |  |  |
| S3-240562 | Added parameters to NRF discovery authorization | BSI (DE) | revised |  | S3-241001 |
| S3-240563 | Added parameters to NRF discovery authorization threat reference | BSI (DE) | agreed |  |  |
| S3-240564 | Draft reply LS on security aspects for Ranging/Sidelink Positioning | OPPO | withdrawn |  |  |
| S3-240565 | New SID on Security Aspects of Proximity based Services in 5GS Phase 3 | China Unicom | merged |  | S3-240968 |
| S3-240566 | Add procedure of UE privacy verification for Network based operation of service exposure through PC5 link | OPPO | withdrawn |  |  |
| S3-240567 | Reply LS to GSMATSG IMSDCAS | Apple | revised |  | S3-240832 |
| S3-240568 | Reply LS to SA2 on MSISDN exposure | Apple | merged |  | S3-240834 |
| S3-240569 | key issue on decommissioning 2G/3G | Apple | merged |  | S3-240919 |
| S3-240570 | solution on decommissioning 2G/3G | Apple | noted |  |  |
| S3-240571 | New KI for CAT\_256 on correctly indication | Apple | merged |  | S3-240989 |
| S3-240572 | New solution for CAT\_256 on correctly indication | Apple | not treated |  |  |
| S3-240573 | New KI for CAT\_256 on Flexibility to adjust the preference on security algorithms | Apple | noted |  |  |
| S3-240574 | New solution for CAT\_256 on Flexibility to adjust the preference on security algorithms | Apple | not treated |  |  |
| S3-240575 | CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | revised |  | S3-240855 |
| S3-240576 | New SID on security aspects for Multi-Access | Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo, Charter, Intel | revised |  | S3-240971 |
| S3-240577 | Authorization of NWDAF MTLF to request FL process on behalf of AnLF | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240578 | Authorization of Model Sharing with MTLF | Nokia, Nokia Shanghai Bell | merged |  | S3-240911 |
| S3-240579 | Update of figure in clause X.10 of TS 33.501 (eNA) | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-240580 | Updates to the SBA certificate profile | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240581 | New WID\_Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | noted |  | - |
| S3-240582 | Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | revised |  | S3-240954 |
| S3-240583 | Correction to validation of usage of X.509 certificate procedure | Nokia, Nokia Shanghai Bell, Ericsson | revised |  | S3-240993 |
| S3-240584 | Discussion paper on DNS security | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240585 | Revert the Annex P of TS 33.501 to Informative | Nokia, Nokia Shanghai Bell, Ericsson | merged |  | S3-240907 |
| S3-240586 | Revert Annex P of 33.501 to Informative Rel18 | Nokia, Nokia Shanghai Bell, Ericsson | merged |  | S3-240908 |
| S3-240587 | LS reply on DNS over TLS (DoT) | Nokia, Nokia Shanghai Bell | revised |  | S3-240906 |
| S3-240588 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | revised |  | S3-240907 |
| S3-240589 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | revised |  | S3-240908 |
| S3-240590 | Details of the DNS security mechanism in EDGE computing (roaming) | Nokia, Nokia Shanghai Bell | revised |  | S3-240909 |
| S3-240591 | Discussion paper on EU ID security | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240592 | New WID on Certificate bound access token in SBA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240593 | Update procedure of UE privacy verification for UE-only operation of service exposure through PC5 link | OPPO | withdrawn |  |  |
| S3-240594 | Technical Provision to ZUC based 256-bit algorithm specification | Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC | approved | S3-240292 |  |
| S3-240595 | Technical Provision to ZUC based 256-bit Algorithm Implementation Test Data | Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC | approved | S3-240293 |  |
| S3-240596 | Technical Provision to ZUC based 256-bit algorithm conformance test data | Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC | withdrawn | S3-240294 |  |
| S3-240597 | Technical Provision to ZUC based 256-bit algorithm conformance test data | Huawei, HiSilicon, CATT, CMCC, CUCC, CTCC | approved | S3-240294 |  |
| S3-240598 | New KI - security of backhaul communication over feeder link in generic regenerative mode | Ericsson | noted |  |  |
| S3-240599 | Editorial correction in clause 6.3.5 of TS 33.533 | OPPO | withdrawn |  |  |
| S3-240600 | New KI - security of communication over inter satellite link | Ericsson | noted |  |  |
| S3-240601 | CAPIF - DP Security concerns on onboarding information | Nokia, Nokia Shanhai Bell | noted |  |  |
| S3-240602 | Updates to Federated Learning | Intel | agreed |  |  |
| S3-240603 | New KI - authentication in Store & Forward | Ericsson | merged |  | S3-240934 |
| S3-240604 | Update flow of Nnwdaf\_MLModelProvision | Intel Technology Poland SP Zoo | revised |  | S3-240910 |
| S3-240605 | Architecture and security assumptions of TR 33.700-29 | Ericsson | merged |  | S3-240933 |
| S3-240606 | Potential security and lawful intercept challenges in IMS based telephony for UE-satellite-UE | Ericsson | noted |  |  |
| S3-240607 | CR to TS33.503 Update U2U Relay Discovery procedure with Model A | CATT | not pursued |  |  |
| S3-240608 | Comments on SCG Activation papers | Intel Technology Poland SP Zoo | noted |  |  |
| S3-240609 | CR to TS33.503 Update U2U Relay Discovery procedure with Model B | CATT | not pursued |  |  |
| S3-240610 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell | merged |  | S3-240862 |
| S3-240611 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell | merged |  | S3-240863 |
| S3-240612 | discussion on resource isolation for 5G network slice | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240613 | new SID on resource isolation for 5G network slice | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240614 | Revision of Rel19 NG\_RTC\_SEC\_Ph2 SID | Nokia, Nokia Shanghai Bell | merged |  | S3-240988 |
| S3-240615 | new key issue on IMS DC capability exposure | Nokia, Nokia Shanghai Bell | revised |  | S3-240946 |
| S3-240616 | new key issue on authenticity of DC application | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-240617 | CVD-0069 Cross check on NF discovery request | Nokia, Nokia Shanghai Bell | not treated | S3-234870 |  |
| S3-240618 | CVD-0069 Condition of including allowed sNSSAIs in access token | Nokia, Nokia Shanghai Bell | withdrawn | S3-234871 |  |
| S3-240619 | Updates to Security for Selective SCG Activation | Intel Technology Poland SP Zoo | merged |  | S3-240841 |
| S3-240620 | Update the reference to DTLS 1.3 | ZTE Corporation | revised |  | S3-240879 |
| S3-240621 | Update the reference to DTLS 1.3 | ZTE | revised |  | S3-240880 |
| S3-240622 | Add some context to 5GMSG on AKMA Ua star protocol | ZTE | revised |  | S3-240856 |
| S3-240623 | Security and Privacy Aspects of Store and Forward (S&F) Satellite Operation | Intel Technology Poland SP Zoo | merged |  | S3-240934 |
| S3-240624 | Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3 | CATT | revised |  | S3-240968 |
| S3-240625 | SNAAPPY - Update to RNAA functional security model description | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-240626 | Draft skeleton of TR 33.700-29 | CATT | approved |  |  |
| S3-240627 | Corrections to NSWO with CH AAA | Ericsson | revised |  | S3-240916 |
| S3-240628 | Discussion about 256-bit security | Ericsson | noted |  |  |
| S3-240629 | Adding Security Assumpations to TR 33.700-41 | Ericsson | merged |  | S3-241009 |
| S3-240630 | New WID on specification of new f5 function | Ericsson | noted |  |  |
| S3-240631 | Reply LS on MSISDN exposure | Ericsson, Verizon | revised |  | S3-240834 |
| S3-240632 | DNS security aspects | Ericsson | noted |  |  |
| S3-240633 | Reply LS on evaluating security aspects for MC services over MC gateway UE | Ericsson, Motorola Solutions | revised |  | S3-240828 |
| S3-240634 | Reply LS on Ranging/SL Positioning service exposure security and privacy check | Ericsson | merged |  | S3-240836 |
| S3-240635 | Security Negotiation for RNAA | Ericsson | merged |  | S3-240849 |
| S3-240636 | Details for RNAA token | Ericsson | merged |  | S3-240852 |
| S3-240637 | Rel18-Clarification on reliable location information | Ericsson | not pursued |  |  |
| S3-240638 | Reply LS on Clarification related to reliable location | Ericsson | revised |  | S3-241000 |
| S3-240639 | Updates to TLS protocol profiles | Nokia, Nokia Shanghai Bell | merged |  | S3-240878 |
| S3-240640 | Scope of TR 33.700-29 | CATT, Nokia | revised |  | S3-240931 |
| S3-240641 | Revised SID on Study on Security Aspects of 5G Satellite Access Phase 3 | CATT | agreed |  |  |
| S3-240642 | New KI - for mitigations against Bidding Down Attacks | Ericsson | merged |  | S3-240919 |
| S3-240643 | pCR to TR33.700-29 Architecture and security assumptions | CATT | merged |  | S3-240933 |
| S3-240644 | Clarifying N32f and N32c correlation need | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240645 | pCR to TR33.700-29 New key issue for data communication security in S&F Satellite Operation | CATT | merged |  | S3-240934 |
| S3-240646 | pCR to TR33.700-29 New key issue for authentication and authorization in S&F Satellite Operation | CATT | revised |  | S3-240934 |
| S3-240647 | Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case | BSI (DE) | revised | S3-240375 | S3-240723 |
| S3-240648 | Clarifications on NRF and NFp checks | Nokia, Nokia Shanghai Bell | merged |  | S3-240867 |
| S3-240649 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | revised | S3-240331 | S3-240725 |
| S3-240650 | Updates to Profiling of IPsec | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240651 | LS reply to LS on evaluating security aspects for MC services over MC gateway UE | Nokia. Nokia Shanghai Bell | merged |  | S3-240828 |
| S3-240652 | New SID on 5GS enhancements for Energy Saving | Nokia, Nokia Shanghai Bell, OPPO, Telecom Italia | revised |  | S3-240972 |
| S3-240653 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | revised |  | S3-240900 |
| S3-240654 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | revised |  | S3-240901 |
| S3-240655 | Replacing SUPI with SUCI in I.10.2.2 | Ericsson | revised |  | S3-240917 |
| S3-240656 | Replacing SUPI with SUCI in I.10.3.2 | Ericsson | revised |  | S3-240918 |
| S3-240657 | Architectural Assumptions for security aspects of satellite access phase 2 | Nokia, Nokia Shanghai Bell | merged |  | S3-240933 |
| S3-240658 | LS on Quantum Safe Cryptographic Protocol Inventory | Ericsson | noted |  |  |
| S3-240659 | Discussion on Quantum Safe Cryptography Protocol Inventory | Ericsson | noted |  |  |
| S3-240660 | Terminology correction | Ericsson | agreed |  |  |
| S3-240661 | Consistency Between NF Profile and Certificate | Ericsson, Deutsche Telekom, China Telecom, KDDI | revised |  | S3-240867 |
| S3-240662 | Clarification of input parameter verification for token-based authorization | Ericsson, Deutsche Telekom, KDDI | merged |  | S3-240867 |
| S3-240663 | Discussion on the 3GPP specific JWT claims registration in IANA | Ericsson | noted |  |  |
| S3-240664 | Updating Internet Drafts to Final RFCs (Rel-17) | Ericsson | revised |  | S3-240858 |
| S3-240665 | Updating Internet Drafts to Final RFCs (Rel-18) | Ericsson | revised |  | S3-240859 |
| S3-240666 | Voiding Reference to TLS 1.1 | Ericsson | agreed |  |  |
| S3-240667 | Voiding Reference to TLS 1.1 | Ericsson | agreed |  |  |
| S3-240668 | Voiding Reference to TLS 1.1 | Ericsson | agreed |  |  |
| S3-240669 | Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included | Ericsson | noted |  |  |
| S3-240670 | Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included | Ericsson | not pursued |  |  |
| S3-240671 | Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included | Ericsson | not pursued |  |  |
| S3-240672 | Update of an Obsoleted RFC | Ericsson | not pursued |  |  |
| S3-240673 | Updating Obsolete RFC 2818 by RFC 9110 | Ericsson | agreed |  |  |
| S3-240674 | Replacing MD5 with SHA-256 in Example | Ericsson | agreed |  |  |
| S3-240675 | Updates to the IKEv2 profile | Ericsson | revised |  | S3-240877 |
| S3-240676 | Updates to the 3GPP TLS profile | Ericsson | revised |  | S3-240878 |
| S3-240677 | Change of requirements for DTLS over SCTP (DTLS/SCTP) | Ericsson | not pursued |  |  |
| S3-240678 | Clarifications for EAP-TLS 1.3 | Ericsson | not pursued |  |  |
| S3-240679 | Clarifications of privacy options for EAP-TLS | Ericsson | not pursued |  |  |
| S3-240680 | Study on NRF public key retrieval by NF Service Producers | Ericsson, Deutsche Telekom | noted |  |  |
| S3-240681 | Validation of the allowed slices in the access token request at NRF | Ericsson | revised |  | S3-240895 |
| S3-240682 | Validation of the requested slices at NF service producer | Ericsson | not treated |  |  |
| S3-240683 | Support iat claim in the access token | Ericsson | not pursued |  |  |
| S3-240684 | Clarification of security requirement on NF Discovery response | Ericsson | not treated |  |  |
| S3-240685 | LS on GSMA CVD-2023-0069 - 5G Core Network Attacks | Ericsson | noted |  |  |
| S3-240686 | Certificate validation on IMS access interface | Ericsson | revised |  | S3-240893 |
| S3-240687 | LS on GSMA CVD-2023-0075 – Certificate validation on IMS access interface | Ericsson | revised |  | S3-240894 |
| S3-240688 | Security Assumptions for Study on enablers for Zero Trust Security | Nokia, Nokia Shanghai Bell, AT&T, Lenovo | revised |  | S3-240902 |
| S3-240689 | Clarification for Model Sharing with MTLF | Ericsson | not pursued |  |  |
| S3-240690 | New SID on Security aspects of 5G NR Femto | Nokia, Nokia Shanghai Bell, Verizon, Samsung, AT&T, Charter | revised |  | S3-240973 |
| S3-240691 | 5G Security Assurance Specification (SCAS) for the Cloud Native Products (CNP) | Ericsson | noted |  |  |
| S3-240692 | LS on 3GPP studies for PQC Migration | GSMA | postponed |  |  |
| S3-240693 | Reply LS on Authorization of NF service consumer for data collection via DCCF | Ericsson | merged |  | S3-240830 |
| S3-240694 | Updates to Security for Selective SCG Activation | Samsung | merged |  | S3-240841 |
| S3-240695 | Revocation procedure for RNAA | Samsung | merged |  | S3-240850 |
| S3-240696 | Key Issue on NF Authorization in PLMN hosting NPN Scenario | Samsung | merged |  | S3-240981 |
| S3-240697 | Key Issue on DNS Security in PLMN hosting NPN Scenario | Samsung | merged |  | S3-240981 |
| S3-240698 | Key Issue on insufficient entropy due to permanent secret key length (K) | Samsung | revised |  | S3-241022 |
| S3-240699 | Key issue on 2G or 3G bidding down attack | Samsung | revised |  | S3-240919 |
| S3-240700 | Key Issue on security mechanisms to authenticate and authorize a UE for the Store & Forward Satellite operation | Samsung | merged |  | S3-240934 |
| S3-240701 | Key issue on isolation of keys in S&F operating mode | Samsung | not treated |  |  |
| S3-240702 | Key issue on protection of partial attach and registration accept message | Samsung | not treated |  |  |
| S3-240703 | New SID on security aspects of 5G Mobile Metaverse services | Samsung, Nokia, Nokia Shanghai Bell, IIT Delhi, Lenovo, OPPO | revised |  | S3-240974 |
| S3-240704 | Study on security aspects of CAPIF Phase 3 | Samsung | revised |  | S3-240975 |
| S3-240705 | New SID on security aspects NR mobility enhancement | Samsung | revised |  | S3-241041 |
| S3-240706 | Reply LS on AKMA service restrictions | China Mobile | revised |  | S3-240837 |
| S3-240707 | Reply LS on LI for AKMA in roaming | China Mobile | withdrawn |  |  |
| S3-240708 | AKMA roaming policy control in AAnF | China Mobile | revised |  | S3-240915 |
| S3-240709 | New SID on security management service | China Mobile, ZTE, Nokia, Nokia Shanghai Bell, CATT, CableLabs, China Telecom | noted |  |  |
| S3-240710 | New SID on Study on security aspects of AIML enhancements | China Mobile, vivo | revised |  | S3-240969 |
| S3-240711 | Discussion on security for XR | China Mobile | noted |  |  |
| S3-240712 | New SID on security for XR services | China Mobile | noted |  |  |
| S3-240713 | New SID on security aspects of the 5GMSG Service phase 3 | China Mobile | revised |  | S3-240811 |
| S3-240714 | Reply LS on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply | China Mobile | merged |  | S3-240832 |
| S3-240715 | Scope for NG RTC SEC Ph2 SID | China Mobile, Ericsson | revised |  | S3-240942 |
| S3-240716 | Key issue of third party specific user identities | China Mobile, Ericsson | revised |  | S3-240944 |
| S3-240717 | Reply LS for SA2-2309697 on Removal of the uavAuthenticated IE from Create SM Context Request | China Mobile | noted |  |  |
| S3-240718 | new KI - security of signalling message in N4 interface | China Mobile | revised |  | S3-240980 |
| S3-240719 | new KI - security of signalling message in SBI interface | China Mobile | merged |  | S3-240981 |
| S3-240720 | new KI - security of subscription data sharing | China Mobile | noted |  |  |
| S3-240721 | new KI - Security of topology hiding in N4 interface | China Mobile | merged |  | S3-240980 |
| S3-240722 | new KI - Security of topology hiding in SBA interface | China Mobile | merged |  | S3-240981 |
| S3-240723 | Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case | BSI (DE) | not pursued | S3-240647 |  |
| S3-240724 | Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | Ericsson | merged |  | S3-240829 |
| S3-240725 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | revised | S3-240649 | S3-240860 |
| S3-240726 | Add authorization procedure for Ranging/SL positioning service exposure through 5GC user plane | OPPO | not pursued |  |  |
| S3-240727 | SMSF Specific Security requirement and test case for draft TS 33.529 | IIT Bombay | revised |  | S3-240872 |
| S3-240728 | Correct clause references to TS 33.511 | Qualcomm Incorporated | agreed |  |  |
| S3-240729 | Adding the missing Xn-U interface | Qualcomm Incorporated | withdrawn | S3-233855 |  |
| S3-240730 | Discussion on protecting header information in UPU | Qualcomm Incorporated | noted | S3-234701 |  |
| S3-240731 | Protection of UPU header | Qualcomm Incorporated | merged | S3-234702 | S3-240991 |
| S3-240732 | Rel18 ProSe – Clarification on direct discovery set protection in U2U relay discovery with model A | Qualcomm Incorporated | revised |  | S3-240994 |
| S3-240733 | Rel18 ProSe – Update on security of PC5 communication for U2U Relay without network assistance | Qualcomm Incorporated | agreed |  |  |
| S3-240734 | Update on UE role authorization during discovery | Qualcomm Incorporated | revised |  | S3-241034 |
| S3-240735 | Draft Reply LS on Ranging service exposure security and privacy check | OPPO | merged |  | S3-240836 |
| S3-240736 | Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | IIT Bombay | revised |  | S3-240873 |
| S3-240737 | Security profiles for PRINS | Nokia, Nokia Shanghai Bell | revised | S3-234865 | S3-240889 |
| S3-240738 | Discussion on privacy verification for ranging or SL positioning service exposure through PC5 | OPPO | noted |  |  |
| S3-240739 | Reply LS on security aspects for Ranging or Sidelink Positioning | OPPO | noted |  |  |
| S3-240740 | FS\_eZTS offline Call Minutes | Lenovo, Motorola Mobility | noted |  |  |
| S3-240741 | Add procedure of UE privacy verification for Network based operation of service exposure through PC5 link | OPPO | merged |  | S3-240929 |
| S3-240742 | Update procedure of UE privacy verification for UE-only operation of service exposure through PC5 link | OPPO | merged |  | S3-240929 |
| S3-240743 | SCPAC: Updates to Security for Selective SCG Activation | Ericsson | merged |  | S3-240841 |
| S3-240744 | SCPAC: FC values | Ericsson | noted |  |  |
| S3-240745 | SCPAC: Releasing prepared SCPAC configurations at handover | Ericsson | merged |  | S3-240841 |
| S3-240746 | SCPAC: Updates to Security for Selective SCG Activation | Ericsson | revised |  | S3-240841 |
| S3-240747 | SCPAC: Algorithm negotiation | Ericsson | merged |  | S3-240841 |
| S3-240748 | SCPAC: Secondary Node key update for SCPAC | Ericsson | merged |  | S3-240841 |
| S3-240749 | SCPAC: Protection of traffic between UE and SN for SCPAC | Ericsson | merged |  | S3-240841 |
| S3-240750 | Correction on authorization for Ranging and Sidelink Positioning | Ericsson | not treated |  |  |
| S3-240751 | Clarification on the UE Ranging/SL Positioning privacy profile | Ericsson, Xiaomi | revised |  | S3-240949 |
| S3-240752 | Clarification on the procedure of UE privacy check | Ericsson | revised |  | S3-240948 |
| S3-240753 | UE Privacy handling for service exposure through PC5 | Ericsson | revised |  | S3-240929 |
| S3-240754 | UPU Header Security | Lenovo | revised |  | S3-240991 |
| S3-240755 | Editorial correction in clause 6.3.5 of TS 33.533 | OPPO | merged |  | S3-240866 |
| S3-240756 | Diameter Session security requirements on SGd interface for Security Assurance Specifications for SMSF requirements | IIT Bombay | noted |  |  |
| S3-240757 | Proposal for a way forward on AKMA restrictions | Ericsson | noted |  |  |
| S3-240758 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson | revised |  | S3-240956 |
| S3-240759 | Reply LS on CVD-2023-0079 – Lack of GPRS IOV randomisation | Ericsson | revised |  | S3-240892 |
| S3-240760 | Reply LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | Ericsson | revised |  | S3-240840 |
| S3-240761 | TR 33.790 skeleton | Ericsson, China Mobile | approved |  |  |
| S3-240762 | TR 33.790 Background clause proposal | Ericsson | revised |  | S3-240943 |
| S3-240763 | New Key issue on the security of IMS Avatar Communication using Data Channel | Ericsson | revised |  | S3-240945 |
| S3-240764 | Revised SID on the security support for the Next Generation Real Time Communication services Phase 2 | Ericsson, China Mobile | revised |  | S3-240988 |
| S3-240765 | Revised SID on enablers for Zero Trust Security | Ericsson, AT&T, Johns Hopkins University APL, MITRE, T-Mobile, US National Security Agency | noted |  |  |
| S3-240766 | Discussion of Revised SID on enablers for Zero Trust Security | Ericsson | noted |  |  |
| S3-240767 | Cleans up AMF and SMF relation for UUAA | Lenovo | revised |  | S3-241002 |
| S3-240768 | Cleans up AMF and SMF relation for UUAA | Lenovo | revised |  | S3-241003 |
| S3-240769 | New KI on Key Derivation | OPPO | merged |  | S3-240989 |
| S3-240770 | Response LS to C4-230790 | Lenovo | revised |  | S3-240835 |
| S3-240771 | New key issue of N5CW device | LG Electronics | merged |  | S3-240923 |
| S3-240772 | New key issue of AUN3 device | LG Electronics | merged |  | S3-240922 |
| S3-240773 | New key issue of UE connecting TNAP | LG Electronics | merged |  | S3-240921 |
| S3-240774 | Add a clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | IIT Bombay | not pursued |  |  |
| S3-240775 | Add VM traffic isolation security threat to TR 33.927 3GPp virtualized network product classes | China Mobile Com. Corporation | revised |  | S3-241032 |
| S3-240776 | Clarification to non-SBA interfaces | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-240777 | New KI - UE-Satellite-UE communication | Lenovo | noted |  |  |
| S3-240778 | Clarification on the authorization for UEs belonging to different PLMNs | Beijing Xiaomi Mobile Software | merged |  | S3-240948 |
| S3-240779 | Clarification on the collection of direct discovery set in the 5G ProSe UE-to-UE Relay Discovery with Model A | Xiaomi | merged |  | S3-240864 |
| S3-240780 | Security assumptions of 5G satellite access phase 3 | Beijing Xiaomi Mobile Software | revised |  | S3-240933 |
| S3-240781 | Key issue for Security for S&F satellite operation | Beijing Xiaomi Mobile Software | merged |  | S3-240934 |
| S3-240782 | Key issue for third party specific user identities | Beijing Xiaomi Mobile Software | merged |  | S3-240944 |
| S3-240783 | Reply LS on clarification on home network triggered re-authentication | Beijing Xiaomi Mobile Software | merged |  | S3-240831 |
| S3-240784 | New KI on 256-bit CK IK in AKA procedure | Xiaomi Communications | not treated |  |  |
| S3-240785 | New KI on 256-bit security algorithm negotiation | Xiaomi Communications | merged |  | S3-241022 |
| S3-240786 | New KI on Mitigating attack of 2G3G false base station in decommissioning scenarios | Xiaomi Communications | merged |  | S3-240919 |
| S3-240787 | Reply LS to reply LS on Decorated NAI format for 5G-NSWO for SNPN Scenarios | Xiaomi Communications | noted |  |  |
| S3-240788 | New KI on authorization of NFs deployed in the customer premises | Xiaomi Communications | merged |  | S3-240981 |
| S3-240789 | Routing indicator update issue in the A-KID construction procedure Release 17 | Xiaomi Communications | not pursued |  |  |
| S3-240790 | Routing indicator update issue in the A-KID construction procedure Release 18 (mirror) | Xiaomi | not pursued |  |  |
| S3-240791 | Update for CAPIF 8 | Xiaomi | revised |  | S3-240851 |
| S3-240792 | Add revocation procedure for RNAA-related tokens | Xiaomi | revised |  | S3-240850 |
| S3-240793 | Resolve ENs related to token claims | Xiaomi | merged |  | S3-240852 |
| S3-240794 | Resolve EN related to authorization request or token request | Xiaomi | agreed |  |  |
| S3-240795 | Resolve ENs related to API invoker ID mapping | Xiaomi | not pursued |  |  |
| S3-240796 | Discussion on UE privacy check for Ranging/SL Positioning service exposure | Xiaomi Technology | noted |  |  |
| S3-240797 | Assumption on the privacy of Located UE | Xiaomi Technology | not pursued |  |  |
| S3-240798 | Privacy Check of n UEs for UE-only Operation | Xiaomi Technology | merged |  | S3-240929 |
| S3-240799 | UE privacy check for exposure to Client UE via PC5 | Xiaomi Technology | merged |  | S3-240929 |
| S3-240800 | [Draft] Reply LS on Ranging/SL Positioning service exposure security and privacy check | Xiaomi Technology | merged |  | S3-240836 |
| S3-240801 | Authorization for service exposure to Client UE via 5GC UP | Xiaomi Technology | not pursued |  |  |
| S3-240802 | PC5 security policy for Ranging/SL positioning service | Xiaomi Technology | revised |  | S3-240865 |
| S3-240803 | Adding notes for Ranging/SL positioning broadcast/groupcast communication | Xiaomi Technology | revised |  | S3-241035 |
| S3-240804 | Clean up of TS 33.533 | Xiaomi Technology | revised |  | S3-240866 |
| S3-240805 | Discussion on MPQUIC security performance aspects for MASSS | Lenovo | noted |  |  |
| S3-240806 | Add Access Authentication Security Threats to TR 33.700-29 Study on Security and Privacy Aspects of 5G Satellite Access Phase 3 | China Mobile Com. Corporation | withdrawn |  |  |
| S3-240807 | Key issue on primary authentication of store and forward packet issue | Nokia, Nokia Shanghai Bell | merged |  | S3-240934 |
| S3-240808 | Key issue on MT and MO store and forward packet issue | Nokia, Nokia Shanghai Bell | merged |  | S3-240934 |
| S3-240809 | Key issue on secured information exchange at satellite level(UE-SAT-UE) | Nokia, Nokia Shanghai Bell, Philips International B.V., Lenovo, InterDigital Inc | noted |  | - |
| S3-240810 | Key issue on security and privacy aspects of emergency reporting during S&F operations | Nokia, Nokia Shanghai Bell | not treated |  |  |
| S3-240811 | New WID on security aspects of the 5GMSG Service phase 3 | China Mobile | revised | S3-240713 | S3-240952 |
| S3-240812 | Comments to S3-240710 New SID on Study on security aspects of Core Network Enhanced Support for AIML | InterDigital, Inc. | noted |  |  |
| S3-240813 | New SID: end-to-end slice data protection | THALES | noted |  |  |
| S3-240814 | Use case : security data exposure for API security risks on 5G SBA layer | Nokia, Nokia Shanghai Bell, AT&T, Lenovo | revised |  | S3-241004 |
| S3-240815 | Alignments on terminology for roaming intermediaries | Nokia, Nokia Shanghai Bell | revised |  | S3-240890 |
| S3-240816 | Minor additions/modifications for draft TS 33.529 | IIT Bombay | approved |  |  |
| S3-240817 | TS 35.234 skeleton | THALES | approved |  |  |
| S3-240818 | TS 35.235 skeleton | THALES | approved |  |  |
| S3-240819 | TS 35.236 skeleton | THALES | approved |  |  |
| S3-240820 | TS 35.237 Skeleton | THALES | approved |  |  |
| S3-240821 | SL Positioning UE Privacy and Authorization | InterDigital, Europe, Ltd. | not pursued | S3-240384 |  |
| S3-240822 | New key issue on Secure Transport of Messages | Google Inc. | revised |  | S3-240997 |
| S3-240823 | New key issue on Trust Anchors | Google Inc., John Hopkins University APL, Cisco | revised |  | S3-240998 |
| S3-240824 | New key issue on ACME Challenge Validation | Google Inc. | revised |  | S3-240984 |
| S3-240825 | Adding the missing Xn-U interface | Qualcomm Incorporated | agreed |  |  |
| S3-240826 | Report from SA3#113 | MCC | approved | S3-240202 | - |
| S3-240827 | Detailed agenda planning for SA3#115 | SA WG3 Chair | noted | S3-240204 | - |
| S3-240828 | Reply LS on evaluating security aspects for MC services over MC gateway UE | Ericsson, Motorola Solutions | approved | S3-240633 | - |
| S3-240829 | Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | Huawei, HiSilicon | approved | S3-240503 | - |
| S3-240830 | Reply LS on authorization the CCA of the new Data Consumer | Huawei, HiSilicon | approved | S3-240549 | - |
| S3-240831 | Reply LS to CT4 on home network triggered re-authentication | Huawei, HiSilicon | noted | S3-240533 | - |
| S3-240832 | Reply LS to GSMATSG IMSDCAS | Apple | approved | S3-240567 | - |
| S3-240833 | Reply LS on Certificate Management | NTT DOCOMO | approved | S3-240480 | - |
| S3-240834 | Reply LS on MSISDN exposure | Ericsson, Verizon | approved | S3-240631 | - |
| S3-240835 | Response LS to C4-230790 | Lenovo | approved | S3-240770 | - |
| S3-240836 | Reply LS on Ranging/SL Positioning service exposure security and privacy check | Huawei, HiSilicon | approved | S3-240486 | - |
| S3-240837 | Reply LS on AKMA service restrictions | China Mobile | revised | S3-240706 | S3-241042 |
| S3-240838 | LS on AEAD mode of ZUC-256 algorithm | Huawei, HiSilicon, CATT, China Mobile | approved | S3-240484 | - |
| S3-240839 | Reply LS to GSMA on defintion of network product class | Huawei, HiSilicon | approved | S3-240513 | - |
| S3-240840 | Reply LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | Ericsson | approved | S3-240760 | - |
| S3-240841 | SCPAC: Updates to Security for Selective SCG Activation | Ericsson | approved | S3-240746 | - |
| S3-240842 | Correction of UDM service naming | BSI (DE) | agreed | - | - |
| S3-240843 | Correction of UDM service naming | BSI (DE) | agreed | - | - |
| S3-240844 | Correction of UDM service naming | BSI (DE) | agreed | - | - |
| S3-240845 | Add missing RFC4122 in References section | Ericsson | agreed | S3-240395 | - |
| S3-240846 | Add missing RFC4122 in References section | Ericsson | agreed | S3-240396 | - |
| S3-240847 | Add missing RFC4122 in References section | Ericsson | agreed | S3-240397 | - |
| S3-240848 | Clarify pre-registration in CA/RA for NF instance ID verification | Ericsson | agreed | S3-240399 | - |
| S3-240849 | Clarification to flow selection for RNAA | Huawei, HiSilicon | agreed | S3-240427 | - |
| S3-240850 | Add revocation procedure for RNAA-related tokens | Xiaomi | agreed | S3-240792 | - |
| S3-240851 | Update for CAPIF 8 | Xiaomi | agreed | S3-240791 | - |
| S3-240852 | Access token profile for Annex C | Huawei, HiSilicon | agreed | S3-240426 | - |
| S3-240853 | Clear up for HONTRA procedure | ZTE Corporation | agreed | S3-240461 | - |
| S3-240854 | Clarification on alignment of message and failure cause in HONTRA | Huawei, HiSilicon | not pursued | S3-240558 | - |
| S3-240855 | CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | not pursued | S3-240575 | - |
| S3-240856 | Add some context to 5GMSG on AKMA Ua star protocol | ZTE | agreed | S3-240622 | - |
| S3-240857 | Correction of UDM service naming | BSI (DE) | agreed | S3-240329 | - |
| S3-240858 | Updating Internet Drafts to Final RFCs (Rel-17) | Ericsson | agreed | S3-240664 | - |
| S3-240859 | Updating Internet Drafts to Final RFCs (Rel-18) | Ericsson | agreed | S3-240665 | - |
| S3-240860 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | agreed | S3-240725 | - |
| S3-240861 | [33.180] MC gateway authentication and authorization | Motorola Solutions Germany | agreed | S3-240301 | - |
| S3-240862 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | agreed | S3-240506 | - |
| S3-240863 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | agreed | S3-240511 | - |
| S3-240864 | Remove circular reference in U2U Relay discovery Model A | Interdigital | agreed | S3-240388 | - |
| S3-240865 | PC5 security policy for Ranging/SL positioning service | Xiaomi Technology | agreed | S3-240802 | - |
| S3-240866 | Clean up of TS 33.533 | Xiaomi Technology | agreed | S3-240804 | - |
| S3-240867 | Consistency Between NF Profile and Certificate | Ericsson, Deutsche Telekom, China Telecom, KDDI | not pursued | S3-240661 | - |
| S3-240868 | Issue in NSSAA procedures for multiple registration | Huawei, HiSilicon | noted | S3-240428 | - |
| S3-240869 | GSMA - Remove ambiguity from TC 4.4.2 | Keysight Technologies UK Ltd | agreed | S3-240350 | - |
| S3-240870 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | noted | - | - |
| S3-240871 | Clarification on execute steps 3 about operating system to adapt to more scenario | Huawei, HiSilicon | agreed | S3-240531 | - |
| S3-240872 | SMSF Specific Security requirement and test case for draft TS 33.529 | IIT Bombay | approved | S3-240727 | - |
| S3-240873 | Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | IIT Bombay | agreed | S3-240736 | - |
| S3-240874 | Draft TS 33.529 | IIT Bombay | email approval | - | - |
| S3-240875 | Updates on WID on Addition of 256-bit security Algorithms | Nokia, Nokia Shanghai Bell | agreed | S3-240286 | - |
| S3-240876 | Draft CR on CryptoSP TS 33.210 | Ericsson | email approval | - | - |
| S3-240877 | Updates to the IKEv2 profile | Ericsson | not pursued | S3-240675 | - |
| S3-240878 | Updates to the 3GPP TLS profile | Ericsson | not pursued | S3-240676 | - |
| S3-240879 | Update the reference to DTLS 1.3 | ZTE Corporation | agreed | S3-240620 | - |
| S3-240880 | Update the reference to DTLS 1.3 | ZTE | agreed | S3-240621 | - |
| S3-240881 | Draft CR CryptoSP for TS 33.501 | Ericsson | email approval | - | - |
| S3-240882 | Living document for backtracking 5G Roaming changes - Modification of PRINS to enable Roaming Hubs | Huawei, HiSilicon, Vodafone | approved | S3-240545 | - |
| S3-240883 | Placeholder for collecting new changes related to the 5G roaming WID | Huawei, HiSilicon, Vodafone | approved | S3-240546 | - |
| S3-240884 | Backtracking 5G roaming changes | Huawei | endorsed | - | - |
| S3-240885 | Backtracking 5G roaming changes | Huawei | endorsed | - | - |
| S3-240886 | LS reply to S3-240256 on the introduction of the domain ""ipxnetwork.org"" | BSI (DE) | approved | S3-240288 | - |
| S3-240887 | Reply LS on Roaming Hub requirements as applicable to the Modified PRINS solution | Huawei, HiSilicon | approved | S3-240555 | - |
| S3-240888 | Reply LS on IPX Service Hub requirements as applicable to the Modified PRINS solution | Huawei, HiSilicon | approved | S3-240556 | - |
| S3-240889 | Security profiles for PRINS | Nokia, Nokia Shanghai Bell | agreed | S3-240737 | - |
| S3-240890 | Alignments on terminology for roaming intermediaries | Nokia, Nokia Shanghai Bell | agreed | S3-240815 | - |
| S3-240891 | Modification on the definition of Roaming Hub | Huawei, HiSilicon | agreed | S3-240551 | - |
| S3-240892 | Reply LS on CVD-2023-0079 – Lack of GPRS IOV randomisation | Ericsson | approved | S3-240759 | - |
| S3-240893 | Certificate validation on IMS access interface | Ericsson;CableLabs | agreed | S3-240686 | - |
| S3-240894 | LS on GSMA CVD-2023-0075 – Certificate validation on IMS access interface | Ericsson | approved | S3-240687 | - |
| S3-240895 | Validation of the allowed slices in the access token request at NRF | Ericsson | agreed | S3-240681 | - |
| S3-240896 | Draft TR33.794 Skeleton | Lenovo | approved | S3-240314 | - |
| S3-240897 | Scope to TR 33.794 | Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell, Johns Hopkins University APL | approved | S3-240332 | - |
| S3-240898 | Security Assumptions for TR 33.794 | Lenovo, Motorola Mobility, AT&T, Charter Communications, Johns Hopkins University APL | approved | S3-240334 | - |
| S3-240899 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE | agreed | S3-240291 | - |
| S3-240900 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | agreed | S3-240653 | - |
| S3-240901 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | agreed | S3-240654 | - |
| S3-240902 | Security Assumptions for Study on enablers for Zero Trust Security | Nokia, Nokia Shanghai Bell, AT&T, Lenovo | approved | S3-240688 | - |
| S3-240903 | Data related to Malformed Message | Lenovo, Motorola Mobility, AT&T, Charter Communications | approved | S3-240335 | - |
| S3-240904 | Data related to Massive number of Service Messages | Lenovo, Motorola Mobility, AT&T, Charter Communications, Nokia, Nokia Shanghai Bell | approved | S3-240336 | - |
| S3-240905 | ZTS New Data exposure use case: Unauthorized/unauthenticated NF service access request | MITRE Corporation | approved | S3-240383 | - |
| S3-240906 | LS reply on DNS over TLS (DoT) | Nokia, Nokia Shanghai Bell | approved | S3-240587 | - |
| S3-240907 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | agreed | S3-240588 | - |
| S3-240908 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | agreed | S3-240589 | - |
| S3-240909 | Details of the DNS security mechanism in EDGE computing (roaming) | Nokia, Nokia Shanghai Bell | agreed | S3-240590 | - |
| S3-240910 | Update flow of Nnwdaf\_MLModelProvision | Intel Technology Poland SP Zoo | not pursued | S3-240604 | - |
| S3-240911 | Update procedure for secured and authorized AIML model sharing | Huawei, HiSilicon | not pursued | S3-240498 | - |
| S3-240912 | LS on Issues related Analytics context transfer between AnLF(s) | Huawei | approved | - | - |
| S3-240913 | Correct procedure for authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | not pursued | S3-240501 | - |
| S3-240914 | Editorial change on procedure for protection of analytics exchange in roaming case | Huawei, HiSilicon | agreed | S3-240499 | - |
| S3-240915 | AKMA roaming policy control in AAnF | China Mobile | agreed | S3-240708 | - |
| S3-240916 | Corrections to NSWO with CH AAA | Ericsson | not pursued | S3-240627 | - |
| S3-240917 | Replacing SUPI with SUCI in I.10.2.2 | Ericsson | not pursued | S3-240655 | - |
| S3-240918 | Replacing SUPI with SUCI in I.10.3.2 | Ericsson | not pursued | S3-240656 | - |
| S3-240919 | Key issue on 2G or 3G bidding down attack | Samsung | approved | S3-240699 | - |
| S3-240920 | Security assumption | Nokia, Nokia Shanghai Bell,CableLabs | approved | S3-240358 | - |
| S3-240921 | KI for UE connecting to the new TNAP | Nokia, Nokia Shanghai Bell,CableLabs | approved | S3-240360 | - |
| S3-240922 | KI on AUN3 device connecting to the new 5G-RG | Nokia, Nokia Shanghai Bell,CableLabs | approved | S3-240361 | - |
| S3-240923 | KI on N5CW device connecting to the new TWAP | Nokia, Nokia Shanghai Bell,CableLabs | approved | S3-240362 | - |
| S3-240924 | KI on UE connecting to the new WLAN AP under the same NSWOF | Nokia, Nokia Shanghai Bell,CableLabs | approved | S3-240363 | - |
| S3-240925 | Scope | Nokia, Nokia Shanghai Bell,CableLabs | approved | S3-240359 | - |
| S3-240926 | New solution on TNGF mobility | Huawei, HiSilicon | approved | S3-240517 | - |
| S3-240927 | Draft TR 33.702 | Nokia | approved | - | - |
| S3-240928 | Draft TR 33.701 | Huawei | approved | - | - |
| S3-240929 | UE Privacy handling for service exposure through PC5 | Ericsson | agreed | S3-240753 | - |
| S3-240930 | Draft TR 33.700-29 | CATT | approved | - | - |
| S3-240931 | Scope of TR 33.700-29 | CATT, Nokia | approved | S3-240640 | - |
| S3-240932 | Add some terms and abbreviations to TR 33.700-29 | ZTE Corporation | approved | S3-240466 | - |
| S3-240933 | Security assumptions of 5G satellite access phase 3 | Beijing Xiaomi Mobile Software | approved | S3-240780 | - |
| S3-240934 | pCR to TR33.700-29 New key issue for authentication and authorization in S&F Satellite Operation | CATT, China Telecomunication Corp., ZTE Corporation, OPPO, Intel Technology Poland SP Zoo, Samsung, Beijing Xiaomi Mobile Software, Nokia, Nokia Shanghai Bell, Ericsson | approved | S3-240646 | - |
| S3-240935 | Cover sheet Draft TS 33.520 | China Unicom | approved | - | - |
| S3-240936 | Draft TS 35.237 | Thales | approved | - | - |
| S3-240937 | Draft TS 35.234 | Thales | approved | - | - |
| S3-240938 | Draft TS 35.235 | Thales | approved | - | - |
| S3-240939 | Draft TS 35.236 | Thales | approved | - | - |
| S3-240940 | LS on Registering JWT Claims at IANA | Ericsson | approved | - | - |
| S3-240941 | Draft TR 33.790 | China Mobile | approved | - | - |
| S3-240942 | Scope for NG RTC SEC Ph2 SID | China Mobile, Ericsson | approved | S3-240715 | - |
| S3-240943 | TR 33.790 Background clause proposal | Ericsson | approved | S3-240762 | - |
| S3-240944 | Key issue of third party specific user identities | China Mobile, Ericsson | approved | S3-240716 | - |
| S3-240945 | New Key issue on the security of IMS Avatar Communication using Data Channel | Ericsson | approved | S3-240763 | - |
| S3-240946 | new key issue on IMS DC capability exposure | Nokia, Nokia Shanghai Bell | noted | S3-240615 | - |
| S3-240947 | Reply to: LS on service authorization for/to partner MC system | Motorola Solutions | approved | - | - |
| S3-240948 | Clarification on the procedure of UE privacy check | Ericsson | agreed | S3-240752 | - |
| S3-240949 | Clarification on the UE Ranging/SL Positioning privacy profile | Ericsson, Xiaomi | not pursued | S3-240751 | - |
| S3-240950 | LS on security of IP transport over satellite transport links | Ericsson | approved | - | - |
| S3-240951 | R19 SCAS WID | Huawei, HiSilicon | agreed | S3-240529 | - |
| S3-240952 | New WID on security aspects of the 5GMSG Service phase 3 | China Mobile | agreed | S3-240811 | - |
| S3-240953 | New WID\_Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S3-240954 | Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | agreed | S3-240582 | - |
| S3-240955 | Study on Security Aspect of Ambient IoT Services in 5G | OPPO, Apple, BUPT, Cable Labs, CATR, CATT, China Mobile, China Telecom, China Unicom, HiSilicon, Huawei, Intel, Inter Digital, KPN, Lenovo, Philips International B.V., Samsung, T-Mobile USA, Verizon, Vivo, Xiaomi, Xidian University, ZTE | agreed | S3-240296 | - |
| S3-240956 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia,Nokia Shanghai Bell | agreed | S3-240758 | - |
| S3-240957 | New SID on security aspects of Usage of User Identities | InterDigital Belgium. LLC | agreed | S3-240391 | - |
| S3-240958 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240959 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240960 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240961 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240962 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240963 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240964 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240965 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240966 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-240967 | R19 SID on UAS security enhancement | Huawei, HiSilicon | agreed | S3-240422 | - |
| S3-240968 | Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3 | CATT | agreed | S3-240624 | - |
| S3-240969 | New SID on Study on security aspects of AIML enhancements | China Mobile, vivo | agreed | S3-240710 | - |
| S3-240970 | New\_SID\_EdgeComputing | Huawei, HiSilicon | agreed | S3-240552 | - |
| S3-240971 | New SID on security aspects for Multi-Access | Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo, Charter, Intel | agreed | S3-240576 | - |
| S3-240972 | New SID on 5GS enhancements for Energy Saving | Nokia, Nokia Shanghai Bell, OPPO, Telecom Italia | agreed | S3-240652 | - |
| S3-240973 | New SID on Security aspects of 5G NR Femto | Nokia, Nokia Shanghai Bell, Verizon, Samsung, AT&T, Charter | agreed | S3-240690 | - |
| S3-240974 | New SID on security aspects of 5G Mobile Metaverse services | Samsung, Nokia, Nokia Shanghai Bell, IIT Delhi, Lenovo, OPPO | agreed | S3-240703 | - |
| S3-240975 | Study on security aspects of CAPIF Phase 3 | Samsung | noted | S3-240704 | - |
| S3-240976 | Scope of TR 33.757 | China Telecomunication Corp, ZTE, Nokia, Nokia Shanghai Bell | approved | S3-240412 | - |
| S3-240977 | Draft TR 33.757 | China Telecom | approved | - | - |
| S3-240978 | Overview of TR 33.757 | China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell | approved | S3-240413 | - |
| S3-240979 | Security assumptions of TR 33.757 | China Telecomunication Corp., ZTE, Nokia, Nokia Shanghai Bell | approved | S3-240414 | - |
| S3-240980 | new KI - security of signalling message in N4 interface | China Mobile | approved | S3-240718 | - |
| S3-240981 | New KI on dedicated NFs interacting with PLMN through SBA interface | China Telecom, ZTE, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-240416 | - |
| S3-240982 | Draft TR 33.776 | Cisco | approved | - | - |
| S3-240983 | Introduction for TR 33.776 | Google Inc. | approved | S3-240316 | - |
| S3-240984 | New key issue on ACME Challenge Validation | Google Inc. | approved | S3-240824 | - |
| S3-240985 | New key issue on Certificate Enrolment | Johns Hopkins University APL | approved | S3-240367 | - |
| S3-240986 | New key issue on certificate renewal | Johns Hopkins University APL | approved | S3-240369 | - |
| S3-240987 | Scope for TR 33.776 | Google Inc. | approved | S3-240317 | - |
| S3-240988 | Revised SID on the security support for the Next Generation Real Time Communication services Phase 2 | Ericsson, China Mobile,Nokia, Nokia Shanghai Bell | agreed | S3-240764 | - |
| S3-240989 | Key issues on Introduction of 256-bit algorithms in 5G system | Huawei, HiSilicon | noted | S3-240492 | - |
| S3-240990 | SCPAC: Updates to Security for Selective SCG Activation | Samsung, Ericsson, Huawei, HiSilicon, Apple, Nokia, Nokia Shanghai Bell, Intel | agreed | - | - |
| S3-240991 | UPU Header Security | Lenovo | not pursued | S3-240754 | - |
| S3-240992 | Clarification on the function of UE ID trusted non-3GPP access | Huawei, HiSilicon | agreed | S3-240530 | - |
| S3-240993 | Correction to validation of usage of X.509 certificate procedure | Nokia, Nokia Shanghai Bell, Ericsson | not pursued | S3-240583 | - |
| S3-240994 | Rel18 ProSe – Clarification on direct discovery set protection in U2U relay discovery with model A | Qualcomm Incorporated | agreed | S3-240732 | - |
| S3-240995 | KAF re-keying after expiration triggered by AAnF | ZTE Corporation | agreed | S3-240449 | - |
| S3-240996 | LS on AKMA service restrictions in roaming | NDRE | revised | S3-240366 | S3-241043 |
| S3-240997 | New key issue on Secure Transport of Messages | Google Inc. | approved | S3-240822 | - |
| S3-240998 | New key issue on Trust Anchors | Google Inc., John Hopkins University APL, Cisco | approved | S3-240823 | - |
| S3-240999 | LS on AAD modes | NTT-Docomo | noted | - | - |
| S3-241000 | Reply LS on Clarification related to reliable location | Ericsson | noted | S3-240638 | - |
| S3-241001 | Added parameters to NRF discovery authorization | BSI (DE) | not pursued | S3-240562 | - |
| S3-241002 | Cleans up AMF and SMF relation for UUAA | Lenovo | agreed | S3-240767 | - |
| S3-241003 | Cleans up AMF and SMF relation for UUAA | Lenovo | agreed | S3-240768 | - |
| S3-241004 | Use case : security data exposure for API security risks on 5G SBA layer | Nokia, Nokia Shanghai Bell, AT&T, Lenovo | approved | S3-240814 | - |
| S3-241005 | KI related to WT1 | Lenovo, Motorola Mobility, AT&T | approved | S3-240337 | - |
| S3-241006 | Add terms to TR 33.757 | ZTE Corporation | approved | S3-240468 | - |
| S3-241007 | Key issue on SUPI privacy issue in PLMN hosting NPN Scenario | IIT Delhi, IIT Bhilai, Samsung | approved | S3-240474 | - |
| S3-241008 | Scope definition for TR 33.700-41 | KDDI Corporation | approved | S3-240320 | - |
| S3-241009 | Assumption proposal for the 256-bit algorithm introduction study | Huawei, HiSilicon | approved | S3-240543 | - |
| S3-241010 | Draft TR 33.700-41 | KDDI | email approval | - | - |
| S3-241011 | Draft TS 35.240 | Nokia | approved | - | - |
| S3-241012 | Draft TS 35.241 | Nokia | approved | - | - |
| S3-241013 | Draft TS 35.242 | Nokia | approved | - | - |
| S3-241014 | Draft TS 35.243 | Nokia | approved | - | - |
| S3-241015 | Draft TS 35.244 | Nokia | approved | - | - |
| S3-241016 | Draft TS 35.245 | Nokia | approved | - | - |
| S3-241017 | Draft TS 35.246 | Nokia | approved | - | - |
| S3-241018 | Draft TS 35.247 | Nokia | approved | - | - |
| S3-241019 | Draft TS 35.248 | Nokia | approved | - | - |
| S3-241020 | ZTS New data exposure use case: Topology discovery | MITRE Corporation | approved | S3-240385 | - |
| S3-241021 | Usecase for security policy enforcement | Lenovo, Motorola Mobility, AT&T | approved | S3-240338 | - |
| S3-241022 | Key Issue on insufficient entropy due to permanent secret key length (K) | Samsung | noted | S3-240698 | - |
| S3-241023 | Cover sheet TS 33.240 | Nokia | approved | - | - |
| S3-241024 | Cover sheet TS 33.241 | Nokia | approved | - | - |
| S3-241025 | Cover sheet TS 33.242 | Nokia | approved | - | - |
| S3-241026 | Cover sheet TS 33.243 | Nokia | approved | - | - |
| S3-241027 | Cover sheet TS 33.244 | Nokia | approved | - | - |
| S3-241028 | Cover sheet TS 33.245 | Nokia | approved | - | - |
| S3-241029 | Cover sheet TS 33.246 | Nokia | approved | - | - |
| S3-241030 | Cover sheet TS 33.247 | Nokia | approved | - | - |
| S3-241031 | Cover sheet TS 33.248 | Nokia | approved | - | - |
| S3-241032 | Add VM traffic isolation security threat to TR 33.927 3GPp virtualized network product classes | China Mobile Com. Corporation | agreed | S3-240775 | - |
| S3-241033 | Clause 6.1.3.2.3 - Clarification related to the direct discovery set | Philips International B.V. | agreed | S3-240340 | - |
| S3-241034 | Update on UE role authorization during discovery | Qualcomm Incorporated | agreed | S3-240734 | - |
| S3-241035 | Adding notes for Ranging/SL positioning broadcast/groupcast communication | Xiaomi Technology | agreed | S3-240803 | - |
| S3-241036 | Clarification on the usage of N32-f context ID and N32-f message ID | Huawei, HiSilicon | agreed | S3-240550 | - |
| S3-241037 | LS on backtracking 5G roaming changes | Huawei | approved | - | - |
| S3-241038 | Draft TR 33.794 | Lenovo | approved | - | - |
| S3-241039 | Alignment of 33.122 for RNAA | NTT DOCOMO | agreed | S3-240475 | - |
| S3-241040 | New WID on AKMA service disabling | Nokia, Nokia Shanghai Bell, NDRE | agreed | S3-240357 | - |
| S3-241041 | New SID on security aspects NR mobility enhancement | Samsung | noted | S3-240705 | - |
| S3-241042 | Reply LS on AKMA service restrictions | China Mobile | approved | S3-240837 | - |
| S3-241043 | LS on AKMA service restrictions in roaming | NDRE | available | S3-240996 | - |

### A2: Tdoc decision timing

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| --- | --- | --- |
| Document | Date/time UTC | Decision |
| C3-195000 | 01/01/2020 10:26:05 | approved |
| C3-195000 | 01/01/2020 10:26:15 | noted |
| C3-195000 | 01/01/2020 10:26:22 | approved |
| C3-195000 | 21/02/2020 14:30:18 | agreed |
| C3-195000 | 21/02/2020 14:30:38 | noted |
| C3-195000 | 22/02/2020 08:50:03 | agreed |
| C3-195000 | 22/02/2020 08:50:06 | noted |
| C3-195000 | 22/02/2020 08:54:01 | postponed |
| C3-195000 | 22/02/2020 08:54:09 | noted |
| C3-195183 | 01/01/2020 10:32:41 | postponed |
| C3-195183 | 01/01/2020 13:52:18 | noted |
| C3-195183 | 01/01/2020 13:52:25 | approved |
| C3-195183 | 01/01/2020 13:52:27 | noted |
| C3-195183 | 01/01/2020 13:52:31 | agreed |
| C3-195183 | 01/01/2020 13:52:36 | postponed |
| S3-200050 | 06/03/2020 15:06:48 | approved |
| S3-200051 | 09/03/2020 11:06:14 | available |
| S3-200052 | 09/03/2020 09:26:00 | postponed |
| S3-200053 | 09/03/2020 09:26:07 | postponed |
| S3-200054 | 09/03/2020 11:41:42 | noted |
| S3-200055 | 09/03/2020 11:42:27 | postponed |
| S3-200056 | 09/03/2020 11:42:31 | postponed |
| S3-200057 | 09/03/2020 11:42:48 | available |
| S3-200058 | 09/03/2020 09:26:13 | noted |
| S3-200059 | 09/03/2020 09:26:20 | postponed |
| S3-200060 | 09/03/2020 09:26:25 | noted |
| S3-200061 | 09/03/2020 09:30:12 | noted |
| S3-200062 | 09/03/2020 08:51:43 | noted |
| S3-200063 | 09/03/2020 11:04:09 | noted |
| S3-200064 | 09/03/2020 09:43:31 | postponed |
| S3-200065 | 09/03/2020 08:53:49 | postponed |
| S3-200066 | 09/03/2020 08:53:54 | noted |
| S3-200067 | 09/03/2020 11:06:48 | postponed |
| S3-200068 | 09/03/2020 08:53:59 | postponed |
| S3-200069 | 09/03/2020 09:14:30 | postponed |
| S3-200070 | 09/03/2020 08:52:47 | available |
| S3-200071 | 09/03/2020 08:54:07 | postponed |
| S3-200072 | 09/03/2020 08:54:11 | postponed |
| S3-200073 | 09/03/2020 11:43:41 | available |
| S3-200074 | 09/03/2020 11:44:03 | available |
| S3-200075 | 09/03/2020 11:44:22 | available |
| S3-200076 | 09/03/2020 11:44:29 | available |
| S3-200077 | 09/03/2020 11:44:38 | available |
| S3-200078 | 09/03/2020 12:03:17 | noted |
| S3-200080 | 09/03/2020 09:14:36 | agreed |
| S3-200082 | 09/03/2020 11:37:45 | noted |
| S3-200083 | 09/03/2020 11:04:12 | agreed |
| S3-200084 | 09/03/2020 09:14:55 | agreed |
| S3-200085 | 09/03/2020 11:44:49 | noted |
| S3-200086 | 09/03/2020 11:44:52 | noted |
| S3-200087 | 09/03/2020 11:44:56 | approved |
| S3-200088 | 09/03/2020 11:45:05 | approved |
| S3-200093 | 09/03/2020 11:36:51 | noted |
| S3-200096 | 09/03/2020 11:36:58 | approved |
| S3-200105 | 09/03/2020 09:30:16 | noted |
| S3-200106 | 09/03/2020 09:30:23 | available |
| S3-200107 | 09/03/2020 11:45:12 | noted |
| S3-200108 | 09/03/2020 11:45:18 | approved |
| S3-200109 | 09/03/2020 09:26:42 | available |
| S3-200111 | 09/03/2020 11:57:18 | noted |
| S3-200112 | 09/03/2020 11:57:22 | noted |
| S3-200113 | 09/03/2020 11:57:24 | noted |
| S3-200114 | 09/03/2020 11:57:31 | noted |
| S3-200115 | 09/03/2020 11:06:51 | noted |
| S3-200116 | 09/03/2020 11:06:57 | noted |
| S3-200117 | 10/03/2020 14:13:15 | noted |
| S3-200118 | 09/03/2020 11:34:48 | noted |
| S3-200119 | 09/03/2020 11:34:52 | noted |
| S3-200120 | 09/03/2020 11:34:57 | noted |
| S3-200121 | 09/03/2020 11:35:00 | noted |
| S3-200122 | 09/03/2020 11:35:05 | noted |
| S3-200123 | 09/03/2020 11:35:25 | available |
| S3-200124 | 09/03/2020 11:45:24 | noted |
| S3-200125 | 09/03/2020 11:45:35 | noted |
| S3-200126 | 09/03/2020 08:54:21 | noted |
| S3-200127 | 09/03/2020 08:54:27 | noted |
| S3-200128 | 09/03/2020 08:54:34 | noted |
| S3-200130 | 09/03/2020 09:33:37 | noted |
| S3-200131 | 09/03/2020 09:33:58 | available |
| S3-200132 | 09/03/2020 09:34:49 | noted |
| S3-200133 | 09/03/2020 09:35:07 | noted |
| S3-200134 | 09/03/2020 09:35:11 | noted |
| S3-200135 | 09/03/2020 09:35:14 | noted |
| S3-200143 | 09/03/2020 11:57:46 | available |
| S3-200149 | 09/03/2020 11:35:38 | noted |
| S3-200150 | 09/03/2020 11:35:45 | noted |
| S3-200152 | 09/03/2020 12:08:16 | noted |
| S3-200153 | 09/03/2020 12:08:19 | noted |
| S3-200154 | 09/03/2020 12:08:22 | noted |
| S3-200155 | 09/03/2020 12:08:27 | noted |
| S3-200156 | 09/03/2020 11:35:57 | noted |
| S3-200157 | 09/03/2020 11:36:01 | noted |
| S3-200158 | 09/03/2020 11:36:04 | noted |
| S3-200159 | 09/03/2020 11:36:09 | noted |
| S3-200160 | 09/03/2020 09:27:07 | available |
| S3-200161 | 09/03/2020 11:45:42 | noted |
| S3-200162 | 09/03/2020 11:45:47 | noted |
| S3-200164 | 09/03/2020 11:38:06 | approved |
| S3-200165 | 09/03/2020 11:38:23 | available |
| S3-200167 | 09/03/2020 11:40:38 | approved |
| S3-200168 | 09/03/2020 11:40:41 | noted |
| S3-200169 | 09/03/2020 11:40:46 | noted |
| S3-200170 | 09/03/2020 11:46:24 | available |
| S3-200171 | 09/03/2020 09:34:57 | noted |
| S3-200172 | 09/03/2020 09:27:24 | available |
| S3-200173 | 09/03/2020 09:27:37 | noted |
| S3-200174 | 09/03/2020 09:27:43 | available |
| S3-200176 | 09/03/2020 09:43:34 | noted |
| S3-200177 | 09/03/2020 09:43:36 | noted |
| S3-200178 | 09/03/2020 12:08:33 | noted |
| S3-200179 | 09/03/2020 12:08:37 | noted |
| S3-200181 | 09/03/2020 09:35:35 | noted |
| S3-200182 | 09/03/2020 09:35:38 | noted |
| S3-200183 | 09/03/2020 11:58:45 | available |
| S3-200189 | 09/03/2020 09:29:34 | approved |
| S3-200190 | 09/03/2020 09:29:38 | noted |
| S3-200192 | 09/03/2020 12:08:43 | noted |
| S3-200193 | 09/03/2020 09:30:32 | noted |
| S3-200194 | 09/03/2020 09:30:37 | noted |
| S3-200200 | 03/03/2020 14:29:33 | withdrawn |
| S3-200202 | 09/03/2020 11:59:05 | available |
| S3-200204 | 09/03/2020 11:59:21 | available |
| S3-200205 | 09/03/2020 11:59:26 | noted |
| S3-200206 | 09/03/2020 11:59:29 | noted |
| S3-200207 | 09/03/2020 11:59:35 | noted |
| S3-200208 | 09/03/2020 11:59:38 | noted |
| S3-200209 | 05/03/2020 09:56:13 | available |
| S3-200212 | 09/03/2020 11:47:01 | available |
| S3-200213 | 09/03/2020 09:27:50 | noted |
| S3-200214 | 09/03/2020 12:08:46 | noted |
| S3-200215 | 09/03/2020 09:30:43 | available |
| S3-200217 | 09/03/2020 08:56:02 | available |
| S3-200218 | 09/03/2020 11:47:21 | available |
| S3-200219 | 09/03/2020 11:47:26 | noted |
| S3-200220 | 09/03/2020 11:59:44 | available |
| S3-200221 | 09/03/2020 11:59:51 | available |
| S3-200222 | 09/03/2020 11:59:57 | noted |
| S3-200227 | 09/03/2020 09:44:01 | noted |
| S3-200238 | 09/03/2020 11:47:30 | noted |
| S3-200239 | 09/03/2020 11:47:53 | available |
| S3-200240 | 09/03/2020 11:48:02 | noted |
| S3-200241 | 09/03/2020 11:48:07 | approved |
| S3-200248 | 09/03/2020 09:35:56 | noted |
| S3-200249 | 09/03/2020 09:36:00 | approved |
| S3-200252 | 09/03/2020 09:36:26 | noted |
| S3-200253 | 09/03/2020 09:37:19 | available |
| S3-200254 | 09/03/2020 09:37:25 | noted |
| S3-200255 | 09/03/2020 09:37:44 | available |
| S3-200256 | 09/03/2020 09:38:02 | available |
| S3-200258 | 09/03/2020 09:38:18 | noted |
| S3-200259 | 09/03/2020 09:38:25 | noted |
| S3-200260 | 09/03/2020 09:40:27 | withdrawn |
| S3-200261 | 09/03/2020 12:08:50 | noted |
| S3-200265 | 09/03/2020 09:44:22 | noted |
| S3-200266 | 09/03/2020 09:44:26 | noted |
| S3-200267 | 09/03/2020 12:09:07 | noted |
| S3-200268 | 09/03/2020 12:09:10 | noted |
| S3-200269 | 09/03/2020 09:29:45 | noted |
| S3-200275 | 09/03/2020 09:23:34 | agreed |
| S3-200278 | 09/03/2020 11:50:42 | noted |
| S3-200279 | 09/03/2020 12:09:14 | noted |
| S3-200280 | 09/03/2020 12:09:27 | agreed |
| S3-200280 | 10/03/2020 13:02:42 | revised |
| S3-200281 | 09/03/2020 12:09:34 | noted |
| S3-200283 | 09/03/2020 09:31:08 | noted |
| S3-200284 | 09/03/2020 09:31:18 | noted |
| S3-200285 | 09/03/2020 09:31:23 | approved |
| S3-200286 | 09/03/2020 09:31:27 | noted |
| S3-200287 | 09/03/2020 09:31:37 | noted |
| S3-200288 | 09/03/2020 09:31:42 | available |
| S3-200289 | 09/03/2020 09:31:51 | noted |
| S3-200290 | 09/03/2020 09:31:56 | noted |
| S3-200294 | 09/03/2020 09:40:57 | noted |
| S3-200295 | 09/03/2020 09:41:04 | noted |
| S3-200296 | 09/03/2020 09:41:08 | noted |
| S3-200297 | 09/03/2020 09:41:12 | noted |
| S3-200298 | 09/03/2020 09:41:19 | noted |
| S3-200299 | 09/03/2020 09:41:24 | noted |
| S3-200300 | 09/03/2020 09:41:36 | noted |
| S3-200301 | 09/03/2020 09:41:42 | noted |
| S3-200302 | 09/03/2020 09:44:48 | available |
| S3-200303 | 09/03/2020 09:44:57 | available |
| S3-200304 | 09/03/2020 09:45:08 | noted |
| S3-200306 | 09/03/2020 09:45:17 | available |
| S3-200307 | 09/03/2020 08:29:02 | revised |
| S3-200308 | 09/03/2020 09:45:35 | noted |
| S3-200309 | 09/03/2020 09:45:38 | noted |
| S3-200310 | 09/03/2020 09:45:42 | noted |
| S3-200311 | 09/03/2020 08:51:21 | approved |
| S3-200312 | 09/03/2020 09:16:48 | available |
| S3-200313 | 09/03/2020 08:26:01 | revised |
| S3-200314 | 09/03/2020 12:09:37 | noted |
| S3-200315 | 09/03/2020 12:09:41 | noted |
| S3-200316 | 09/03/2020 09:41:49 | noted |
| S3-200318 | 09/03/2020 11:56:17 | agreed |
| S3-200320 | 09/03/2020 12:00:28 | available |
| S3-200321 | 09/03/2020 11:48:16 | available |
| S3-200322 | 09/03/2020 11:04:27 | approved |
| S3-200323 | 09/03/2020 11:04:32 | approved |
| S3-200324 | 09/03/2020 11:04:38 | approved |
| S3-200325 | 09/03/2020 11:04:42 | noted |
| S3-200326 | 09/03/2020 11:04:47 | approved |
| S3-200327 | 09/03/2020 11:04:52 | noted |
| S3-200329 | 09/03/2020 11:05:05 | noted |
| S3-200330 | 09/03/2020 11:05:09 | noted |
| S3-200332 | 09/03/2020 11:56:37 | agreed |
| S3-200334 | 09/03/2020 11:56:53 | agreed |
| S3-200339 | 09/03/2020 09:29:50 | noted |
| S3-200340 | 09/03/2020 08:54:40 | noted |
| S3-200341 | 09/03/2020 12:08:05 | agreed |
| S3-200341 | 09/03/2020 12:09:51 | noted |
| S3-200343 | 09/03/2020 11:48:35 | noted |
| S3-200344 | 09/03/2020 11:48:40 | noted |
| S3-200350 | 09/03/2020 11:49:25 | agreed |
| S3-200351 | 09/03/2020 11:49:55 | available |
| S3-200353 | 09/03/2020 08:54:45 | noted |
| S3-200354 | 09/03/2020 08:54:50 | noted |
| S3-200355 | 09/03/2020 12:10:01 | noted |
| S3-200356 | 09/03/2020 11:03:49 | withdrawn |
| S3-200357 | 09/03/2020 11:03:55 | noted |
| S3-200359 | 09/03/2020 08:53:06 | noted |
| S3-200360 | 09/03/2020 11:37:12 | noted |
| S3-200364 | 09/03/2020 09:42:06 | approved |
| S3-200365 | 09/03/2020 09:42:10 | noted |
| S3-200366 | 09/03/2020 09:42:14 | approved |
| S3-200367 | 09/03/2020 09:25:24 | available |
| S3-200368 | 09/03/2020 09:25:43 | noted |
| S3-200369 | 09/03/2020 09:25:51 | noted |
| S3-200370 | 09/03/2020 09:28:07 | available |
| S3-200371 | 09/03/2020 09:28:17 | available |
| S3-200372 | 09/03/2020 12:02:45 | noted |
| S3-200373 | 09/03/2020 09:23:49 | agreed |
| S3-200374 | 09/03/2020 08:54:59 | noted |
| S3-200387 | 09/03/2020 09:29:04 | agreed |
| S3-200388 | 09/03/2020 09:29:08 | agreed |
| S3-200391 | 09/03/2020 09:42:28 | noted |
| S3-200393 | 09/03/2020 11:36:13 | noted |
| S3-200394 | 09/03/2020 12:10:15 | agreed |
| S3-200394 | 10/03/2020 12:04:20 | revised |
| S3-200395 | 09/03/2020 12:10:19 | noted |
| S3-200396 | 09/03/2020 12:10:22 | noted |
| S3-200397 | 25/02/2020 14:06:37 | withdrawn |
| S3-200397 | 09/03/2020 08:56:44 | agreed |
| S3-200398 | 25/02/2020 14:06:39 | withdrawn |
| S3-200398 | 09/03/2020 08:56:51 | available |
| S3-200399 | 09/03/2020 11:51:32 | agreed |
| S3-200399 | 12/03/2020 09:23:15 | revised |
| S3-200400 | 09/03/2020 11:36:17 | noted |
| S3-200401 | 09/03/2020 11:51:24 | available |
| S3-200402 | 09/03/2020 09:29:57 | noted |
| S3-200403 | 03/03/2020 14:29:37 | withdrawn |
| S3-200404 | 03/03/2020 14:29:39 | withdrawn |
| S3-200405 | 09/03/2020 09:32:14 | available |
| S3-200406 | 09/03/2020 09:32:19 | noted |
| S3-200408 | 09/03/2020 09:32:26 | noted |
| S3-200409 | 10/03/2020 12:31:36 | revised |
| S3-200410 | 09/03/2020 09:32:33 | available |
| S3-200411 | 09/03/2020 09:32:43 | available |
| S3-200412 | 09/03/2020 09:32:44 | available |
| S3-200413 | 09/03/2020 11:05:13 | noted |
| S3-200415 | 25/02/2020 12:46:21 | withdrawn |
| S3-200416 | 09/03/2020 11:05:18 | approved |
| S3-200417 | 25/02/2020 12:46:23 | withdrawn |
| S3-200419 | 09/03/2020 11:57:00 | available |
| S3-200420 | 09/03/2020 11:57:08 | available |
| S3-200421 | 09/03/2020 09:32:54 | noted |
| S3-200422 | 09/03/2020 12:02:54 | postponed |
| S3-200424 | 09/03/2020 11:50:11 | noted |
| S3-200425 | 09/03/2020 09:32:57 | noted |
| S3-200427 | 09/03/2020 09:33:08 | noted |
| S3-200428 | 06/03/2020 15:06:51 | noted |
| S3-200429 | 09/03/2020 09:42:59 | noted |
| S3-200430 | 09/03/2020 08:55:02 | postponed |
| S3-200432 | 09/03/2020 11:03:59 | noted |
| S3-200433 | 09/03/2020 11:50:18 | postponed |
| S3-200434 | 09/03/2020 11:51:47 | available |
| S3-200435 | 09/03/2020 12:03:06 | agreed |
| S3-200436 | 10/03/2020 14:19:52 | agreed |
| S3-200437 | 10/03/2020 14:20:37 | agreed |
| S3-200438 | 09/03/2020 09:43:04 | noted |
| S3-200438 | 09/03/2020 09:43:09 | approved |
| S3-200438 | 10/03/2020 09:01:42 | revised |
| S3-200439 | 09/03/2020 12:10:37 | agreed |
| S3-200440 | 10/03/2020 14:18:25 | revised |
| S3-200441 | 10/03/2020 14:10:28 | agreed |
| S3-200442 | 09/03/2020 11:05:54 | approved |
| S3-200443 | 09/03/2020 11:36:34 | approved |
| S3-200444 | 10/03/2020 14:15:30 | agreed |
| S3-200445 | 10/03/2020 14:15:54 | agreed |
| S3-200446 | 10/03/2020 14:16:07 | agreed |
| S3-200447 | 09/03/2020 09:36:52 | approved |
| S3-200448 | 09/03/2020 11:04:58 | approved |
| S3-200449 | 09/03/2020 11:41:25 | approved |
| S3-200450 | 09/03/2020 11:41:31 | agreed |
| S3-200451 | 09/03/2020 11:37:57 | approved |
| S3-200452 | 09/03/2020 11:40:32 | approved |
| S3-200453 | 10/03/2020 15:21:08 | withdrawn |
| S3-200454 | 09/03/2020 09:29:18 | agreed |
| S3-200455 | 09/03/2020 09:26:54 | agreed |
| S3-200456 | 09/03/2020 09:28:49 | agreed |
| S3-200457 | 09/03/2020 09:28:55 | agreed |
| S3-200458 | 09/03/2020 11:37:05 | approved |
| S3-200459 | 09/03/2020 12:08:58 | agreed |
| S3-200460 | 09/03/2020 09:36:10 | approved |
| S3-200461 | 09/03/2020 09:36:16 | approved |
| S3-200462 | 09/03/2020 11:56:10 | agreed |
| S3-200463 | 09/03/2020 09:38:09 | approved |
| S3-200464 | 09/03/2020 11:56:23 | agreed |
| S3-200465 | 09/03/2020 11:56:30 | agreed |
| S3-200466 | 09/03/2020 11:56:45 | agreed |
| S3-200467 | 11/03/2020 11:26:56 | approved |
| S3-200468 | 09/03/2020 11:46:37 | approved |
| S3-200469 | 09/03/2020 09:24:08 | approved |
| S3-200470 | 10/03/2020 09:25:20 | revised |
| S3-200471 | 09/03/2020 09:24:59 | approved |
| S3-200472 | 09/03/2020 09:23:57 | agreed |
| S3-200473 | 09/03/2020 08:55:30 | agreed |
| S3-200474 | 09/03/2020 09:43:52 | approved |
| S3-200475 | 09/03/2020 09:44:08 | approved |
| S3-200476 | 09/03/2020 09:44:13 | approved |
| S3-200477 | 09/03/2020 12:00:07 | agreed |
| S3-200478 | 09/03/2020 11:42:11 | approved |
| S3-200479 | 09/03/2020 12:00:11 | agreed |
| S3-200480 | 09/03/2020 09:27:57 | agreed |
| S3-200481 | 09/03/2020 11:50:33 | agreed |
| S3-200482 | 09/03/2020 11:50:49 | approved |
| S3-200483 | 10/03/2020 14:11:38 | agreed |
| S3-200484 | 10/03/2020 14:11:30 | agreed |
| S3-200485 | 11/03/2020 07:44:16 | agreed |
| S3-200486 | 09/03/2020 09:37:33 | approved |
| S3-200487 | 09/03/2020 09:31:00 | agreed |
| S3-200488 | 10/03/2020 14:13:37 | agreed |
| S3-200489 | 09/03/2020 09:32:04 | agreed |
| S3-200490 | 09/03/2020 12:01:05 | agreed |
| S3-200491 | 10/03/2020 14:30:50 | agreed |
| S3-200492 | 09/03/2020 11:40:54 | approved |
| S3-200493 | 09/03/2020 11:38:13 | approved |
| S3-200494 | 09/03/2020 11:41:07 | approved |
| S3-200495 | 09/03/2020 11:41:12 | approved |
| S3-200496 | 09/03/2020 11:44:13 | approved |
| S3-200497 | 09/03/2020 08:55:53 | agreed |
| S3-200498 | 09/03/2020 08:56:10 | agreed |
| S3-200499 | 09/03/2020 09:35:45 | approved |
| S3-200500 | 10/03/2020 14:13:56 | approved |
| S3-200501 | 09/03/2020 11:46:50 | approved |
| S3-200502 | 09/03/2020 08:55:15 | agreed |
| S3-200503 | 09/03/2020 08:55:19 | agreed |
| S3-200504 | 09/03/2020 08:56:25 | agreed |
| S3-200505 | 09/03/2020 08:56:29 | agreed |
| S3-200506 | 09/03/2020 11:48:52 | approved |
| S3-200507 | 09/03/2020 11:43:29 | approved |
| S3-200508 | 09/03/2020 11:47:11 | approved |
| S3-200509 | 09/03/2020 11:49:13 | approved |
| S3-200510 | 09/03/2020 11:43:54 | approved |
| S3-200511 | 09/03/2020 09:33:28 | approved |
| S3-200512 | 09/03/2020 09:35:21 | approved |
| S3-200513 | 09/03/2020 09:33:49 | approved |
| S3-200514 | 09/03/2020 09:14:46 | agreed |
| S3-200515 | 09/03/2020 09:15:01 | agreed |
| S3-200516 | 09/03/2020 09:43:43 | agreed |
| S3-200517 | 09/03/2020 11:58:13 | approved |
| S3-200517 | 10/03/2020 14:26:53 | revised |
| S3-200518 | 09/03/2020 09:46:05 | approved |
| S3-200519 | 09/03/2020 09:45:27 | approved |
| S3-200520 | 11/03/2020 11:26:50 | agreed |
| S3-200521 | 12/03/2020 14:26:21 | approved |
| S3-200522 | 10/03/2020 14:09:33 | agreed |
| S3-200523 | 10/03/2020 09:01:44 | approved |
| S3-200524 | 10/03/2020 15:26:53 | agreed |
| S3-200525 | 10/03/2020 14:28:48 | agreed |
| S3-200526 | 10/03/2020 14:29:11 | agreed |
| S3-200527 | 11/03/2020 07:30:12 | agreed |
| S3-200528 | 12/03/2020 14:26:14 | approved |
| S3-200529 | 10/03/2020 15:06:54 | approved |
| S3-200530 | 12/03/2020 09:23:18 | agreed |
| S3-240200 | 26/02/2024 07:11:40 | approved |
| S3-240201 | 26/02/2024 07:18:09 | approved |
| S3-240202 | 21/02/2024 09:41:02 | available |
| S3-240202 | 21/02/2024 09:41:11 | revised |
| S3-240203 | 26/02/2024 07:12:14 | noted |
| S3-240204 | 21/02/2024 08:00:48 | revised |
| S3-240205 | 01/03/2024 13:21:21 | noted |
| S3-240206 | 26/02/2024 07:23:38 | noted |
| S3-240207 | 22/02/2024 12:57:17 | revised |
| S3-240207 | 28/02/2024 16:35:43 | approved |
| S3-240208 | 27/02/2024 14:37:02 | available |
| S3-240209 | 27/02/2024 14:37:26 | available |
| S3-240210 | 27/02/2024 14:28:31 | noted |
| S3-240211 | 27/02/2024 14:37:41 | noted |
| S3-240212 | 27/02/2024 14:36:41 | noted |
| S3-240213 | 27/02/2024 14:37:46 | noted |
| S3-240214 | 26/02/2024 07:33:42 | postponed |
| S3-240214 | 28/02/2024 09:50:30 | replied to |
| S3-240215 | 26/02/2024 07:43:43 | available |
| S3-240216 | 26/02/2024 07:47:22 | available |
| S3-240217 | 26/02/2024 07:48:11 | noted |
| S3-240218 | 26/02/2024 07:48:35 | noted |
| S3-240219 | 29/02/2024 09:17:46 | noted |
| S3-240220 | 26/02/2024 07:55:34 | available |
| S3-240220 | 01/03/2024 11:18:05 | postponed |
| S3-240221 | 27/02/2024 14:30:06 | noted |
| S3-240222 | 26/02/2024 07:57:20 | noted |
| S3-240223 | 26/02/2024 08:06:22 | postponed |
| S3-240224 | 26/02/2024 08:09:52 | available |
| S3-240225 | 27/02/2024 14:57:45 | available |
| S3-240225 | 27/02/2024 14:57:49 | reple |
| S3-240226 | 26/02/2024 08:20:59 | noted |
| S3-240227 | 26/02/2024 08:29:20 | available |
| S3-240228 | 26/02/2024 07:48:38 | noted |
| S3-240229 | 26/02/2024 10:16:37 | available |
| S3-240230 | 26/02/2024 09:09:06 | available |
| S3-240230 | 27/02/2024 14:47:16 | noted |
| S3-240231 | 26/02/2024 09:12:52 | noted |
| S3-240232 | 26/02/2024 09:13:55 | noted |
| S3-240233 | 26/02/2024 09:21:56 | noted |
| S3-240234 | 27/02/2024 17:02:14 | replied to |
| S3-240234 | 29/02/2024 12:23:02 | available |
| S3-240234 | 01/03/2024 09:44:57 | postponed |
| S3-240235 | 26/02/2024 09:08:27 | noted |
| S3-240236 | 26/02/2024 09:31:30 | available |
| S3-240237 | 26/02/2024 09:14:09 | noted |
| S3-240238 | 27/02/2024 16:59:58 | available |
| S3-240239 | 26/02/2024 09:33:56 | noted |
| S3-240240 | 26/02/2024 09:34:10 | noted |
| S3-240241 | 26/02/2024 09:34:27 | noted |
| S3-240242 | 26/02/2024 09:12:59 | noted |
| S3-240243 | 26/02/2024 07:43:16 | available |
| S3-240243 | 26/02/2024 07:43:40 | noted |
| S3-240244 | 26/02/2024 09:35:34 | noted |
| S3-240245 | 26/02/2024 09:08:45 | available |
| S3-240245 | 26/02/2024 09:09:01 | replied to |
| S3-240245 | 26/02/2024 09:09:35 | available |
| S3-240246 | 01/03/2024 10:04:02 | noted |
| S3-240247 | 26/02/2024 09:35:55 | noted |
| S3-240248 | 26/02/2024 09:36:11 | noted |
| S3-240249 | 26/02/2024 08:21:09 | noted |
| S3-240250 | 26/02/2024 09:37:09 | noted |
| S3-240251 | 26/02/2024 07:39:02 | available |
| S3-240252 | 26/02/2024 09:38:36 | noted |
| S3-240253 | 26/02/2024 08:21:12 | noted |
| S3-240254 | 26/02/2024 09:56:33 | noted |
| S3-240255 | 26/02/2024 08:11:45 | noted |
| S3-240256 | 27/02/2024 14:27:48 | available |
| S3-240257 | 26/02/2024 09:52:02 | available |
| S3-240258 | 26/02/2024 09:24:24 | available |
| S3-240259 | 27/02/2024 15:08:35 | available |
| S3-240260 | 01/03/2024 13:14:03 | postponed |
| S3-240261 | 26/02/2024 09:56:31 | noted |
| S3-240262 | 26/02/2024 10:06:50 | noted |
| S3-240263 | 26/02/2024 10:07:46 | noted |
| S3-240264 | 26/02/2024 10:08:09 | noted |
| S3-240264 | 01/03/2024 11:24:46 | available |
| S3-240265 | 26/02/2024 08:06:27 | postponed |
| S3-240266 | 26/02/2024 10:09:33 | noted |
| S3-240267 | 26/02/2024 10:09:45 | noted |
| S3-240269 | 29/02/2024 13:15:57 | approved |
| S3-240270 | 29/02/2024 13:15:57 | approved |
| S3-240271 | 29/02/2024 13:15:58 | approved |
| S3-240272 | 29/02/2024 13:15:59 | approved |
| S3-240273 | 29/02/2024 13:16:00 | approved |
| S3-240274 | 29/02/2024 13:16:01 | approved |
| S3-240275 | 29/02/2024 13:16:02 | approved |
| S3-240276 | 29/02/2024 13:16:02 | approved |
| S3-240278 | 29/02/2024 13:16:03 | approved |
| S3-240279 | 29/02/2024 13:16:04 | approved |
| S3-240280 | 29/02/2024 13:16:05 | approved |
| S3-240281 | 29/02/2024 13:16:06 | approved |
| S3-240282 | 29/02/2024 13:16:07 | approved |
| S3-240286 | 27/02/2024 12:24:00 | revised |
| S3-240287 | 27/02/2024 09:06:22 | approved |
| S3-240288 | 27/02/2024 14:27:40 | revised |
| S3-240289 | 26/02/2024 09:14:17 | noted |
| S3-240290 | 26/02/2024 09:13:00 | noted |
| S3-240291 | 27/02/2024 16:05:03 | revised |
| S3-240295 | 26/02/2024 10:10:17 | noted |
| S3-240296 | 28/02/2024 14:17:07 | revised |
| S3-240297 | 01/03/2024 12:52:02 | available |
| S3-240297 | 01/03/2024 12:52:07 | noted |
| S3-240298 | 28/02/2024 08:13:49 | available |
| S3-240299 | 01/03/2024 11:58:42 | noted |
| S3-240300 | 01/03/2024 11:57:55 | available |
| S3-240301 | 26/02/2024 15:56:55 | revised |
| S3-240302 | 27/02/2024 09:28:55 | available |
| S3-240303 | 27/02/2024 09:21:03 | available |
| S3-240303 | 27/02/2024 09:28:34 | not treated |
| S3-240304 | 27/02/2024 09:21:00 | available |
| S3-240304 | 27/02/2024 09:21:20 | not concluded |
| S3-240304 | 27/02/2024 09:28:37 | not treated |
| S3-240305 | 27/02/2024 09:20:58 | available |
| S3-240306 | 27/02/2024 09:20:55 | available |
| S3-240307 | 27/02/2024 09:23:21 | agreed |
| S3-240308 | 26/02/2024 10:16:47 | available |
| S3-240309 | 29/02/2024 13:15:56 | approved |
| S3-240310 | 29/02/2024 13:16:08 | approved |
| S3-240311 | 01/03/2024 09:19:56 | noted |
| S3-240312 | 26/02/2024 12:07:15 | noted |
| S3-240313 | 27/02/2024 14:05:22 | available |
| S3-240314 | 27/02/2024 15:54:27 | revised |
| S3-240315 | 27/02/2024 17:08:13 | approved |
| S3-240316 | 28/02/2024 16:38:39 | revised |
| S3-240317 | 28/02/2024 17:10:43 | revised |
| S3-240318 | 27/02/2024 10:11:31 | noted |
| S3-240319 | 01/03/2024 11:54:45 | noted |
| S3-240320 | 29/02/2024 14:54:22 | revised |
| S3-240321 | 29/02/2024 15:04:01 | available |
| S3-240322 | 29/02/2024 15:05:45 | available |
| S3-240322 | 29/02/2024 15:11:15 | noted |
| S3-240323 | 01/03/2024 11:58:23 | noted |
| S3-240324 | 28/02/2024 08:33:00 | noted |
| S3-240325 | 28/02/2024 08:01:29 | noted |
| S3-240326 | 28/02/2024 08:02:46 | noted |
| S3-240327 | 28/02/2024 08:06:34 | noted |
| S3-240328 | 28/02/2024 09:54:38 | available |
| S3-240329 | 26/02/2024 12:07:53 | agreed |
| S3-240329 | 26/02/2024 12:12:23 | revised |
| S3-240330 | 29/02/2024 14:49:10 | approved |
| S3-240332 | 27/02/2024 15:55:53 | revised |
| S3-240333 | 29/02/2024 13:30:02 | noted |
| S3-240334 | 27/02/2024 16:01:23 | revised |
| S3-240335 | 27/02/2024 16:11:02 | revised |
| S3-240336 | 27/02/2024 16:14:13 | revised |
| S3-240337 | 29/02/2024 14:16:11 | revised |
| S3-240338 | 29/02/2024 16:03:41 | revised |
| S3-240339 | 01/03/2024 09:39:38 | available |
| S3-240340 | 29/02/2024 10:24:11 | revised |
| S3-240341 | 27/02/2024 06:20:20 | available |
| S3-240342 | 28/02/2024 09:57:27 | available |
| S3-240343 | 28/02/2024 09:57:01 | available |
| S3-240344 | 27/02/2024 07:42:44 | available |
| S3-240345 | 28/02/2024 09:57:39 | available |
| S3-240346 | 28/02/2024 10:03:03 | available |
| S3-240347 | 28/02/2024 09:35:32 | available |
| S3-240348 | 01/03/2024 11:38:47 | available |
| S3-240349 | 28/02/2024 10:33:22 | noted |
| S3-240350 | 27/02/2024 09:32:05 | revised |
| S3-240351 | 01/03/2024 09:45:09 | noted |
| S3-240352 | 26/02/2024 12:15:41 | noted |
| S3-240353 | 29/02/2024 09:44:04 | available |
| S3-240354 | 26/02/2024 07:55:30 | available |
| S3-240355 | 29/02/2024 12:18:08 | available |
| S3-240356 | 01/03/2024 09:40:14 | available |
| S3-240357 | 01/03/2024 12:38:48 | agreed |
| S3-240357 | 01/03/2024 12:42:57 | revised |
| S3-240358 | 27/02/2024 17:08:22 | revised |
| S3-240359 | 27/02/2024 17:10:25 | revised |
| S3-240360 | 27/02/2024 17:08:32 | revised |
| S3-240361 | 27/02/2024 17:09:25 | revised |
| S3-240362 | 27/02/2024 17:09:48 | revised |
| S3-240363 | 27/02/2024 17:10:11 | revised |
| S3-240364 | 27/02/2024 17:10:29 | approved |
| S3-240365 | 27/02/2024 16:47:43 | available |
| S3-240366 | 29/02/2024 10:31:10 | revised |
| S3-240367 | 28/02/2024 17:02:40 | revised |
| S3-240368 | 29/02/2024 14:46:11 | noted |
| S3-240369 | 28/02/2024 17:04:39 | revised |
| S3-240370 | 26/02/2024 12:21:24 | noted |
| S3-240371 | 29/02/2024 09:47:04 | available |
| S3-240372 | 29/02/2024 09:47:07 | available |
| S3-240373 | 01/03/2024 09:24:49 | available |
| S3-240374 | 27/02/2024 09:35:23 | revised |
| S3-240376 | 01/03/2024 09:30:04 | agreed |
| S3-240377 | 26/02/2024 06:33:54 | withdrawn |
| S3-240378 | 26/02/2024 06:34:07 | withdrawn |
| S3-240379 | 28/02/2024 17:10:58 | noted |
| S3-240380 | 28/02/2024 17:14:40 | available |
| S3-240381 | 27/02/2024 09:44:17 | agreed |
| S3-240382 | 29/02/2024 14:24:42 | noted |
| S3-240383 | 27/02/2024 16:19:20 | revised |
| S3-240385 | 27/02/2024 16:21:00 | revised |
| S3-240386 | 28/02/2024 16:00:40 | available |
| S3-240387 | 28/02/2024 15:51:57 | available |
| S3-240388 | 27/02/2024 06:14:58 | revised |
| S3-240389 | 28/02/2024 16:34:54 | available |
| S3-240390 | 28/02/2024 16:34:59 | available |
| S3-240391 | 28/02/2024 14:22:02 | revised |
| S3-240395 | 26/02/2024 12:25:20 | revised |
| S3-240396 | 26/02/2024 12:25:23 | revised |
| S3-240397 | 26/02/2024 12:25:27 | revised |
| S3-240398 | 28/02/2024 06:16:18 | available |
| S3-240399 | 26/02/2024 12:29:33 | revised |
| S3-240400 | 26/02/2024 08:29:43 | available |
| S3-240401 | 26/02/2024 08:21:16 | noted |
| S3-240402 | 26/02/2024 08:21:17 | noted |
| S3-240403 | 28/02/2024 07:27:35 | noted |
| S3-240404 | 28/02/2024 07:27:44 | noted |
| S3-240405 | 28/02/2024 07:27:45 | noted |
| S3-240406 | 28/02/2024 07:27:46 | noted |
| S3-240407 | 28/02/2024 07:25:59 | approved |
| S3-240408 | 28/02/2024 07:26:45 | approved |
| S3-240409 | 28/02/2024 07:26:47 | approved |
| S3-240410 | 28/02/2024 07:26:54 | agreed |
| S3-240410 | 28/02/2024 07:26:55 | approved |
| S3-240411 | 28/02/2024 15:49:52 | approved |
| S3-240412 | 28/02/2024 15:51:38 | revised |
| S3-240413 | 28/02/2024 16:00:29 | revised |
| S3-240414 | 28/02/2024 16:07:16 | revised |
| S3-240415 | 28/02/2024 16:10:56 | available |
| S3-240416 | 28/02/2024 16:19:52 | revised |
| S3-240417 | 01/03/2024 12:43:51 | noted |
| S3-240418 | 01/03/2024 12:43:52 | available |
| S3-240419 | 29/02/2024 07:34:39 | noted |
| S3-240420 | 01/03/2024 12:59:36 | noted |
| S3-240421 | 28/02/2024 14:29:18 | noted |
| S3-240422 | 28/02/2024 14:27:37 | revised |
| S3-240423 | 26/02/2024 12:59:14 | available |
| S3-240424 | 26/02/2024 12:59:16 | available |
| S3-240425 | 26/02/2024 13:19:32 | agreed |
| S3-240426 | 26/02/2024 13:14:52 | available |
| S3-240426 | 26/02/2024 13:15:15 | revised |
| S3-240427 | 26/02/2024 12:53:54 | revised |
| S3-240428 | 27/02/2024 09:30:40 | revised |
| S3-240429 | 01/03/2024 09:46:42 | available |
| S3-240430 | 26/02/2024 09:24:20 | available |
| S3-240431 | 29/02/2024 12:31:12 | available |
| S3-240432 | 29/02/2024 12:31:17 | available |
| S3-240433 | 26/02/2024 12:34:06 | agreed |
| S3-240434 | 01/03/2024 13:14:42 | noted |
| S3-240435 | 27/02/2024 15:22:45 | available |
| S3-240436 | 27/02/2024 15:23:00 | revised |
| S3-240437 | 01/03/2024 13:15:13 | available |
| S3-240438 | 01/03/2024 13:15:16 | available |
| S3-240439 | 28/02/2024 14:33:32 | available |
| S3-240440 | 27/02/2024 15:08:02 | noted |
| S3-240441 | 28/02/2024 06:26:56 | available |
| S3-240442 | 28/02/2024 06:40:26 | available |
| S3-240443 | 27/02/2024 15:07:37 | available |
| S3-240444 | 27/02/2024 15:10:01 | available |
| S3-240445 | 27/02/2024 15:10:04 | available |
| S3-240447 | 29/02/2024 07:54:56 | noted |
| S3-240448 | 27/02/2024 16:48:47 | available |
| S3-240449 | 29/02/2024 10:29:09 | revised |
| S3-240450 | 27/02/2024 16:48:58 | noted |
| S3-240451 | 27/02/2024 16:49:27 | agreed |
| S3-240452 | 27/02/2024 16:51:23 | agreed |
| S3-240453 | 26/02/2024 09:52:15 | available |
| S3-240454 | 27/02/2024 16:48:10 | available |
| S3-240455 | 27/02/2024 16:48:24 | noted |
| S3-240456 | 27/02/2024 08:24:58 | available |
| S3-240457 | 27/02/2024 08:26:38 | available |
| S3-240458 | 26/02/2024 14:07:46 | noted |
| S3-240459 | 26/02/2024 14:06:06 | available |
| S3-240460 | 26/02/2024 07:57:18 | available |
| S3-240461 | 26/02/2024 13:28:16 | revised |
| S3-240462 | 26/02/2024 14:07:37 | agreed |
| S3-240463 | 26/02/2024 14:59:07 | available |
| S3-240466 | 28/02/2024 06:24:07 | revised |
| S3-240467 | 28/02/2024 06:40:36 | available |
| S3-240468 | 29/02/2024 14:31:13 | revised |
| S3-240469 | 29/02/2024 14:35:37 | noted |
| S3-240470 | 01/03/2024 11:59:01 | available |
| S3-240472 | 29/02/2024 09:56:06 | available |
| S3-240473 | 29/02/2024 09:56:08 | available |
| S3-240474 | 29/02/2024 14:35:06 | approved |
| S3-240474 | 29/02/2024 14:35:10 | revised |
| S3-240475 | 01/03/2024 12:12:53 | revised |
| S3-240476 | 28/02/2024 14:50:09 | noted |
| S3-240477 | 29/02/2024 12:35:12 | available |
| S3-240477 | 29/02/2024 12:35:24 | merged |
| S3-240478 | 28/02/2024 06:40:43 | available |
| S3-240479 | 01/03/2024 09:30:43 | noted |
| S3-240480 | 26/02/2024 08:29:10 | revised |
| S3-240481 | 29/02/2024 12:22:56 | available |
| S3-240482 | 27/02/2024 17:03:08 | available |
| S3-240482 | 27/02/2024 17:05:34 | not pursued |
| S3-240482 | 29/02/2024 12:23:34 | available |
| S3-240483 | 27/02/2024 17:03:17 | available |
| S3-240483 | 27/02/2024 17:05:36 | not pursued |
| S3-240483 | 29/02/2024 12:23:40 | available |
| S3-240484 | 26/02/2024 10:06:05 | revised |
| S3-240485 | 26/02/2024 10:07:13 | noted |
| S3-240486 | 26/02/2024 09:30:28 | revised |
| S3-240487 | 28/02/2024 09:59:03 | available |
| S3-240488 | 28/02/2024 09:59:08 | available |
| S3-240489 | 29/02/2024 07:54:48 | noted |
| S3-240490 | 01/03/2024 13:00:47 | noted |
| S3-240491 | 28/02/2024 14:17:21 | noted |
| S3-240492 | 28/02/2024 08:13:37 | revised |
| S3-240492 | 28/02/2024 08:33:53 | noted |
| S3-240492 | 29/02/2024 08:24:00 | revised |
| S3-240493 | 01/03/2024 11:59:03 | available |
| S3-240494 | 27/02/2024 08:24:02 | available |
| S3-240495 | 27/02/2024 12:24:10 | available |
| S3-240496 | 01/03/2024 10:03:54 | noted |
| S3-240497 | 28/02/2024 09:57:07 | available |
| S3-240498 | 27/02/2024 16:41:42 | revised |
| S3-240498 | 29/02/2024 12:42:09 | not pursued |
| S3-240499 | 27/02/2024 16:46:13 | revised |
| S3-240500 | 29/02/2024 12:36:57 | available |
| S3-240501 | 27/02/2024 16:45:32 | revised |
| S3-240502 | 29/02/2024 12:36:41 | available |
| S3-240503 | 26/02/2024 07:43:00 | revised |
| S3-240504 | 28/02/2024 16:55:46 | available |
| S3-240505 | 27/02/2024 06:06:50 | noted |
| S3-240506 | 27/02/2024 06:10:55 | revised |
| S3-240507 | 28/02/2024 14:33:36 | available |
| S3-240508 | 28/02/2024 14:33:18 | noted |
| S3-240509 | 27/02/2024 06:44:23 | available |
| S3-240510 | 27/02/2024 06:44:30 | available |
| S3-240511 | 27/02/2024 06:11:46 | revised |
| S3-240512 | 01/03/2024 09:20:13 | available |
| S3-240513 | 26/02/2024 10:16:31 | revised |
| S3-240514 | 27/02/2024 10:15:58 | agreed |
| S3-240515 | 27/02/2024 17:07:56 | available |
| S3-240516 | 27/02/2024 17:10:03 | available |
| S3-240517 | 27/02/2024 17:10:36 | revised |
| S3-240518 | 27/02/2024 17:10:39 | noted |
| S3-240519 | 27/02/2024 17:10:16 | available |
| S3-240520 | 27/02/2024 17:09:35 | available |
| S3-240521 | 27/02/2024 10:19:27 | noted |
| S3-240522 | 27/02/2024 10:20:33 | noted |
| S3-240523 | 27/02/2024 10:20:34 | noted |
| S3-240524 | 27/02/2024 10:24:38 | noted |
| S3-240525 | 29/02/2024 13:12:41 | noted |
| S3-240526 | 01/03/2024 13:18:19 | noted |
| S3-240527 | 29/02/2024 13:12:42 | noted |
| S3-240528 | 29/02/2024 13:12:44 | noted |
| S3-240529 | 28/02/2024 12:53:30 | revised |
| S3-240530 | 29/02/2024 09:55:13 | revised |
| S3-240531 | 27/02/2024 10:29:17 | revised |
| S3-240532 | 29/02/2024 09:56:37 | noted |
| S3-240533 | 26/02/2024 07:55:21 | revised |
| S3-240534 | 26/02/2024 12:36:39 | available |
| S3-240535 | 26/02/2024 12:37:55 | agreed |
| S3-240536 | 27/02/2024 17:07:06 | approved |
| S3-240537 | 29/02/2024 10:12:51 | agreed |
| S3-240538 | 29/02/2024 10:09:26 | available |
| S3-240539 | 27/02/2024 09:55:13 | agreed |
| S3-240540 | 27/02/2024 09:56:12 | agreed |
| S3-240541 | 27/02/2024 09:56:43 | agreed |
| S3-240542 | 27/02/2024 10:01:19 | agreed |
| S3-240543 | 29/02/2024 14:57:25 | revised |
| S3-240544 | 27/02/2024 14:06:49 | noted |
| S3-240545 | 27/02/2024 14:16:02 | revised |
| S3-240546 | 27/02/2024 14:16:05 | revised |
| S3-240547 | 27/02/2024 16:59:52 | available |
| S3-240548 | 27/02/2024 17:06:58 | approved |
| S3-240549 | 26/02/2024 07:47:12 | revised |
| S3-240550 | 01/03/2024 10:13:15 | revised |
| S3-240551 | 27/02/2024 14:41:17 | revised |
| S3-240552 | 28/02/2024 14:57:02 | revised |
| S3-240553 | 28/02/2024 09:25:00 | available |
| S3-240554 | 28/02/2024 09:35:35 | available |
| S3-240555 | 27/02/2024 14:36:57 | revised |
| S3-240556 | 27/02/2024 14:37:23 | revised |
| S3-240557 | 26/02/2024 08:09:58 | available |
| S3-240558 | 26/02/2024 14:05:38 | revised |
| S3-240559 | 28/02/2024 09:52:48 | noted |
| S3-240560 | 28/02/2024 09:28:09 | noted |
| S3-240562 | 29/02/2024 12:26:29 | revised |
| S3-240563 | 01/03/2024 09:31:45 | agreed |
| S3-240565 | 28/02/2024 14:33:43 | available |
| S3-240567 | 26/02/2024 08:09:46 | revised |
| S3-240568 | 26/02/2024 09:09:41 | available |
| S3-240569 | 27/02/2024 17:07:36 | available |
| S3-240570 | 27/02/2024 17:08:01 | noted |
| S3-240571 | 28/02/2024 08:13:56 | available |
| S3-240572 | 01/03/2024 11:59:07 | available |
| S3-240573 | 28/02/2024 08:06:35 | noted |
| S3-240574 | 01/03/2024 11:59:10 | available |
| S3-240575 | 26/02/2024 14:37:54 | revised |
| S3-240576 | 28/02/2024 15:03:43 | revised |
| S3-240577 | 01/03/2024 10:11:35 | available |
| S3-240578 | 27/02/2024 16:43:36 | available |
| S3-240578 | 29/02/2024 12:35:37 | merged |
| S3-240578 | 29/02/2024 12:36:07 | not pursued |
| S3-240578 | 29/02/2024 12:38:30 | available |
| S3-240578 | 29/02/2024 12:41:25 | not pursued |
| S3-240579 | 27/02/2024 16:40:31 | agreed |
| S3-240580 | 29/02/2024 09:57:45 | available |
| S3-240581 | 28/02/2024 13:17:26 | revised |
| S3-240581 | 28/02/2024 13:20:38 | noted |
| S3-240582 | 28/02/2024 13:17:32 | revised |
| S3-240583 | 29/02/2024 09:58:27 | revised |
| S3-240584 | 27/02/2024 16:58:48 | noted |
| S3-240585 | 27/02/2024 17:00:37 | available |
| S3-240586 | 27/02/2024 17:00:51 | available |
| S3-240587 | 27/02/2024 16:28:22 | revised |
| S3-240588 | 27/02/2024 16:28:29 | revised |
| S3-240589 | 27/02/2024 16:28:32 | revised |
| S3-240590 | 27/02/2024 16:28:35 | revised |
| S3-240591 | 29/02/2024 08:07:06 | noted |
| S3-240592 | 01/03/2024 12:46:24 | noted |
| S3-240594 | 29/02/2024 13:16:11 | approved |
| S3-240595 | 29/02/2024 13:16:13 | approved |
| S3-240597 | 29/02/2024 13:16:14 | approved |
| S3-240598 | 01/03/2024 11:40:31 | noted |
| S3-240600 | 01/03/2024 11:40:37 | noted |
| S3-240601 | 29/02/2024 08:07:17 | noted |
| S3-240602 | 01/03/2024 10:11:04 | agreed |
| S3-240603 | 28/02/2024 06:41:43 | available |
| S3-240604 | 27/02/2024 16:41:19 | revised |
| S3-240605 | 28/02/2024 06:27:00 | available |
| S3-240606 | 01/03/2024 11:39:14 | noted |
| S3-240607 | 29/02/2024 10:22:32 | available |
| S3-240608 | 26/02/2024 12:07:21 | noted |
| S3-240609 | 29/02/2024 10:22:35 | available |
| S3-240610 | 27/02/2024 06:12:18 | available |
| S3-240611 | 27/02/2024 06:12:38 | available |
| S3-240612 | 29/02/2024 07:34:48 | noted |
| S3-240613 | 01/03/2024 12:59:54 | noted |
| S3-240614 | 29/02/2024 08:20:49 | available |
| S3-240615 | 28/02/2024 09:40:58 | revised |
| S3-240616 | 28/02/2024 09:48:02 | noted |
| S3-240617 | 01/03/2024 13:15:38 | available |
| S3-240619 | 01/03/2024 09:21:07 | available |
| S3-240620 | 27/02/2024 13:03:48 | revised |
| S3-240621 | 27/02/2024 13:05:06 | revised |
| S3-240622 | 26/02/2024 14:40:45 | revised |
| S3-240623 | 28/02/2024 06:40:49 | available |
| S3-240624 | 28/02/2024 14:33:03 | revised |
| S3-240625 | 26/02/2024 13:16:48 | agreed |
| S3-240626 | 28/02/2024 06:08:52 | approved |
| S3-240627 | 27/02/2024 16:57:44 | revised |
| S3-240628 | 29/02/2024 14:54:50 | noted |
| S3-240629 | 29/02/2024 15:04:08 | available |
| S3-240630 | 01/03/2024 12:49:56 | noted |
| S3-240631 | 26/02/2024 09:08:37 | revised |
| S3-240632 | 27/02/2024 16:58:53 | noted |
| S3-240633 | 26/02/2024 07:38:47 | revised |
| S3-240634 | 26/02/2024 09:30:55 | available |
| S3-240635 | 26/02/2024 12:53:59 | available |
| S3-240636 | 26/02/2024 13:15:21 | available |
| S3-240637 | 27/02/2024 17:03:25 | available |
| S3-240637 | 27/02/2024 17:05:40 | not pursued |
| S3-240637 | 29/02/2024 12:30:49 | available |
| S3-240638 | 29/02/2024 12:22:51 | revised |
| S3-240639 | 27/02/2024 12:51:48 | available |
| S3-240640 | 28/02/2024 06:15:57 | revised |
| S3-240641 | 29/02/2024 08:15:03 | agreed |
| S3-240642 | 27/02/2024 17:07:45 | available |
| S3-240643 | 28/02/2024 06:27:04 | available |
| S3-240644 | 27/02/2024 16:57:06 | available |
| S3-240645 | 28/02/2024 06:41:23 | available |
| S3-240646 | 28/02/2024 06:40:17 | revised |
| S3-240648 | 27/02/2024 16:56:13 | available |
| S3-240650 | 29/02/2024 13:21:39 | available |
| S3-240651 | 26/02/2024 07:38:53 | available |
| S3-240652 | 28/02/2024 15:09:50 | revised |
| S3-240653 | 27/02/2024 16:05:16 | revised |
| S3-240654 | 27/02/2024 16:05:23 | revised |
| S3-240655 | 27/02/2024 16:58:26 | revised |
| S3-240656 | 27/02/2024 16:58:32 | revised |
| S3-240657 | 28/02/2024 06:27:09 | available |
| S3-240658 | 26/02/2024 08:06:30 | noted |
| S3-240659 | 26/02/2024 08:06:43 | noted |
| S3-240660 | 27/02/2024 16:56:53 | agreed |
| S3-240661 | 27/02/2024 09:09:40 | revised |
| S3-240662 | 27/02/2024 16:56:32 | available |
| S3-240663 | 29/02/2024 10:00:15 | noted |
| S3-240664 | 26/02/2024 14:51:40 | agreed |
| S3-240664 | 26/02/2024 14:52:22 | revised |
| S3-240665 | 26/02/2024 14:51:41 | agreed |
| S3-240665 | 26/02/2024 14:52:26 | revised |
| S3-240666 | 26/02/2024 14:54:27 | agreed |
| S3-240667 | 26/02/2024 14:54:28 | agreed |
| S3-240668 | 26/02/2024 14:54:29 | agreed |
| S3-240669 | 26/02/2024 15:02:30 | noted |
| S3-240670 | 29/02/2024 10:00:50 | available |
| S3-240671 | 29/02/2024 10:00:55 | available |
| S3-240672 | 27/02/2024 13:07:48 | available |
| S3-240672 | 27/02/2024 13:09:18 | not pursued |
| S3-240672 | 29/02/2024 13:22:57 | agreed |
| S3-240673 | 29/02/2024 13:23:18 | agreed |
| S3-240674 | 27/02/2024 13:15:47 | agreed |
| S3-240675 | 27/02/2024 12:43:57 | available |
| S3-240675 | 27/02/2024 12:45:08 | revised |
| S3-240676 | 27/02/2024 12:51:42 | revised |
| S3-240677 | 27/02/2024 13:00:13 | available |
| S3-240678 | 27/02/2024 13:17:09 | available |
| S3-240678 | 28/02/2024 06:18:37 | not pursued |
| S3-240678 | 29/02/2024 13:24:20 | available |
| S3-240679 | 28/02/2024 06:18:46 | available |
| S3-240680 | 01/03/2024 13:03:04 | noted |
| S3-240681 | 27/02/2024 15:18:05 | revised |
| S3-240681 | 27/02/2024 15:23:09 | available |
| S3-240681 | 28/02/2024 06:58:00 | merged |
| S3-240681 | 28/02/2024 06:58:26 | revised |
| S3-240682 | 01/03/2024 13:16:56 | available |
| S3-240683 | 01/03/2024 13:16:58 | available |
| S3-240683 | 01/03/2024 13:17:06 | not treated |
| S3-240684 | 01/03/2024 13:17:00 | available |
| S3-240685 | 01/03/2024 13:14:16 | noted |
| S3-240686 | 27/02/2024 15:06:27 | revised |
| S3-240687 | 27/02/2024 15:08:26 | revised |
| S3-240688 | 27/02/2024 16:05:29 | revised |
| S3-240689 | 29/02/2024 12:38:32 | available |
| S3-240689 | 29/02/2024 12:45:00 | not pursued |
| S3-240689 | 01/03/2024 10:10:46 | available |
| S3-240690 | 28/02/2024 15:12:14 | revised |
| S3-240691 | 01/03/2024 12:50:17 | noted |
| S3-240692 | 26/02/2024 08:06:48 | postponed |
| S3-240693 | 26/02/2024 07:47:17 | available |
| S3-240694 | 01/03/2024 09:20:36 | available |
| S3-240695 | 26/02/2024 12:59:21 | available |
| S3-240696 | 28/02/2024 16:20:00 | available |
| S3-240697 | 29/02/2024 14:33:33 | available |
| S3-240698 | 29/02/2024 15:05:36 | revised |
| S3-240698 | 29/02/2024 15:11:09 | noted |
| S3-240698 | 01/03/2024 06:56:23 | revised |
| S3-240699 | 27/02/2024 17:07:18 | revised |
| S3-240700 | 28/02/2024 06:40:59 | available |
| S3-240701 | 01/03/2024 11:38:17 | available |
| S3-240702 | 01/03/2024 11:38:31 | available |
| S3-240703 | 28/02/2024 15:16:23 | revised |
| S3-240704 | 28/02/2024 15:23:48 | revised |
| S3-240705 | 01/03/2024 12:57:51 | noted |
| S3-240705 | 01/03/2024 12:58:01 | revised |
| S3-240706 | 26/02/2024 09:51:55 | revised |
| S3-240707 | 26/02/2024 06:58:49 | withdrawn |
| S3-240708 | 27/02/2024 16:47:36 | revised |
| S3-240709 | 01/03/2024 12:58:55 | noted |
| S3-240710 | 28/02/2024 14:44:46 | revised |
| S3-240711 | 29/02/2024 07:12:29 | noted |
| S3-240712 | 01/03/2024 08:09:33 | noted |
| S3-240714 | 26/02/2024 08:10:06 | available |
| S3-240715 | 28/02/2024 09:13:16 | revised |
| S3-240716 | 28/02/2024 09:24:15 | revised |
| S3-240717 | 26/02/2024 09:22:00 | noted |
| S3-240718 | 28/02/2024 16:10:44 | revised |
| S3-240719 | 28/02/2024 16:20:10 | available |
| S3-240720 | 29/02/2024 14:35:28 | noted |
| S3-240721 | 28/02/2024 16:11:06 | available |
| S3-240722 | 28/02/2024 16:20:17 | available |
| S3-240723 | 01/03/2024 09:27:51 | available |
| S3-240724 | 26/02/2024 07:43:08 | available |
| S3-240725 | 26/02/2024 15:20:09 | revised |
| S3-240726 | 28/02/2024 09:54:54 | available |
| S3-240727 | 27/02/2024 12:08:45 | revised |
| S3-240728 | 27/02/2024 10:05:46 | agreed |
| S3-240730 | 26/02/2024 12:15:49 | noted |
| S3-240731 | 29/02/2024 09:44:47 | available |
| S3-240732 | 29/02/2024 10:23:45 | revised |
| S3-240733 | 01/03/2024 09:37:49 | agreed |
| S3-240734 | 01/03/2024 10:05:50 | revised |
| S3-240735 | 26/02/2024 09:31:03 | available |
| S3-240736 | 27/02/2024 12:12:36 | revised |
| S3-240737 | 27/02/2024 14:38:40 | revised |
| S3-240738 | 01/03/2024 10:04:14 | noted |
| S3-240739 | 01/03/2024 10:04:08 | noted |
| S3-240740 | 29/02/2024 14:24:55 | noted |
| S3-240741 | 28/02/2024 09:56:50 | available |
| S3-240742 | 28/02/2024 09:57:18 | available |
| S3-240743 | 01/03/2024 09:20:52 | available |
| S3-240744 | 01/03/2024 09:20:00 | noted |
| S3-240745 | 01/03/2024 09:23:00 | noted |
| S3-240746 | 26/02/2024 12:04:27 | revised |
| S3-240747 | 01/03/2024 09:23:01 | noted |
| S3-240748 | 01/03/2024 09:23:02 | noted |
| S3-240749 | 01/03/2024 09:23:06 | noted |
| S3-240750 | 28/02/2024 10:03:53 | available |
| S3-240751 | 28/02/2024 09:59:35 | revised |
| S3-240752 | 28/02/2024 09:58:22 | revised |
| S3-240753 | 27/02/2024 17:14:29 | revised |
| S3-240754 | 29/02/2024 09:43:36 | revised |
| S3-240755 | 27/02/2024 08:24:37 | available |
| S3-240756 | 27/02/2024 12:17:31 | noted |
| S3-240757 | 27/02/2024 16:48:38 | noted |
| S3-240758 | 28/02/2024 14:20:31 | revised |
| S3-240759 | 27/02/2024 14:57:38 | revised |
| S3-240760 | 26/02/2024 10:22:48 | revised |
| S3-240761 | 28/02/2024 09:11:38 | approved |
| S3-240762 | 28/02/2024 09:17:48 | revised |
| S3-240763 | 28/02/2024 09:32:51 | revised |
| S3-240764 | 29/02/2024 08:20:42 | revised |
| S3-240765 | 01/03/2024 12:59:21 | noted |
| S3-240766 | 29/02/2024 07:24:42 | noted |
| S3-240767 | 29/02/2024 12:30:05 | revised |
| S3-240768 | 29/02/2024 12:30:18 | revised |
| S3-240769 | 29/02/2024 08:24:46 | available |
| S3-240770 | 26/02/2024 09:24:13 | revised |
| S3-240771 | 27/02/2024 17:09:54 | available |
| S3-240772 | 27/02/2024 17:09:44 | available |
| S3-240773 | 27/02/2024 17:09:21 | available |
| S3-240774 | 27/02/2024 12:19:48 | available |
| S3-240775 | 01/03/2024 09:32:56 | revised |
| S3-240776 | 26/02/2024 15:26:32 | available |
| S3-240777 | 01/03/2024 11:39:39 | noted |
| S3-240778 | 28/02/2024 09:58:57 | available |
| S3-240779 | 27/02/2024 06:15:39 | available |
| S3-240780 | 28/02/2024 06:26:51 | revised |
| S3-240781 | 28/02/2024 06:41:08 | available |
| S3-240782 | 28/02/2024 09:24:53 | available |
| S3-240783 | 26/02/2024 07:55:46 | available |
| S3-240784 | 01/03/2024 11:58:00 | available |
| S3-240785 | 29/02/2024 15:05:41 | available |
| S3-240785 | 29/02/2024 15:11:12 | noted |
| S3-240786 | 27/02/2024 17:07:52 | available |
| S3-240787 | 29/02/2024 09:17:38 | noted |
| S3-240788 | 28/02/2024 16:20:21 | available |
| S3-240789 | 01/03/2024 09:41:11 | available |
| S3-240790 | 01/03/2024 09:41:14 | available |
| S3-240791 | 26/02/2024 13:00:46 | revised |
| S3-240792 | 26/02/2024 12:58:53 | revised |
| S3-240793 | 26/02/2024 13:21:26 | available |
| S3-240794 | 26/02/2024 13:22:27 | agreed |
| S3-240795 | 01/03/2024 09:17:21 | available |
| S3-240796 | 27/02/2024 07:15:27 | noted |
| S3-240797 | 27/02/2024 07:23:07 | available |
| S3-240798 | 28/02/2024 09:57:22 | available |
| S3-240799 | 28/02/2024 09:56:55 | available |
| S3-240800 | 26/02/2024 09:31:10 | available |
| S3-240801 | 28/02/2024 09:55:00 | available |
| S3-240802 | 27/02/2024 08:17:39 | revised |
| S3-240803 | 01/03/2024 10:07:12 | revised |
| S3-240804 | 27/02/2024 08:24:29 | revised |
| S3-240805 | 28/02/2024 15:04:38 | noted |
| S3-240807 | 28/02/2024 06:41:16 | available |
| S3-240808 | 28/02/2024 06:41:30 | available |
| S3-240809 | 29/02/2024 15:20:58 | revised |
| S3-240809 | 29/02/2024 15:21:34 | noted |
| S3-240810 | 01/03/2024 11:38:43 | available |
| S3-240811 | 28/02/2024 13:00:12 | revised |
| S3-240812 | 28/02/2024 14:50:12 | noted |
| S3-240813 | 01/03/2024 13:00:32 | noted |
| S3-240814 | 29/02/2024 14:14:49 | revised |
| S3-240815 | 27/02/2024 14:39:21 | revised |
| S3-240816 | 27/02/2024 12:20:39 | approved |
| S3-240817 | 28/02/2024 07:18:39 | approved |
| S3-240818 | 28/02/2024 07:18:40 | approved |
| S3-240819 | 28/02/2024 07:18:41 | approved |
| S3-240820 | 28/02/2024 07:18:43 | approved |
| S3-240821 | 28/02/2024 10:05:10 | available |
| S3-240821 | 28/02/2024 10:08:44 | not pursued |
| S3-240821 | 01/03/2024 10:06:08 | available |
| S3-240822 | 29/02/2024 10:34:55 | revised |
| S3-240823 | 28/02/2024 16:47:30 | noted |
| S3-240823 | 29/02/2024 10:35:04 | revised |
| S3-240824 | 28/02/2024 16:55:41 | revised |
| S3-240825 | 27/02/2024 10:07:21 | agreed |
| S3-240826 | 26/02/2024 07:18:29 | approved |
| S3-240827 | 01/03/2024 13:21:36 | noted |
| S3-240828 | 29/02/2024 09:12:52 | approved |
| S3-240829 | 29/02/2024 09:14:27 | approved |
| S3-240830 | 29/02/2024 09:16:04 | approved |
| S3-240831 | 01/03/2024 11:18:00 | noted |
| S3-240832 | 29/02/2024 09:20:33 | approved |
| S3-240833 | 29/02/2024 09:23:28 | approved |
| S3-240834 | 28/02/2024 07:33:50 | approved |
| S3-240835 | 01/03/2024 11:20:04 | approved |
| S3-240836 | 01/03/2024 10:02:12 | approved |
| S3-240837 | 01/03/2024 11:21:05 | approved |
| S3-240837 | 04/03/2024 14:12:57 | revised |
| S3-240838 | 01/03/2024 11:24:10 | approved |
| S3-240839 | 01/03/2024 11:19:25 | approved |
| S3-240840 | 01/03/2024 11:26:55 | approved |
| S3-240841 | 29/02/2024 09:38:32 | approved |
| S3-240841 | 29/02/2024 09:39:14 | revised |
| S3-240841 | 29/02/2024 09:39:18 | approved |
| S3-240842 | 26/02/2024 12:12:38 | revised |
| S3-240842 | 29/02/2024 09:42:27 | agreed |
| S3-240843 | 26/02/2024 12:12:47 | revised |
| S3-240843 | 29/02/2024 09:42:16 | agreed |
| S3-240844 | 29/02/2024 09:42:16 | agreed |
| S3-240845 | 26/02/2024 12:25:57 | agreed |
| S3-240846 | 26/02/2024 12:25:55 | agreed |
| S3-240847 | 26/02/2024 12:25:54 | agreed |
| S3-240848 | 01/03/2024 09:25:35 | agreed |
| S3-240849 | 01/03/2024 09:15:38 | agreed |
| S3-240850 | 01/03/2024 09:17:07 | agreed |
| S3-240851 | 26/02/2024 13:03:05 | agreed |
| S3-240852 | 01/03/2024 09:17:56 | agreed |
| S3-240853 | 26/02/2024 13:28:23 | agreed |
| S3-240854 | 01/03/2024 11:18:20 | reserved |
| S3-240855 | 26/02/2024 14:38:01 | agreed |
| S3-240855 | 01/03/2024 12:25:45 | available |
| S3-240856 | 26/02/2024 14:41:34 | agreed |
| S3-240857 | 29/02/2024 09:42:17 | agreed |
| S3-240858 | 26/02/2024 14:52:31 | agreed |
| S3-240859 | 26/02/2024 14:52:32 | agreed |
| S3-240860 | 26/02/2024 15:20:47 | agreed |
| S3-240861 | 29/02/2024 09:12:28 | agreed |
| S3-240862 | 01/03/2024 09:36:50 | agreed |
| S3-240863 | 01/03/2024 09:36:51 | agreed |
| S3-240864 | 29/02/2024 10:21:09 | agreed |
| S3-240865 | 27/02/2024 08:17:52 | agreed |
| S3-240866 | 01/03/2024 10:08:49 | agreed |
| S3-240867 | 29/02/2024 10:17:43 | reserved |
| S3-240868 | 01/03/2024 08:22:11 | noted |
| S3-240869 | 27/02/2024 09:34:13 | agreed |
| S3-240870 | 01/03/2024 09:29:41 | noted |
| S3-240871 | 27/02/2024 10:29:26 | agreed |
| S3-240872 | 27/02/2024 12:08:55 | approved |
| S3-240873 | 27/02/2024 12:12:37 | agreed |
| S3-240874 | 01/03/2024 13:17:38 | reserved |
| S3-240875 | 29/02/2024 13:15:14 | agreed |
| S3-240876 | 01/03/2024 13:20:17 | reserved |
| S3-240877 | 27/02/2024 12:46:19 | reserved |
| S3-240877 | 28/02/2024 06:18:22 | not pursued |
| S3-240877 | 29/02/2024 13:19:24 | available |
| S3-240878 | 29/02/2024 13:20:25 | reserved |
| S3-240878 | 04/03/2024 12:00:58 | revised |
| S3-240879 | 27/02/2024 13:04:38 | agreed |
| S3-240880 | 27/02/2024 13:05:12 | agreed |
| S3-240881 | 01/03/2024 13:20:23 | reserved |
| S3-240882 | 01/03/2024 10:16:47 | approved |
| S3-240883 | 01/03/2024 10:17:20 | approved |
| S3-240884 | 01/03/2024 10:27:53 | reserved |
| S3-240885 | 01/03/2024 10:27:55 | reserved |
| S3-240886 | 29/02/2024 13:09:50 | approved |
| S3-240887 | 29/02/2024 12:59:59 | approved |
| S3-240888 | 29/02/2024 13:03:15 | approved |
| S3-240889 | 29/02/2024 13:05:09 | agreed |
| S3-240890 | 01/03/2024 10:17:46 | agreed |
| S3-240891 | 29/02/2024 13:01:59 | agreed |
| S3-240892 | 01/03/2024 13:11:19 | approved |
| S3-240893 | 01/03/2024 13:12:22 | agreed |
| S3-240894 | 01/03/2024 13:12:44 | approved |
| S3-240895 | 01/03/2024 13:16:41 | agreed |
| S3-240896 | 29/02/2024 13:27:02 | approved |
| S3-240897 | 29/02/2024 14:05:51 | approved |
| S3-240898 | 29/02/2024 14:08:22 | approved |
| S3-240899 | 29/02/2024 12:10:05 | agreed |
| S3-240900 | 29/02/2024 12:12:27 | agreed |
| S3-240901 | 29/02/2024 12:12:46 | agreed |
| S3-240902 | 29/02/2024 14:07:28 | approved |
| S3-240903 | 29/02/2024 14:09:08 | approved |
| S3-240904 | 29/02/2024 14:09:37 | approved |
| S3-240905 | 01/03/2024 11:46:51 | approved |
| S3-240906 | 01/03/2024 12:36:41 | approved |
| S3-240907 | 29/02/2024 12:19:48 | agreed |
| S3-240908 | 29/02/2024 12:19:50 | agreed |
| S3-240909 | 29/02/2024 12:20:27 | agreed |
| S3-240910 | 01/03/2024 10:09:49 | reserved |
| S3-240911 | 29/02/2024 12:35:29 | withdrawn |
| S3-240912 | 29/02/2024 12:54:42 | approved |
| S3-240913 | 29/02/2024 12:38:09 | reserved |
| S3-240914 | 29/02/2024 12:55:23 | agreed |
| S3-240915 | 29/02/2024 15:49:57 | agreed |
| S3-240916 | 01/03/2024 09:41:53 | reserved |
| S3-240917 | 29/02/2024 12:13:12 | reserved |
| S3-240918 | 29/02/2024 12:13:16 | reserved |
| S3-240919 | 01/03/2024 12:00:27 | approved |
| S3-240920 | 01/03/2024 12:07:06 | approved |
| S3-240921 | 01/03/2024 12:07:40 | approved |
| S3-240922 | 01/03/2024 12:08:09 | approved |
| S3-240923 | 01/03/2024 12:08:33 | approved |
| S3-240924 | 01/03/2024 12:09:29 | approved |
| S3-240925 | 01/03/2024 12:11:02 | approved |
| S3-240926 | 01/03/2024 12:11:31 | approved |
| S3-240927 | 01/03/2024 12:11:33 | reserved |
| S3-240928 | 01/03/2024 12:00:39 | reserved |
| S3-240928 | 01/03/2024 12:00:46 | approved |
| S3-240929 | 01/03/2024 10:05:04 | agreed |
| S3-240930 | 01/03/2024 11:44:34 | reserved |
| S3-240931 | 29/02/2024 15:14:22 | approved |
| S3-240932 | 28/02/2024 06:24:41 | approved |
| S3-240933 | 01/03/2024 11:37:03 | approved |
| S3-240934 | 01/03/2024 11:37:50 | approved |
| S3-240935 | 29/02/2024 10:12:38 | approved |
| S3-240936 | 01/03/2024 12:21:17 | approved |
| S3-240937 | 01/03/2024 12:21:17 | approved |
| S3-240938 | 01/03/2024 12:21:18 | approved |
| S3-240939 | 01/03/2024 12:21:19 | approved |
| S3-240940 | 29/02/2024 15:37:54 | approved |
| S3-240941 | 01/03/2024 11:51:00 | reserved |
| S3-240942 | 28/02/2024 09:13:17 | approved |
| S3-240943 | 28/02/2024 09:19:57 | approved |
| S3-240944 | 29/02/2024 14:26:15 | approved |
| S3-240945 | 01/03/2024 11:50:11 | approved |
| S3-240946 | 01/03/2024 11:50:45 | noted |
| S3-240947 | 29/02/2024 15:36:24 | approved |
| S3-240948 | 01/03/2024 09:50:07 | agreed |
| S3-240949 | 01/03/2024 10:01:26 | reserved |
| S3-240950 | 01/03/2024 11:45:24 | approved |
| S3-240951 | 01/03/2024 12:45:06 | agreed |
| S3-240952 | 01/03/2024 12:50:42 | agreed |
| S3-240953 | 28/02/2024 13:20:34 | withdrawn |
| S3-240954 | 01/03/2024 12:45:50 | agreed |
| S3-240955 | 01/03/2024 07:34:24 | agreed |
| S3-240956 | 01/03/2024 13:08:14 | agreed |
| S3-240957 | 01/03/2024 07:35:19 | agreed |
| S3-240958 | 01/03/2024 13:09:05 | agreed |
| S3-240959 | 01/03/2024 13:09:04 | agreed |
| S3-240960 | 01/03/2024 13:09:02 | agreed |
| S3-240961 | 01/03/2024 13:09:01 | agreed |
| S3-240962 | 01/03/2024 13:08:59 | agreed |
| S3-240963 | 01/03/2024 13:08:58 | agreed |
| S3-240964 | 01/03/2024 13:08:56 | agreed |
| S3-240965 | 01/03/2024 13:08:55 | agreed |
| S3-240966 | 01/03/2024 13:08:54 | agreed |
| S3-240967 | 01/03/2024 08:06:59 | agreed |
| S3-240968 | 01/03/2024 08:12:56 | agreed |
| S3-240969 | 01/03/2024 07:36:57 | agreed |
| S3-240970 | 01/03/2024 08:11:05 | approved |
| S3-240970 | 01/03/2024 08:11:07 | agreed |
| S3-240971 | 01/03/2024 07:52:59 | agreed |
| S3-240972 | 01/03/2024 07:54:33 | agreed |
| S3-240973 | 01/03/2024 07:56:05 | agreed |
| S3-240974 | 01/03/2024 12:53:34 | agreed |
| S3-240975 | 01/03/2024 12:54:09 | noted |
| S3-240976 | 28/02/2024 15:51:48 | approved |
| S3-240977 | 01/03/2024 11:51:26 | reserved |
| S3-240978 | 29/02/2024 14:29:55 | approved |
| S3-240979 | 29/02/2024 14:32:01 | approved |
| S3-240980 | 29/02/2024 14:32:51 | approved |
| S3-240981 | 29/02/2024 14:34:15 | approved |
| S3-240982 | 01/03/2024 11:54:17 | reserved |
| S3-240983 | 29/02/2024 14:37:08 | approved |
| S3-240984 | 01/03/2024 11:53:45 | approved |
| S3-240985 | 28/02/2024 17:05:04 | approved |
| S3-240986 | 28/02/2024 17:04:58 | approved |
| S3-240987 | 29/02/2024 14:37:58 | approved |
| S3-240988 | 01/03/2024 13:07:21 | agreed |
| S3-240989 | 01/03/2024 11:58:52 | noted |
| S3-240990 | 01/03/2024 09:22:44 | agreed |
| S3-240991 | 01/03/2024 09:28:27 | reserved |
| S3-240992 | 01/03/2024 09:26:03 | agreed |
| S3-240993 | 01/03/2024 09:27:20 | reserved |
| S3-240994 | 01/03/2024 09:38:32 | agreed |
| S3-240995 | 29/02/2024 10:29:11 | agreed |
| S3-240996 | 01/03/2024 11:25:18 | approved |
| S3-240996 | 05/03/2024 07:59:31 | revised |
| S3-240997 | 29/02/2024 14:43:27 | approved |
| S3-240998 | 01/03/2024 11:53:03 | approved |
| S3-240999 | 01/03/2024 11:34:10 | noted |
| S3-241000 | 01/03/2024 09:44:50 | noted |
| S3-241001 | 01/03/2024 09:31:26 | agreed |
| S3-241002 | 01/03/2024 09:48:27 | agreed |
| S3-241003 | 01/03/2024 09:48:29 | agreed |
| S3-241004 | 29/02/2024 14:14:52 | approved |
| S3-241005 | 29/02/2024 14:16:14 | approved |
| S3-241006 | 29/02/2024 14:31:14 | approved |
| S3-241007 | 29/02/2024 14:35:13 | approved |
| S3-241008 | 01/03/2024 11:55:18 | approved |
| S3-241009 | 01/03/2024 11:57:05 | approved |
| S3-241010 | 01/03/2024 12:02:24 | reserved |
| S3-241011 | 01/03/2024 12:25:12 | approved |
| S3-241012 | 01/03/2024 12:25:12 | approved |
| S3-241013 | 01/03/2024 12:25:13 | approved |
| S3-241014 | 01/03/2024 12:25:14 | approved |
| S3-241015 | 01/03/2024 12:25:15 | approved |
| S3-241016 | 01/03/2024 12:25:16 | approved |
| S3-241017 | 01/03/2024 12:25:16 | approved |
| S3-241018 | 01/03/2024 12:25:17 | approved |
| S3-241019 | 01/03/2024 12:25:18 | approved |
| S3-241020 | 29/02/2024 15:51:38 | approved |
| S3-241021 | 01/03/2024 11:48:14 | approved |
| S3-241022 | 01/03/2024 11:57:32 | noted |
| S3-241023 | 01/03/2024 12:25:19 | approved |
| S3-241024 | 01/03/2024 12:25:19 | approved |
| S3-241025 | 01/03/2024 12:25:20 | approved |
| S3-241026 | 01/03/2024 12:25:21 | approved |
| S3-241027 | 01/03/2024 12:25:22 | approved |
| S3-241028 | 01/03/2024 12:25:22 | approved |
| S3-241029 | 01/03/2024 12:25:23 | approved |
| S3-241030 | 01/03/2024 12:25:24 | approved |
| S3-241031 | 01/03/2024 12:25:25 | approved |
| S3-241032 | 01/03/2024 09:32:57 | agreed |
| S3-241033 | 01/03/2024 09:39:23 | agreed |
| S3-241034 | 01/03/2024 10:05:52 | agreed |
| S3-241035 | 01/03/2024 10:07:13 | agreed |
| S3-241036 | 01/03/2024 10:13:37 | agreed |
| S3-241037 | 01/03/2024 12:18:59 | approved |
| S3-241038 | 01/03/2024 13:19:36 | reserved |
| S3-241039 | 01/03/2024 12:14:31 | agreed |
| S3-241040 | 01/03/2024 12:43:26 | agreed |
| S3-241041 | 01/03/2024 12:58:04 | noted |
| S3-241042 | 04/03/2024 12:01:00 | reserved |
| S3-241042 | 04/03/2024 14:12:58 | approved |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-240372 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | 33.102 | 0284 | - | Rel-19 | F | TEI19 | not pursued |
| S3-240302 | GSMA review - Test Case on No Default Content | Nokia, Nokia Shanghai Bell, BSI | 33.117 | 0178 | - | Rel-18 | F | SCAS\_5G\_Ph3 | not pursued |
| S3-240303 | GSMA review - Test Case on No Directory Listings | Nokia, Nokia Shanghai Bell, BSI | 33.117 | 0179 | - | Rel-18 | F | SCAS\_5G\_Ph3 | not pursued |
| S3-240304 | GSM review - Test Case on No Web Server Header Info | Nokia, Nokia Shanghai Bell, BSI | 33.117 | 0180 | - | Rel-18 | F | SCAS\_5G\_Ph3 | not pursued |
| S3-240305 | GSMA review - Test Case on No Web Server Error Pages Info | Nokia, Nokia Shanghai Bell, BSI | 33.117 | 0181 | - | Rel-18 | F | SCAS\_5G\_Ph3 | not treated |
| S3-240306 | GSMA review - Test Case on No Web Server File Type Mappings | Nokia, Nokia Shanghai Bell | 33.117 | 0182 | - | Rel-18 | F | SCAS\_5G\_Ph3 | not treated |
| S3-240307 | Correcting range of values for IEs | Nokia, Nokia Shanghai Bell | 33.117 | 0183 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240350 | GSMA - Remove ambiguity from TC 4.4.2 | Keysight Technologies UK Ltd | 33.117 | 0184 | - | Rel-18 | F | SCAS\_5G\_Ph3 | revised |
| S3-240869 | GSMA - Remove ambiguity from TC 4.4.2 | Keysight Technologies UK Ltd | 33.117 | 0184 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240381 | Clarifications to Robustness and Fuzz test cases | MITRE Corporation | 33.117 | 0185 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240531 | Clarification on execute steps 3 about operating system to adapt to more scenario | Huawei, HiSilicon | 33.117 | 0186 | - | Rel-18 | F | SCAS\_5G\_Ph3 | revised |
| S3-240871 | Clarification on execute steps 3 about operating system to adapt to more scenario | Huawei, HiSilicon | 33.117 | 0186 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240539 | Reformulation of verbatim copied requirements | Huawei, HiSilicon | 33.117 | 0187 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-240540 | Resolution of the editor's notes in the SBA tests | Huawei, HiSilicon | 33.117 | 0188 | - | Rel-17 | F | eSCAS\_5G | agreed |
| S3-240541 | Resolution of the editor's notes in the SBA tests | Huawei, HiSilicon | 33.117 | 0189 | - | Rel-18 | A | eSCAS\_5G | agreed |
| S3-240423 | Revocation procedure invoked by resource owner client | Huawei, HiSilicon | 33.122 | 0057 | - | Rel-18 | F | SNAAPPY | merged |
| S3-240424 | Revocation procedures invoked by API invoker | Huawei, HiSilicon | 33.122 | 0058 | - | Rel-18 | F | SNAAPPY | merged |
| S3-240425 | Correction on authentication and authorization for RNAA | Huawei, HiSilicon | 33.122 | 0059 | - | Rel-18 | F | SNAAPPY | agreed |
| S3-240426 | Access token profile for Annex C | Huawei, HiSilicon | 33.122 | 0060 | - | Rel-18 | F | SNAAPPY | revised |
| S3-240852 | Access token profile for Annex C | Huawei, HiSilicon | 33.122 | 0060 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-240427 | Clarification to flow selection for RNAA | Huawei, HiSilicon | 33.122 | 0061 | - | Rel-18 | F | SNAAPPY | revised |
| S3-240849 | Clarification to flow selection for RNAA | Huawei, HiSilicon | 33.122 | 0061 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-240475 | Alignment of 33.122 for RNAA | NTT DOCOMO | 33.122 | 0062 | - | Rel-18 | F | SNAAPPY | revised |
| S3-241039 | Alignment of 33.122 for RNAA | NTT DOCOMO | 33.122 | 0062 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-240625 | SNAAPPY - Update to RNAA functional security model description | Nokia, Nokia Shanghai Bell | 33.122 | 0063 | - | Rel-18 | F | SNAAPPY | agreed |
| S3-240635 | Security Negotiation for RNAA | Ericsson | 33.122 | 0064 | - | Rel-18 | F | SNAAPPY | merged |
| S3-240636 | Details for RNAA token | Ericsson | 33.122 | 0065 | - | Rel-18 | F | SNAAPPY | merged |
| S3-240695 | Revocation procedure for RNAA | Samsung | 33.122 | 0066 | - | Rel-18 | F | TEI18 | merged |
| S3-240791 | Update for CAPIF 8 | Xiaomi | 33.122 | 0067 | - | Rel-18 | F | SNAAPPY | revised |
| S3-240851 | Update for CAPIF 8 | Xiaomi | 33.122 | 0067 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-240792 | Add revocation procedure for RNAA-related tokens | Xiaomi | 33.122 | 0068 | - | Rel-18 | F | SNAAPPY | revised |
| S3-240850 | Add revocation procedure for RNAA-related tokens | Xiaomi | 33.122 | 0068 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-240793 | Resolve ENs related to token claims | Xiaomi | 33.122 | 0069 | - | Rel-18 | F | SNAAPPY | merged |
| S3-240794 | Resolve EN related to authorization request or token request | Xiaomi | 33.122 | 0070 | - | Rel-18 | F | SNAAPPY | agreed |
| S3-240795 | Resolve ENs related to API invoker ID mapping | Xiaomi | 33.122 | 0071 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-240301 | [33.180] MC gateway authentication and authorization | Motorola Solutions Germany | 33.180 | 0210 | - | Rel-18 | B | MCXSec3 | revised |
| S3-240861 | [33.180] MC gateway authentication and authorization | Motorola Solutions Germany | 33.180 | 0210 | 1 | Rel-18 | B | MCXSec3 | agreed |
| S3-240443 | Validate FQDN of P-CSCF against the subjectAltName field in its server certificate | CableLabs | 33.203 | 0275 | - | Rel-15 | F | TEI15 | not pursued |
| S3-240444 | Validate FQDN of P-CSCF against the subjectAltName field in its server certificate | CableLabs | 33.203 | 0276 | - | Rel-16 | A | TEI15 | not pursued |
| S3-240445 | Validate FQDN of P-CSCF against the subjectAltName field in its server certificate | CableLabs | 33.203 | 0277 | - | Rel-17 | A | TEI17 | not pursued |
| S3-240575 | CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | 33.203 | 0278 | - | Rel-18 | F | TEI18 | revised |
| S3-240855 | CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | 33.203 | 0278 | 1 | Rel-18 | F | TEI18 | not pursued |
| S3-240686 | Certificate validation on IMS access interface | Ericsson | 33.203 | 0279 | - | Rel-19 | F | CryptoSP | revised |
| S3-240893 | Certificate validation on IMS access interface | Ericsson;CableLabs | 33.203 | 0279 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-240639 | Updates to TLS protocol profiles | Nokia, Nokia Shanghai Bell | 33.210 | 0077 | - | Rel-17 | B | CryptoSP | merged |
| S3-240650 | Updates to Profiling of IPsec | Nokia, Nokia Shanghai Bell | 33.210 | 0078 | - | Rel-17 | B | CryptoSP | not pursued |
| S3-240675 | Updates to the IKEv2 profile | Ericsson | 33.210 | 0079 | - | Rel-19 | F | CryptoSP | revised |
| S3-240877 | Updates to the IKEv2 profile | Ericsson | 33.210 | 0079 | 1 | Rel-19 | F | CryptoSP | not pursued |
| S3-240676 | Updates to the 3GPP TLS profile | Ericsson | 33.210 | 0080 | - | Rel-19 | C | CryptoSP | revised |
| S3-240878 | Updates to the 3GPP TLS profile | Ericsson | 33.210 | 0080 | 1 | Rel-19 | C | CryptoSP | not pursued |
| S3-240465 | Update the reference to DTLS 1.3 | ZTE Corporation | 33.220 | 0228 | - | Rel-19 | F | CryptoSP | withdrawn |
| S3-240621 | Update the reference to DTLS 1.3 | ZTE | 33.220 | 0229 | - | Rel-19 | F | CryptoSP | revised |
| S3-240880 | Update the reference to DTLS 1.3 | ZTE | 33.220 | 0229 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-240673 | Updating Obsolete RFC 2818 by RFC 9110 | Ericsson | 33.246 | 0195 | - | Rel-19 | F | CryptoSP | agreed |
| S3-240674 | Replacing MD5 with SHA-256 in Example | Ericsson | 33.246 | 0196 | - | Rel-19 | F | CryptoSP | agreed |
| S3-240429 | Clarification to direct C2 security for unicast | Huawei, HiSilicon | 33.256 | 0041 | - | Rel-18 | F | UAS\_Ph2 | not pursued |
| S3-240431 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | 33.256 | 0042 | - | Rel-17 | F | ID\_UAS | merged |
| S3-240432 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | 33.256 | 0043 | - | Rel-18 | F | ID\_UAS | merged |
| S3-240482 | Clarification related to reliable location | Huawei, HiSilicon | 33.256 | 0044 | - | Rel-17 | F | ID\_UAS | not pursued |
| S3-240483 | Clarification related to reliable location | Huawei, HiSilicon | 33.256 | 0045 | - | Rel-18 | A | ID\_UAS | not pursued |
| S3-240637 | Rel18-Clarification on reliable location information | Ericsson | 33.256 | 0046 | - | Rel-18 | F | UAS\_Ph2 | not pursued |
| S3-240767 | Cleans up AMF and SMF relation for UUAA | Lenovo | 33.256 | 0047 | - | Rel-18 | F | UAS\_Ph2 | revised |
| S3-241002 | Cleans up AMF and SMF relation for UUAA | Lenovo | 33.256 | 0047 | 1 | Rel-18 | A | ID\_UAS | agreed |
| S3-240768 | Cleans up AMF and SMF relation for UUAA | Lenovo | 33.256 | 0048 | - | Rel-17 | F | ID\_UAS | revised |
| S3-241003 | Cleans up AMF and SMF relation for UUAA | Lenovo | 33.256 | 0048 | 1 | Rel-17 | F | ID\_UAS | agreed |
| S3-240395 | Add missing RFC4122 in References section | Ericsson | 33.310 | 0190 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-240845 | Add missing RFC4122 in References section | Ericsson | 33.310 | 0190 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-240396 | Add missing RFC4122 in References section | Ericsson | 33.310 | 0191 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-240846 | Add missing RFC4122 in References section | Ericsson | 33.310 | 0191 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-240397 | Add missing RFC4122 in References section | Ericsson | 33.310 | 0192 | - | Rel-18 | A | 5G\_eSBA | revised |
| S3-240847 | Add missing RFC4122 in References section | Ericsson | 33.310 | 0192 | 1 | Rel-18 | A | 5G\_eSBA | agreed |
| S3-240399 | Clarify pre-registration in CA/RA for NF instance ID verification | Ericsson | 33.310 | 0193 | - | Rel-18 | F | ACM\_SBA | revised |
| S3-240848 | Clarify pre-registration in CA/RA for NF instance ID verification | Ericsson | 33.310 | 0193 | 1 | Rel-18 | F | ACM\_SBA | agreed |
| S3-240433 | Editorial changes to TS33.310 | Huawei, HiSilicon | 33.310 | 0194 | - | Rel-18 | F | TEI18 | agreed |
| S3-240534 | Updates to the certificate lifecycle management | Huawei, HiSilicon | 33.310 | 0195 | - | Rel-18 | F | ACM\_SBA | not pursued |
| S3-240535 | Clarifications to the CMP message protection | Huawei, HiSilicon | 33.310 | 0196 | - | Rel-18 | F | ACM\_SBA | agreed |
| S3-240580 | Updates to the SBA certificate profile | Nokia, Nokia Shanghai Bell | 33.310 | 0197 | - | Rel-18 | F | ACM\_SBA | not pursued |
| S3-240582 | Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | 33.310 | 0198 | - | Rel-19 | B | TEI19 | revised |
| S3-240954 | Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | 33.310 | 0198 | 1 | Rel-19 | B | TEI19 | agreed |
| S3-240583 | Correction to validation of usage of X.509 certificate procedure | Nokia, Nokia Shanghai Bell, Ericsson | 33.310 | 0199 | - | Rel-18 | F | ACM\_SBA | revised |
| S3-240993 | Correction to validation of usage of X.509 certificate procedure | Nokia, Nokia Shanghai Bell, Ericsson | 33.310 | 0199 | 1 | Rel-18 | F | ACM\_SBA | not pursued |
| S3-240664 | Updating Internet Drafts to Final RFCs (Rel-17) | Ericsson | 33.434 | 0018 | - | Rel-17 | F | eSEAL | revised |
| S3-240858 | Updating Internet Drafts to Final RFCs (Rel-17) | Ericsson | 33.434 | 0018 | 1 | Rel-17 | F | eSEAL | agreed |
| S3-240665 | Updating Internet Drafts to Final RFCs (Rel-18) | Ericsson | 33.434 | 0019 | - | Rel-18 | A | eSEAL | revised |
| S3-240859 | Updating Internet Drafts to Final RFCs (Rel-18) | Ericsson | 33.434 | 0019 | 1 | Rel-18 | A | eSEAL | agreed |
| S3-240731 | Protection of UPU header | Qualcomm Incorporated | 33.501 | 1612 | 3 | Rel-18 | F | TEI18, 5GS\_Ph1-SEC | merged |
| S3-240737 | Security profiles for PRINS | Nokia, Nokia Shanghai Bell | 33.501 | 1889 | 1 | Rel-18 | F | Roaming5G | revised |
| S3-240889 | Security profiles for PRINS | Nokia, Nokia Shanghai Bell | 33.501 | 1889 | 2 | Rel-18 | F | Roaming5G | agreed |
| S3-240617 | CVD-0069 Cross check on NF discovery request | Nokia, Nokia Shanghai Bell | 33.501 | 1890 | 1 | Rel-18 | F | 5G\_eSBA\_Ph2 | not treated |
| S3-240618 | CVD-0069 Condition of including allowed sNSSAIs in access token | Nokia, Nokia Shanghai Bell | 33.501 | 1891 | 1 | Rel-18 | F | 5G\_eSBA\_Ph2 | withdrawn |
| S3-240291 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE | 33.501 | 1899 | - | Rel-18 | F | eNPN\_Ph2 | revised |
| S3-240899 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE | 33.501 | 1899 | 1 | Rel-18 | F | eNPN\_Ph2 | agreed |
| S3-240329 | Correction of UDM service naming | BSI (DE) | 33.501 | 1900 | - | Rel-18 | A | 5GS\_Ph1-SEC | revised |
| S3-240857 | Correction of UDM service naming | BSI (DE) | 33.501 | 1900 | 1 | Rel-18 | A | 5GS\_Ph1-SEC | agreed |
| S3-240353 | Enhancement in UPU procedure to protect UPU header | Nokia, Nokia Shanghai Bell | 33.501 | 1901 | - | Rel-18 | F | TEI18 | merged |
| S3-240355 | Editorial Correction | Nokia, Nokia Shanghai Bell | 33.501 | 1902 | - | Rel-18 | F | HN\_Auth | merged |
| S3-240371 | Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network | BSI (DE) | 33.501 | 1903 | - | Rel-19 | F | TEI19 | not pursued |
| S3-240375 | Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case | BSI (DE) | 33.501 | 1904 | - | Rel-19 | C | Shared\_Data, SCAS\_5G\_UDR | revised |
| S3-240647 | Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case | BSI (DE) | 33.501 | 1904 | 1 | Rel-19 | C | SCAS\_5G\_UDR | revised |
| S3-240723 | Forcing the UDR-UDM interface to exclusively use 3GPP-defined security protocols in the non co-located deployment case | BSI (DE) | 33.501 | 1904 | 2 | Rel-19 | C | SCAS\_5G\_UDR | not pursued |
| S3-240418 | Home control for Network Slice Admission Control procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE | 33.501 | 1905 | - | Rel-19 | B | DUMMY | not pursued |
| S3-240435 | Clarification on SBI service request procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1906 | - | Rel-17 | F | TEI17 | not pursued |
| S3-240436 | Clarification on SBI service request procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1907 | - | Rel-18 | F | TEI18 | merged |
| S3-240437 | Clarification on SBI token | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1908 | - | Rel-17 | F | TEI17 | not pursued |
| S3-240438 | Clarification on SBI token | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1909 | - | Rel-18 | A | TEI17 | not pursued |
| S3-240459 | CR on the failure cases in home network triggered re-authentication | ZTE Corporation | 33.501 | 1910 | - | Rel-18 | F | HN\_Auth | merged |
| S3-240461 | Clear up for HONTRA procedure | ZTE Corporation | 33.501 | 1911 | - | Rel-18 | F | HN\_Auth | revised |
| S3-240853 | Clear up for HONTRA procedure | ZTE Corporation | 33.501 | 1911 | 1 | Rel-18 | F | HN\_Auth | agreed |
| S3-240462 | Add service operations to TS 33.501 based on HONTRA | ZTE Corporation | 33.501 | 1912 | - | Rel-18 | F | HN\_Auth | agreed |
| S3-240463 | Remove the reference to TLS 1.1 | ZTE Corporation | 33.501 | 1913 | - | Rel-19 | F | CryptoSP | not pursued |
| S3-240471 | Add some context to 5GMSG on AKMA Ua star protocol | ZTE FRANCE SASU | 33.501 | 1914 | - | Rel-18 | F | 5GMSG | withdrawn |
| S3-240472 | TS 33.501 Rel17 CR on correcting NSWO static network name | CableLabs | 33.501 | 1915 | - | Rel-17 | F | TEI17 | not pursued |
| S3-240473 | TS 33.501 Rel18 CR on correcting NSWO static network name | CableLabs | 33.501 | 1916 | - | Rel-18 | A | TEI18 | not pursued |
| S3-240477 | MTLF Authorization of AIML model storage and sharing | vivo | 33.501 | 1917 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240498 | Update procedure for secured and authorized AIML model sharing | Huawei, HiSilicon | 33.501 | 1918 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-240911 | Update procedure for secured and authorized AIML model sharing | Huawei, HiSilicon | 33.501 | 1918 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240499 | Editorial change on procedure for protection of analytics exchange in roaming case | Huawei, HiSilicon | 33.501 | 1919 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-240914 | Editorial change on procedure for protection of analytics exchange in roaming case | Huawei, HiSilicon | 33.501 | 1919 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-240500 | Remove the EN in the X.9 Authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | 33.501 | 1920 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240501 | Correct procedure for authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | 33.501 | 1921 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-240913 | Correct procedure for authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | 33.501 | 1921 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240502 | Security of Analytics transfer between NWDAFs | Huawei, HiSilicon | 33.501 | 1922 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240530 | Clarification on the function of UE ID trusted non-3GPP access | Huawei, HiSilicon | 33.501 | 1923 | - | Rel-18 | F | TEI18 | revised |
| S3-240992 | Clarification on the function of UE ID trusted non-3GPP access | Huawei, HiSilicon | 33.501 | 1923 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-240550 | Clarification on the usage of N32-f context ID and N32-f message ID | Huawei, HiSilicon | 33.501 | 1924 | - | Rel-18 | F | Roaming5G | revised |
| S3-241036 | Clarification on the usage of N32-f context ID and N32-f message ID | Huawei, HiSilicon | 33.501 | 1924 | 1 | Rel-18 | F | Roaming5G | agreed |
| S3-240551 | Modification on the definition of Roaming Hub | Huawei, HiSilicon | 33.501 | 1925 | - | Rel-18 | F | Roaming5G | revised |
| S3-240891 | Modification on the definition of Roaming Hub | Huawei, HiSilicon | 33.501 | 1925 | 1 | Rel-18 | F | Roaming5G | agreed |
| S3-240558 | Clarification on alignment of message and failure cause in HONTRA | Huawei, HiSilicon | 33.501 | 1926 | - | Rel-19 | F | HN\_Auth | revised |
| S3-240854 | Clarification on alignment of message and failure cause in HONTRA | Huawei, HiSilicon | 33.501 | 1926 | 1 | Rel-19 | F | HN\_Auth | not pursued |
| S3-240577 | Authorization of NWDAF MTLF to request FL process on behalf of AnLF | Nokia, Nokia Shanghai Bell | 33.501 | 1927 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240578 | Authorization of Model Sharing with MTLF | Nokia, Nokia Shanghai Bell | 33.501 | 1928 | - | Rel-18 | F | eNA\_Ph3\_SEC | merged |
| S3-240579 | Update of figure in clause X.10 of TS 33.501 (eNA) | Nokia, Nokia Shanghai Bell | 33.501 | 1929 | - | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-240585 | Revert the Annex P of TS 33.501 to Informative | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1930 | - | Rel-17 | F | EDGE\_Ph2 | merged |
| S3-240586 | Revert Annex P of 33.501 to Informative Rel18 | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1931 | - | Rel-18 | F | EDGE\_Ph2 | merged |
| S3-240588 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | 33.501 | 1932 | - | Rel-17 | F | EDGE\_Ph2 | revised |
| S3-240907 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | 33.501 | 1932 | 1 | Rel-17 | F | eEDGE\_5GC | agreed |
| S3-240589 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | 33.501 | 1933 | - | Rel-18 | A | EDGE\_Ph2 | revised |
| S3-240908 | Details of the DNS security mechanism in EDGE computing (non-roaming) | Nokia, Nokia Shanghai Bell | 33.501 | 1933 | 1 | Rel-18 | A | eEDGE\_5GC | agreed |
| S3-240590 | Details of the DNS security mechanism in EDGE computing (roaming) | Nokia, Nokia Shanghai Bell | 33.501 | 1934 | - | Rel-18 | F | EDGE\_Ph2 | revised |
| S3-240909 | Details of the DNS security mechanism in EDGE computing (roaming) | Nokia, Nokia Shanghai Bell | 33.501 | 1934 | 1 | Rel-18 | F | EDGE\_Ph2 | agreed |
| S3-240602 | Updates to Federated Learning | Intel | 33.501 | 1935 | - | Rel-18 | B | eNA\_Ph3\_SEC | agreed |
| S3-240604 | Update flow of Nnwdaf\_MLModelProvision | Intel Technology Poland SP Zoo | 33.501 | 1936 | - | Rel-18 | B | eNA\_Ph3\_SEC | revised |
| S3-240910 | Update flow of Nnwdaf\_MLModelProvision | Intel Technology Poland SP Zoo | 33.501 | 1936 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240622 | Add some context to 5GMSG on AKMA Ua star protocol | ZTE | 33.501 | 1937 | - | Rel-18 | F | TEI18 | revised |
| S3-240856 | Add some context to 5GMSG on AKMA Ua star protocol | ZTE | 33.501 | 1937 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-240627 | Corrections to NSWO with CH AAA | Ericsson | 33.501 | 1938 | - | Rel-18 | F | eNPN\_Ph2 | revised |
| S3-240916 | Corrections to NSWO with CH AAA | Ericsson | 33.501 | 1938 | 1 | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-240644 | Clarifying N32f and N32c correlation need | Nokia, Nokia Shanghai Bell | 33.501 | 1939 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not pursued |
| S3-240648 | Clarifications on NRF and NFp checks | Nokia, Nokia Shanghai Bell | 33.501 | 1940 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | merged |
| S3-240653 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | 33.501 | 1941 | - | Rel-17 | D | eNPN | revised |
| S3-240900 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | 33.501 | 1941 | 1 | Rel-17 | F | eNPN | agreed |
| S3-240654 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | 33.501 | 1942 | - | Rel-18 | D | eNPN\_Ph2 | revised |
| S3-240901 | Resolution of EN concerning indication from UDM to AUSF to select authentication with external credential holder | Nokia, Nokia Shanghai Bell | 33.501 | 1942 | 1 | Rel-18 | A | eNPN | agreed |
| S3-240655 | Replacing SUPI with SUCI in I.10.2.2 | Ericsson | 33.501 | 1943 | - | Rel-18 | F | eNPN\_Ph2 | revised |
| S3-240917 | Replacing SUPI with SUCI in I.10.2.2 | Ericsson | 33.501 | 1943 | 1 | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-240656 | Replacing SUPI with SUCI in I.10.3.2 | Ericsson | 33.501 | 1944 | - | Rel-18 | F | eNPN\_Ph2 | revised |
| S3-240918 | Replacing SUPI with SUCI in I.10.3.2 | Ericsson | 33.501 | 1944 | 1 | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-240660 | Terminology correction | Ericsson | 33.501 | 1945 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | agreed |
| S3-240661 | Consistency Between NF Profile and Certificate | Ericsson, Deutsche Telekom, China Telecom, KDDI | 33.501 | 1946 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | revised |
| S3-240867 | Consistency Between NF Profile and Certificate | Ericsson, Deutsche Telekom, China Telecom, KDDI | 33.501 | 1946 | 1 | Rel-18 | F | 5G\_eSBA\_Ph2 | not pursued |
| S3-240662 | Clarification of input parameter verification for token-based authorization | Ericsson, Deutsche Telekom, KDDI | 33.501 | 1947 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | merged |
| S3-240666 | Voiding Reference to TLS 1.1 | Ericsson | 33.501 | 1948 | - | Rel-16 | F | CryptPr | agreed |
| S3-240667 | Voiding Reference to TLS 1.1 | Ericsson | 33.501 | 1949 | - | Rel-17 | A | CryptPr | agreed |
| S3-240668 | Voiding Reference to TLS 1.1 | Ericsson | 33.501 | 1950 | - | Rel-18 | A | CryptPr | agreed |
| S3-240670 | Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included | Ericsson | 33.501 | 1951 | - | Rel-17 | F | TEI17 | not pursued |
| S3-240671 | Serving Network Name check at AUSF for the case that the 3gpp-Sbi-Originating-Network-Id header is not included | Ericsson | 33.501 | 1952 | - | Rel-18 | A | TEI17 | not pursued |
| S3-240672 | Update of an Obsoleted RFC | Ericsson | 33.501 | 1953 | - | Rel-19 | F | CryptoSP | not pursued |
| S3-240677 | Change of requirements for DTLS over SCTP (DTLS/SCTP) | Ericsson | 33.501 | 1954 | - | Rel-19 | F | CryptoSP | not pursued |
| S3-240678 | Clarifications for EAP-TLS 1.3 | Ericsson | 33.501 | 1955 | - | Rel-19 | F | CryptoSP | not pursued |
| S3-240679 | Clarifications of privacy options for EAP-TLS | Ericsson | 33.501 | 1956 | - | Rel-19 | F | CryptoSP | not pursued |
| S3-240681 | Validation of the allowed slices in the access token request at NRF | Ericsson | 33.501 | 1957 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | revised |
| S3-240895 | Validation of the allowed slices in the access token request at NRF | Ericsson | 33.501 | 1957 | 1 | Rel-18 | F | 5G\_eSBA\_Ph2 | agreed |
| S3-240682 | Validation of the requested slices at NF service producer | Ericsson | 33.501 | 1958 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not treated |
| S3-240683 | Support iat claim in the access token | Ericsson | 33.501 | 1959 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not pursued |
| S3-240684 | Clarification of security requirement on NF Discovery response | Ericsson | 33.501 | 1960 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not treated |
| S3-240689 | Clarification for Model Sharing with MTLF | Ericsson | 33.501 | 1961 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-240754 | UPU Header Security | Lenovo | 33.501 | 1962 | - | Rel-18 | F | 5GS\_Ph1-SEC | revised |
| S3-240991 | UPU Header Security | Lenovo | 33.501 | 1962 | 1 | Rel-18 | F | 5GS\_Ph1-SEC | not pursued |
| S3-240776 | Clarification to non-SBA interfaces | Nokia, Nokia Shanghai Bell | 33.501 | 1963 | - | Rel-18 | F | TEI18 | not pursued |
| S3-240815 | Alignments on terminology for roaming intermediaries | Nokia, Nokia Shanghai Bell | 33.501 | 1964 | - | Rel-18 | F | Roaming5G | revised |
| S3-240890 | Alignments on terminology for roaming intermediaries | Nokia, Nokia Shanghai Bell | 33.501 | 1964 | 1 | Rel-18 | F | Roaming5G | agreed |
| S3-240842 | Correction of UDM service naming | BSI (DE) | 33.501 | 1965 | - | Rel-17 | A | 5GS\_Ph1-SEC | agreed |
| S3-240843 | Correction of UDM service naming | BSI (DE) | 33.501 | 1966 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-240844 | Correction of UDM service naming | BSI (DE) | 33.501 | 1967 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-240884 | Backtracking 5G roaming changes | Huawei | 33.501 | 1968 | - | Rel-16 | B | TEI16 | endorsed |
| S3-240885 | Backtracking 5G roaming changes | Huawei | 33.501 | 1969 | - | Rel-17 | B | TEI17 | endorsed |
| S3-240990 | SCPAC: Updates to Security for Selective SCG Activation | Samsung, Ericsson, Huawei, HiSilicon, Apple, Nokia, Nokia Shanghai Bell, Intel | 33.501 | 1970 | - | Rel-18 | B | TEI18 | agreed |
| S3-240339 | 5G ProSe UE-to-UE relay communication security | Philips International B.V. | 33.503 | 0156 | - | Rel-18 | B | 5G\_ProSe\_Ph2 | not pursued |
| S3-240340 | Clause 6.1.3.2.3 - Clarification related to the direct discovery set | Philips International B.V. | 33.503 | 0157 | - | Rel-18 | B | 5G\_ProSe\_Ph2 | revised |
| S3-241033 | Clause 6.1.3.2.3 - Clarification related to the direct discovery set | Philips International B.V. | 33.503 | 0157 | 1 | Rel-18 | B | 5G\_ProSe\_Ph2 | agreed |
| S3-240341 | Clause 6.6.3.2 – Security procedures without network assitance check | Philips International B.V. | 33.503 | 0158 | - | Rel-18 | B | 5G\_ProSe\_Ph2 | not pursued |
| S3-240388 | Remove circular reference in U2U Relay discovery Model A | Interdigital | 33.503 | 0159 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-240864 | Remove circular reference in U2U Relay discovery Model A | Interdigital | 33.503 | 0159 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-240506 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | 33.503 | 0160 | - | Rel-17 | F | 5G\_ProSe | revised |
| S3-240862 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | 33.503 | 0160 | 1 | Rel-17 | F | 5G\_ProSe | agreed |
| S3-240509 | Clarification on multiple relay discovery security materials | Huawei, HiSilicon | 33.503 | 0161 | - | Rel-17 | F | 5G\_ProSe | merged |
| S3-240510 | Clarification on multiple relay discovery security materials | Huawei, HiSilicon | 33.503 | 0162 | - | Rel-18 | A | 5G\_ProSe | merged |
| S3-240511 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | 33.503 | 0163 | - | Rel-18 | A | 5G\_ProSe | revised |
| S3-240863 | Update to the identification of U2NW discovery security materials | Huawei, HiSilicon | 33.503 | 0163 | 1 | Rel-18 | A | 5G\_ProSe | agreed |
| S3-240607 | CR to TS33.503 Update U2U Relay Discovery procedure with Model A | CATT | 33.503 | 0164 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | not pursued |
| S3-240609 | CR to TS33.503 Update U2U Relay Discovery procedure with Model B | CATT | 33.503 | 0165 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | not pursued |
| S3-240610 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell | 33.503 | 0166 | - | Rel-17 | F | TEI17 | merged |
| S3-240611 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell | 33.503 | 0167 | - | Rel-18 | A | TEI18 | merged |
| S3-240732 | Rel18 ProSe – Clarification on direct discovery set protection in U2U relay discovery with model A | Qualcomm Incorporated | 33.503 | 0168 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-240994 | Rel18 ProSe – Clarification on direct discovery set protection in U2U relay discovery with model A | Qualcomm Incorporated | 33.503 | 0168 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-240733 | Rel18 ProSe – Update on security of PC5 communication for U2U Relay without network assistance | Qualcomm Incorporated | 33.503 | 0169 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-240779 | Clarification on the collection of direct discovery set in the 5G ProSe UE-to-UE Relay Discovery with Model A | Xiaomi | 33.503 | 0170 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | merged |
| S3-240514 | update UP policy testing to align with split gNB SCAS | Huawei, HiSilicon | 33.511 | 0065 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240374 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | 33.514 | 0013 | - | Rel-19 | F | SCAS\_5G\_Ph3 | not pursued |
| S3-240562 | Added parameters to NRF discovery authorization | BSI (DE) | 33.518 | 0006 | - | Rel-19 | F | SCAS\_5G\_Ph3 | revised |
| S3-241001 | Added parameters to NRF discovery authorization | BSI (DE) | 33.518 | 0006 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | not pursued |
| S3-240729 | Adding the missing Xn-U interface | Qualcomm Incorporated | 33.523 | 0002 | 1 | Rel-18 | F | SCAS\_5G\_split\_gNB | withdrawn |
| S3-240728 | Correct clause references to TS 33.511 | Qualcomm Incorporated | 33.523 | 0007 | - | Rel-18 | F | SCAS\_5G\_split\_gNB | agreed |
| S3-240825 | Adding the missing Xn-U interface | Qualcomm Incorporated | 33.523 | 0008 | - | Rel-18 | F | SCAS\_5G\_split\_gNB | agreed |
| S3-240376 | Removal of note in GVNP lifecyle management | BSI (DE) | 33.527 | 0004 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240328 | Alignment of service exposure via user plane authorization. | Sony, Philips International B.V. | 33.533 | 0033 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-240342 | Update of local privacy check in clause 6.3.7 for Network-assisted procedure | Philips International B.V. | 33.533 | 0034 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-240343 | Update of local privacy check in clause 6.3.7 for client UE exposure | Philips International B.V. | 33.533 | 0035 | - | Rel-18 | B | Ranging\_SL\_Sec | merged |
| S3-240344 | Clarification of local privacy check in clause 6.3.7 | Philips International B.V. | 33.533 | 0036 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-240345 | Update of local privacy check in clause 6.3.7 for server UE request | Philips International B.V. | 33.533 | 0037 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-240346 | Update of privacy check for exposure of location of Located UE by LMF | Philips International B.V. | 33.533 | 0038 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-240384 | SL Positioning UE Privacy and Authorization | InterDigital, Europe, Ltd. | 33.533 | 0039 | - | Rel-18 | C | FS\_Ranging\_SL\_Sec | revised |
| S3-240821 | SL Positioning UE Privacy and Authorization | InterDigital, Europe, Ltd. | 33.533 | 0039 | 1 | Rel-18 | C | Ranging\_SL\_Sec | not pursued |
| S3-240394 | Add authorization procedure for Ranging service exposure through 5GC user plane | OPPO | 33.533 | 0040 | - | Rel-18 | B | FS\_Ranging\_SL\_Sec | withdrawn |
| S3-240456 | Editorial correction to the clause 6.3.5 | ZTE | 33.533 | 0041 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-240457 | Add the NL6 interface to the clause 5.3 | ZTE | 33.533 | 0042 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-240487 | Clarification on the procedure for authorization of AF/5GC NF/LCS Client | Huawei, HiSilicon | 33.533 | 0043 | - | Rel-18 | F | Ranging\_SL | merged |
| S3-240488 | Location\_PrivacyCheck service from GMLC | Huawei, HiSilicon | 33.533 | 0044 | - | Rel-18 | F | Ranging\_SL | merged |
| S3-240494 | Removing the edito’s note to clause 4.2.2 in TS 33.533 | Huawei, HiSilicon | 33.533 | 0045 | - | Rel-18 | F | Ranging\_SL | not pursued |
| S3-240497 | Update to the authorization procedure for Ranging/SL positioning | Huawei, HiSilicon | 33.533 | 0046 | - | Rel-18 | F | Ranging\_SL | merged |
| S3-240566 | Add procedure of UE privacy verification for Network based operation of service exposure through PC5 link | OPPO | 33.533 | 0047 | - | Rel-18 | B | Ranging\_SL\_Sec | withdrawn |
| S3-240593 | Update procedure of UE privacy verification for UE-only operation of service exposure through PC5 link | OPPO | 33.533 | 0048 | - | Rel-18 | F | Ranging\_SL\_Sec | withdrawn |
| S3-240599 | Editorial correction in clause 6.3.5 of TS 33.533 | OPPO | 33.533 | 0049 | - | Rel-18 | D | Ranging\_SL\_Sec | withdrawn |
| S3-240726 | Add authorization procedure for Ranging/SL positioning service exposure through 5GC user plane | OPPO | 33.533 | 0050 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-240734 | Update on UE role authorization during discovery | Qualcomm Incorporated | 33.533 | 0051 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-241034 | Update on UE role authorization during discovery | Qualcomm Incorporated | 33.533 | 0051 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-240741 | Add procedure of UE privacy verification for Network based operation of service exposure through PC5 link | OPPO | 33.533 | 0052 | - | Rel-18 | B | Ranging\_SL\_Sec | merged |
| S3-240742 | Update procedure of UE privacy verification for UE-only operation of service exposure through PC5 link | OPPO | 33.533 | 0053 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-240750 | Correction on authorization for Ranging and Sidelink Positioning | Ericsson | 33.533 | 0054 | - | Rel-18 | F | Ranging\_SL\_Sec | not treated |
| S3-240751 | Clarification on the UE Ranging/SL Positioning privacy profile | Ericsson, Xiaomi | 33.533 | 0055 | - | Rel-18 | B | Ranging\_SL\_Sec | revised |
| S3-240949 | Clarification on the UE Ranging/SL Positioning privacy profile | Ericsson, Xiaomi | 33.533 | 0055 | 1 | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-240752 | Clarification on the procedure of UE privacy check | Ericsson | 33.533 | 0056 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-240948 | Clarification on the procedure of UE privacy check | Ericsson | 33.533 | 0056 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-240753 | UE Privacy handling for service exposure through PC5 | Ericsson | 33.533 | 0057 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-240929 | UE Privacy handling for service exposure through PC5 | Ericsson | 33.533 | 0057 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-240755 | Editorial correction in clause 6.3.5 of TS 33.533 | OPPO | 33.533 | 0058 | - | Rel-18 | D | Ranging\_SL\_Sec | merged |
| S3-240778 | Clarification on the authorization for UEs belonging to different PLMNs | Beijing Xiaomi Mobile Software | 33.533 | 0059 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-240797 | Assumption on the privacy of Located UE | Xiaomi Technology | 33.533 | 0060 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-240798 | Privacy Check of n UEs for UE-only Operation | Xiaomi Technology | 33.533 | 0061 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-240799 | UE privacy check for exposure to Client UE via PC5 | Xiaomi Technology | 33.533 | 0062 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-240801 | Authorization for service exposure to Client UE via 5GC UP | Xiaomi Technology | 33.533 | 0063 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-240802 | PC5 security policy for Ranging/SL positioning service | Xiaomi Technology | 33.533 | 0064 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-240865 | PC5 security policy for Ranging/SL positioning service | Xiaomi Technology | 33.533 | 0064 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-240803 | Adding notes for Ranging/SL positioning broadcast/groupcast communication | Xiaomi Technology | 33.533 | 0065 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-241035 | Adding notes for Ranging/SL positioning broadcast/groupcast communication | Xiaomi Technology | 33.533 | 0065 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-240804 | Clean up of TS 33.533 | Xiaomi Technology | 33.533 | 0066 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-240866 | Clean up of TS 33.533 | Xiaomi Technology | 33.533 | 0066 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-240356 | AKMA service mid session disabling in roaming | Nokia, Nokia Shanghai Bell, NDRE | 33.535 | 0198 | - | Rel-18 | B | AKMA\_Ph2 | merged |
| S3-240365 | AKMA service restriction in roaming | NDRE, Ministère Economie et Finances, National Technical Assistance, Nokia, OTD\_US, Security Service | 33.535 | 0199 | - | Rel-18 | B | AKMA | merged |
| S3-240448 | KAF re-keying after expiration triggered by AF | ZTE Corporation | 33.535 | 0200 | - | Rel-18 | F | HN\_Auth | not pursued |
| S3-240449 | KAF re-keying after expiration triggered by AAnF | ZTE Corporation | 33.535 | 0201 | - | Rel-18 | F | HN\_Auth | revised |
| S3-240995 | KAF re-keying after expiration triggered by AAnF | ZTE Corporation | 33.535 | 0201 | 1 | Rel-18 | F | HN\_Auth | agreed |
| S3-240451 | Adding UDM additional function to TS 33.535 in R18 | ZTE Corporation | 33.535 | 0202 | - | Rel-18 | F | HN\_Auth | agreed |
| S3-240452 | Adding UDM additional function to TS 33.535 in R17 | ZTE Corporation | 33.535 | 0203 | - | Rel-17 | F | AKMA | agreed |
| S3-240454 | CR on AKMA service restrictions | ZTE Corporation | 33.535 | 0204 | - | Rel-18 | F | AKMA | not pursued |
| S3-240464 | Update the reference to DTLS 1.3 | ZTE Corporation | 33.535 | 0205 | - | Rel-19 | F | CryptoSP | withdrawn |
| S3-240620 | Update the reference to DTLS 1.3 | ZTE Corporation | 33.535 | 0206 | - | Rel-19 | F | CryptoSP | revised |
| S3-240879 | Update the reference to DTLS 1.3 | ZTE Corporation | 33.535 | 0206 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-240708 | AKMA roaming policy control in AAnF | China Mobile | 33.535 | 0207 | - | Rel-18 | F | TEI18 | revised |
| S3-240915 | AKMA roaming policy control in AAnF | China Mobile | 33.535 | 0207 | 1 | Rel-18 | B | DUMMY | agreed |
| S3-240789 | Routing indicator update issue in the A-KID construction procedure Release 17 | Xiaomi Communications | 33.535 | 0208 | - | Rel-17 | F | AKMA | not pursued |
| S3-240790 | Routing indicator update issue in the A-KID construction procedure Release 18 (mirror) | Xiaomi | 33.535 | 0209 | - | Rel-18 | A | AKMA | not pursued |
| S3-240331 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | 33.926 | 0086 | - | Rel-19 | B | SCAS\_5G\_PCF | revised |
| S3-240649 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | 33.926 | 0086 | 1 | Rel-19 | B | SCAS\_5G\_PCF | revised |
| S3-240725 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | 33.926 | 0086 | 2 | Rel-19 | B | SCAS\_5G\_PCF | revised |
| S3-240860 | Annex regarding assets and threats specific to the PCF network product class | BSI (DE) | 33.926 | 0086 | 3 | Rel-18 | B | SCAS\_5G\_PCF | agreed |
| S3-240373 | Add UDM threat reference for missing verification of synchronization failure messages. | BSI (DE) | 33.926 | 0087 | - | Rel-19 | F | SCAS\_5G\_Ph3 | not pursued |
| S3-240537 | Removal of N3IWF annex | Huawei, HiSilicon | 33.926 | 0088 | - | Rel-17 | F | SCAS\_5G\_N3IWF | agreed |
| S3-240538 | Removal of incomplete N3IWF annex (mirror) | Huawei, HiSilicon | 33.926 | 0089 | - | Rel-18 | A | SCAS\_5G\_N3IWF | not pursued |
| S3-240542 | Reformulation of verbatim copied requirements | Huawei, HiSilicon | 33.926 | 0090 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-240563 | Added parameters to NRF discovery authorization threat reference | BSI (DE) | 33.926 | 0091 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-240736 | Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | IIT Bombay | 33.926 | 0092 | - | Rel-19 | B | SCAS\_5G\_SMSF | revised |
| S3-240873 | Add a new clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | IIT Bombay | 33.926 | 0092 | 1 | Rel-19 | B | SCAS\_5G\_SMSF | agreed |
| S3-240774 | Add a clause in annexure to Security Assurance Specification (SCAS) threats and critical assets in 3GPP network product classes specific to SMSF | IIT Bombay | 33.926 | 0093 | - | Rel-19 | B | SCAS\_5G\_SMSF | not pursued |
| S3-240775 | Add VM traffic isolation security threat to TR 33.927 3GPp virtualized network product classes | China Mobile Com. Corporation | 33.927 | 0002 | - | Rel-18 | F | VNP\_SECAM\_SCAS | revised |
| S3-241032 | Add VM traffic isolation security threat to TR 33.927 3GPp virtualized network product classes | China Mobile Com. Corporation | 33.927 | 0002 | 1 | Rel-18 | F | VNP\_SECAM\_SCAS | agreed |
| S3-240758 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson | 43.020 | 0085 | - | Rel-8 | F | TEI8 | revised |
| S3-240956 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia,Nokia Shanghai Bell | 43.020 | 0085 | 1 | Rel-8 | F | TEI8 | agreed |
| S3-240958 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0086 | - | Rel-9 | A | TEI8 | agreed |
| S3-240959 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0087 | - | Rel-10 | A | TEI8 | agreed |
| S3-240960 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0088 | - | Rel-11 | A | TEI8 | agreed |
| S3-240961 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0089 | - | Rel-12 | A | TEI8 | agreed |
| S3-240962 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0090 | - | Rel-13 | A | TEI8 | agreed |
| S3-240963 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0091 | - | Rel-14 | A | TEI8 | agreed |
| S3-240964 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0092 | - | Rel-15 | A | TEI8 | agreed |
| S3-240965 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0093 | - | Rel-16 | A | TEI8 | agreed |
| S3-240966 | Explicit requirement on initial INPUT value for the GPRS-A5 ciphering algorithm | Ericsson,Nokia, Nokia Shanghai Bell | 43.020 | 0094 | - | Rel-17 | A | TEI8 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-240208 |  | Elaborated LS reply to S3-234350 on Roaming Hub requirements as applicable to the Modified PRINS solution | GSMA | replied to | S3-240887 |
| S3-240209 |  | Elaborated LS reply to S3-234350 on IPX Service Hub requirements as applicable to the Modified PRINS solution | GSMA | replied to | S3-240888 |
| S3-240210 |  | LS to 3GPP CT4 on in-path and in-query parameters | GSMA | noted | (none) |
| S3-240211 |  | LS on nested JSON structures and reply to LS S3-235067 | GSMA | noted | (none) |
| S3-240212 |  | LS to 3GPP on data plane control by roaming hubs | GSMA | noted | (none) |
| S3-240213 |  | LS to 3GPP on PRINS security profiles | GSMA | noted | (none) |
| S3-240214 |  | LS on service authorization for/to partner MC system | C1-239502 | replied to | S3-240947 |
| S3-240215 |  | LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | C3-235567 | replied to | S3-240829 |
| S3-240216 |  | LS on Authorization of NF service consumer for data collection via DCCF | C3-235594 | replied to | S3-240830 |
| S3-240217 |  | Reply LS on CAPIF extensibility | C3-235619 | noted | (none) |
| S3-240218 |  | Reply LS on CAPIF extensibility | C3-240155 | noted | (none) |
| S3-240219 |  | Reply LS on Decorated NAI format for 5G-NSWO for SNPN Scenarios | C4-235479 | noted | S3-240787 |
| S3-240220 |  | LS on clarification on home network triggered re-authentication | C4-235577 | postponed | ???? |
| S3-240221 |  | Reply LS on N32 Race conditions and recovery | C4-235586 | noted | (none) |
| S3-240222 |  | Reply LS on including Source and Destination Interface Type for Indirect DL Data Forwarding Tunnel related N4 requests | C4-235681 | noted | (none) |
| S3-240223 |  | Quantum Safe Cryptographic Protocol Inventory | ETSI TC CYBER | postponed | (none) |
| S3-240224 |  | LS from TSG IMSDCAS to 3GPP SA3 on the data channel application authorization to access DCMTSI client in terminal signalling services and the general security principles that should apply | GSMA | replied to | S3-240832 |
| S3-240225 |  | CVD-2023-0079 - Lack of GPRS IOV randomisation | GSMA | replied to | S3-240892 |
| S3-240226 |  | Comments from ETSI TC CYBER on GSMA Solutions for Monitoring of Encrypted 5GS Signaling Traffic | ETSI TC CYBER | noted | (none) |
| S3-240227 |  | LSout on ""Certificate Management"" | ETSI ISG NFV | replied to | S3-240833 |
| S3-240228 |  | Response LS to 3GPP CT3 on CAPIF extensibility | ETSI ISG MEC | noted | (none) |
| S3-240229 |  | LS to 3GPP SA3 re Definition of Term ‘Network Product Class’ | GSMA | replied to | S3-240839 |
| S3-240230 |  | LS reply on LS on MSISDN exposure to trusted AF | GSMA | noted | S3-240834 |
| S3-240231 |  | Reply LS on the user consent for trace reporting | R3-237964 | noted | (none) |
| S3-240232 |  | Support for MCE ID | R3-238003 | noted | (none) |
| S3-240233 |  | Reply LS on Clarification on Removal of the Indicator of UUAA result from AMF | S2-2309697 | noted | (none) |
| S3-240234 |  | Clarification related to reliable location | S2-2309698 | postponed | ???? |
| S3-240235 |  | LS on MSISDN exposure to trusted AF | S2-2311893 | replied to | S3-240834 |
| S3-240236 |  | LS on Ranging/SL Positioning service exposure security and privacy check | S2-2313776 | replied to | S3-240836 |
| S3-240237 |  | Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | S2-2313777 | noted | (none) |
| S3-240238 |  | Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | S2-2313793 | replied to | S3-240906 |
| S3-240239 |  | Reply LS on L2ID and User Info for L2 based U2U | S2-2313796 | noted | (none) |
| S3-240240 |  | Reply LS on Trigger for secure user plane establishment via user plane | S2-2313809 | noted | (none) |
| S3-240241 |  | LS to RAN2/CT WGs on RAN&CT alignment issues | S2-2313889 | noted | (none) |
| S3-240242 |  | Reply LS on the user consent for trace reporting | S2-2401578 | noted | (none) |
| S3-240243 |  | Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | S2-2401584 | noted | ???? |
| S3-240244 |  | Reply LS on uniqueness of ProSe U2N RSC | S2-2401587 | noted | (none) |
| S3-240245 |  | LS on limited MSISDN exposure | S2-2401649 | replied to | S3-240834 |
| S3-240246 |  | Reply LS on security aspects for Ranging/Sidelink Positioning | S2-2401651 | noted | S3-240496 |
| S3-240247 |  | Reply LS on MDT for NPN | S5-238101 | noted | (none) |
| S3-240248 |  | Reply LS on user consent for SON/MDT for NB-IoT UEs | S5-238102 | noted | (none) |
| S3-240249 |  | Reply LS to LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic | S5-238140 | noted | (none) |
| S3-240250 |  | LS on clarifications regarding RNAA | S6-233770 | noted | (none) |
| S3-240251 |  | LS on evaluating security aspects for MC services over MC gateway UE | S6-233821 | replied to | S3-240828 |
| S3-240252 |  | SAGE-23-02 Resynchronisation protection f5\*\* for MILENAGE-128 and Tuak. | ETSI SAGE | noted | (none) |
| S3-240253 |  | Reply LS to GSMA on Monitoring of Encrypted 5GS Signalling Traffic | SP-231668 | noted | (none) |
| S3-240254 |  | LS on Prohibition of GEA1 & GEA2 Support in all releases | SP-231782 | noted | (none) |
| S3-240255 |  | LS from NG to 3GPP SA3-LI on Lawful Interception of IMS Data Channel | GSMA | noted | (none) |
| S3-240256 |  | LS reply to S3-233786 and S3-234296 on the introduction of the domain ""ipxnetwork.org"" and clarifications of the Outsourced SEPP and Hosted SEPP deployment scenarios | GSMA | replied to | S3-240886 |
| S3-240257 |  | LS on AKMA service restrictions in Rel-17 | C3-232563 | replied to | S3-241042 |
| S3-240258 |  | LS on Removal of the uavAuthenticated IE from Create SM Context Request | C4-230790 | replied to | S3-240835 |
| S3-240259 |  | CVD-2023-0075 - Certificate validation on IMS access interface | GSMA | replied to | S3-240894 |
| S3-240260 |  | CVD-2023-0069 - 5G Core Network Attacks | GSMA | postponed | (none) |
| S3-240261 |  | Non-Support of Ciphering Algorithm GEA2 | GCF | noted | (none) |
| S3-240262 |  | LIAISON STATEMENT ON AEAD mode of ZUC-256 Algorithm | CCSA | noted | S3-240838 |
| S3-240263 |  | LS reply to GSMA NG/UPG on Lawful Interception of IMS Data Channel | s3i240070 | noted | (none) |
| S3-240264 |  | LS on AKMA service restrictions in roaming | s3i240084 | replied to | S3-241043 |
| S3-240265 |  | LS regarding the publication of the Post Quantum Cryptography – Guidelines for Telecom Use Cases document in Feb 24 | GSMA | postponed | (none) |
| S3-240266 |  | Reply to LS on potential collaboration between 3GPP SA5 and ETSI SAI TC | S5-241079 | noted | (none) |
| S3-240267 |  | Reply to LS on 3GPP work on energy efficiency | S4-240517 | noted | (none) |
| S3-240289 |  | Reply LS on Support for MCE ID | S5-240021 | noted | (none) |
| S3-240290 |  | Reply LS on the user consent for trace reporting | S5-241084 | noted | (none) |
| S3-240692 |  | LS on 3GPP studies for PQC Migration | GSMA | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-240828 | Reply LS on evaluating security aspects for MC services over MC gateway UE | SA6 | CT1 | S3-240251 |
| S3-240829 | Reply LS on Issues related to user consent for retrieving data stored in the ADRF/NWDAF | CT3 | SA2 | S3-240215 |
| S3-240830 | Reply LS on authorization the CCA of the new Data Consumer | CT3 | CT4, SA2 | S3-240216 |
| S3-240832 | Reply LS to GSMATSG IMSDCAS | GSMA TSG IMSDCAS | SA4 | S3-240224 |
| S3-240833 | Reply LS on Certificate Management | ETSI NFV | O-RAN WG11, ETSI ISG ZSM | S3-240227 |
| S3-240834 | Reply LS on MSISDN exposure | SA2,SA | SA6 | S3-240245,S3-240235 |
| S3-240835 | Response LS to C4-230790 | CT4 | SA2, CT1 | S3-240258 |
| S3-240836 | Reply LS on Ranging/SL Positioning service exposure security and privacy check | SA2 | SA1, SA6 | S3-240236 |
| S3-240838 | LS on AEAD mode of ZUC-256 algorithm | ETSI SAGE | CCSA TC5WG5 | - |
| S3-240839 | Reply LS to GSMA on defintion of network product class | GSMA NESAS | - | S3-240229 |
| S3-240840 | Reply LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | ITU-T SG17 | - | - |
| S3-240886 | LS reply to S3-240256 on the introduction of the domain ""ipxnetwork.org"" | GSMA 5GMRR | - | S3-240256 |
| S3-240887 | Reply LS on Roaming Hub requirements as applicable to the Modified PRINS solution | SA | SA1, SA5, CT, CT4 | S3-240208 |
| S3-240888 | Reply LS on IPX Service Hub requirements as applicable to the Modified PRINS solution | SA | SA1, SA2, CT, CT4 | S3-240209 |
| S3-240892 | Reply LS on CVD-2023-0079 – Lack of GPRS IOV randomisation | GSMA CVD PoE | CT1 | S3-240225 |
| S3-240894 | LS on GSMA CVD-2023-0075 – Certificate validation on IMS access interface | GSMA CVD PoE, CT1 | GSMA NG, GSMA FASG | S3-240259 |
| S3-240906 | LS reply on DNS over TLS (DoT) | SA2 | - | S3-240238 |
| S3-240912 | LS on Issues related Analytics context transfer between AnLF(s) | SA2 | - |  |
| S3-240940 | LS on Registering JWT Claims at IANA | CT | CT3,CT4 |  |
| S3-240947 | Reply to: LS on service authorization for/to partner MC system | CT1,SA6 | SA1 | S3-240214 |
| S3-240950 | LS on security of IP transport over satellite transport links | SA2 | - |  |
| S3-241037 | LS on backtracking 5G roaming changes | SA | - |  |
| S3-241042 | Reply LS on AKMA service restrictions | CT3 | SA2,SA3-LI | S3-240257 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-240955 | Study on Security Aspect of Ambient IoT Services in 5G | OPPO, Apple, BUPT, Cable Labs, CATR, CATT, China Mobile, China Telecom, China Unicom, HiSilicon, Huawei, Intel, Inter Digital, KPN, Lenovo, Philips International B.V., Samsung, T-Mobile USA, Verizon, Vivo, Xiaomi, Xidian University, ZTE | SID new |
| S3-240957 | New SID on security aspects of Usage of User Identities | InterDigital Belgium. LLC | SID new |
| S3-240967 | R19 SID on UAS security enhancement | Huawei, HiSilicon | SID new |
| S3-240968 | Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3 | CATT | SID new |
| S3-240969 | New SID on Study on security aspects of AIML enhancements | China Mobile, vivo | SID new |
| S3-240970 | New\_SID\_EdgeComputing | Huawei, HiSilicon | SID new |
| S3-240971 | New SID on security aspects for Multi-Access | Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo, Charter, Intel | SID new |
| S3-240972 | New SID on 5GS enhancements for Energy Saving | Nokia, Nokia Shanghai Bell, OPPO, Telecom Italia | SID new |
| S3-240973 | New SID on Security aspects of 5G NR Femto | Nokia, Nokia Shanghai Bell, Verizon, Samsung, AT&T, Charter | SID new |
| S3-240974 | New SID on security aspects of 5G Mobile Metaverse services | Samsung, Nokia, Nokia Shanghai Bell, IIT Delhi, Lenovo, OPPO | SID new |
| S3-240641 | Revised SID on Study on Security Aspects of 5G Satellite Access Phase 3 | CATT | SID revised |
| S3-240988 | Revised SID on the security support for the Next Generation Real Time Communication services Phase 2 | Ericsson, China Mobile,Nokia, Nokia Shanghai Bell | SID revised |
| S3-240951 | R19 SCAS WID | Huawei, HiSilicon | WID new |
| S3-240952 | New WID on security aspects of the 5GMSG Service phase 3 | China Mobile | WID new |
| S3-241040 | New WID on AKMA service disabling | Nokia, Nokia Shanghai Bell, NDRE | WID new |
| S3-240875 | Updates on WID on Addition of 256-bit security Algorithms | Nokia, Nokia Shanghai Bell | WID revised |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-240207 | 33.776 | 0.0.0 | Proposed skeleton for TR 33.776 Study of Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA) |
| S3-240269 | 35.241 | 0.2.0 | Introduction of the Snow 5G 256-bits implementers’ test data |
| S3-240270 | 35.242 | 0.2.0 | Introduction of the Snow 5G 256-bits design conformance test data |
| S3-240271 | 35.243 | 0.2.0 | Introduction of the AES 256-bits algorithm specification |
| S3-240272 | 35.244 | 0.2.0 | Introduction of the AES 256-bits implementers’ test data |
| S3-240273 | 35.245 | 0.2.0 | Introduction of the AES 256-bits design conformance test data |
| S3-240274 | 35.246 | 0.2.0 | Introduction of the ZUC based 256-bits algorithm specification |
| S3-240275 | 35.247 | 0.2.0 | Introduction of the ZUC 256-bits implementers’ test data |
| S3-240276 | 35.248 | 0.2.0 | Introduction of the ZUC 256-bits design conformance test data |
| S3-240309 | 35.240 | 0.2.0 | Introduction of the Snow 5G 256-bits algorithm specification |
| S3-240314 | 33.794 | 0.0.0 | Draft TR33.794 Skeleton |
| S3-240315 | 33.702 | 0.0.0 | Draft 33.702 Study on Security for mobility over non-3GPP access to avoid full primary authentication |
| S3-240330 | 33.700-41 | 0.0.1 | Draft Skeleton for TR 33.700-41 |
| S3-240392 | 33.776 | 0.0.0 | Proposed skeleton for TR 33.776 Study of Automatic Certificate Management Environment (ACME) for the Service Based Architecture (SBA) |
| S3-240403 | 35.234 | 0.0.0 | TS 35.234 skeleton |
| S3-240404 | 35.235 | 0.0.0 | TS 35.235 Skeleton |
| S3-240405 | 35.236 | 0.0.0 | TS 35.236 Skeleton |
| S3-240406 | 35.237 | 0.0.0 | TS 35.237 Skeleton |
| S3-240411 | 33.757 | 0.0.0 | skeleton of TR 33.757 |
| S3-240548 | 33.701 | 0.0.0 | Skeleton for TR 33.701 - Study on mitigations against bidding down attacks |
| S3-240761 | 33.790 | 0.0.0 | TR 33.790 skeleton |
| S3-240817 | 35.234 | 0.0.0 | TS 35.234 skeleton |
| S3-240818 | 35.235 | 0.0.0 | TS 35.235 skeleton |
| S3-240819 | 35.236 | 0.0.0 | TS 35.236 skeleton |
| S3-240820 | 35.237 | 0.0.0 | TS 35.237 Skeleton |
| S3-240874 | 33.529 | 0.4.0 | Draft TS 33.529 |
| S3-240896 | 33.794 | 0.0.0 | Draft TR33.794 Skeleton |
| S3-240927 | 33.702 | 0.1.0 | Draft TR 33.702 |
| S3-240928 | 33.701 | 0.1.0 | Draft TR 33.701 |
| S3-240930 | 33.700-29 | 0.1.0 | Draft TR 33.700-29 |
| S3-240936 | 35.237 | 0.1.0 | Draft TS 35.237 |
| S3-240937 | 35.234 | 0.1.0 | Draft TS 35.234 |
| S3-240938 | 35.235 | 0.1.0 | Draft TS 35.235 |
| S3-240939 | 35.236 | 0.1.0 | Draft TS 35.236 |
| S3-240941 | 33.790 | 0.1.0 | Draft TR 33.790 |
| S3-240977 | 33.757 | 0.1.0 | Draft TR 33.757 |
| S3-240982 | 33.776 | 0.1.0 | Draft TR 33.776 |
| S3-241010 | 33.700-41 | 0.1.0 | Draft TR 33.700-41 |
| S3-241011 | 35.240 | 0.3.0 | Draft TS 35.240 |
| S3-241012 | 35.241 | 0.3.0 | Draft TS 35.241 |
| S3-241013 | 35.242 | 0.3.0 | Draft TS 35.242 |
| S3-241014 | 35.243 | 0.3.0 | Draft TS 35.243 |
| S3-241015 | 35.244 | 0.3.0 | Draft TS 35.244 |
| S3-241016 | 35.245 | 0.3.0 | Draft TS 35.245 |
| S3-241017 | 35.246 | 0.3.0 | Draft TS 35.246 |
| S3-241018 | 35.247 | 0.3.0 | Draft TS 35.247 |
| S3-241019 | 35.248 | 0.3.0 | Draft TS 35.248 |
| S3-241038 | 33.794 | 0.1.0 | Draft TR 33.794 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Dr. | Abhishek | Rohit | AT&T | AT&T Labs, Inc |
| Mr. | Agarwal | Deepak | CEWiT | CEWiT |
| Mr. | Aghili | Behrouz | Apple GmbH | Apple (Ulanqab) |
| Mr. | Ai | Ming | CATT | Wuhan Hongxin Technology |
| Mr. | Andreas | Joerg | BSI (DE) | BSI (DE) |
| Dr. | Baboescu | Florin | CableLabs | CableLabs |
| Mr. | Baek | Youngkyo | Samsung R&D Institute UK | BEIJING SAMSUNG TELECOM R&D |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility España SA |
| Dr. | Ben Henda | Noamen | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bhatt | Rakshesh P. | Nokia Japan | Nokia Corporation |
| Mr. | Biju | Goel | BT plc | BT plc |
| Mr. | Bilca | Michael | OTD\_US | OTD\_US |
| Mr. | Biswas | Sudipto | Motorola Solutions Germany | Motorola Solutions Germany |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Denmark |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Buckley | Adrian | OGC | MITRE Corporation |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon Denmark |
| Ms. | CHAKRABARTI | SAMITA | Verizon UK Ltd | Verizon Switzerland AG |
| Mrs. | chelibane | ouerdia | Orange | Orange Romania |
| Mr. | Chen | Ben | BJTU | BJTU |
| Mr. | Chen | Jingran | OPPO | OPPO |
| Ms. | Chen | Lijuan | ZTE Corporation | ZONSON |
| Ms. | Chen | Yuqin | Apple R&D | Apple AB Denmark |
| Miss | Cheng | Cuiru | China Unicom | BTPDI |
| Mr. | Cheng | Hong | Qualcomm Incorporated | Arriver Software AB |
| Dr. | Cheng | Peng | Apple | Apple Benelux B.V. |
| Mr. | Chervyakov | Andrey | Intel Corporation (UK) Ltd | Intel Ireland |
| Mr. | Chitturi | Suresh | Samsung Electronics Co., Ltd | Samsung R&D Institute India |
| Mr. | Cho | Daniel | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Ms. | Cho | Min Kyoung | DTCY | KDDI Corporation |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK | Samsung Electronics Czech |
| Miss | chong | vivian | VIVO TECH GmbH | vivo Mobile Communication (H) |
| Mr. | Cichonski | Jeff | NIST | NIST |
| Mr. | Cong | Shi | Guangdong OPPO Mobile Telecom. | OnePlus |
| Mr. | Dawes | Peter | VODAFONE Group Plc | Vodafone GmbH |
| Mr. | Dees | Walter | Philips International B.V. | Philips International B.V. |
| Mr. | Deng | Qiang | CATT | CICTCI |
| Dr. | Djemai | Tanissia | IRT Saint Exupery | IRT Saint Exupery |
| Mr. | Doerr | Johannes | BMWK | BMWK |
| Dr. | Dong | Hao | ZTE Corporation | ZTE Italia |
| Mr. | Doubrava | Michael | BSI (DE) | BSI (DE) |
| Ms. | Duan | Xiaoyan | CATT | CICT Mobile |
| Dr. | Dushchuluun | Khishigbayar | umlaut | umlaut |
| Mr. | Eckel | Charles | Cisco Systems Belgium | Cisco Systems Belgium |
| Ms. | Eitoku | Haruka | NTT corporation | NTT |
| Dr. | Engström | Alexander | NDRE | NDRE |
| Mr. | Ennesser | Francois | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Dr. | Escott | Adrian | Qualcomm Germany | QUALCOMM Europe Inc. - Spain |
| Dr. | Featherstone | Walter | Apple France | Apple Switzerland AG |
| Mr. | Feng | Yuang | ZTE Corporation | Jetflow |
| Mr. | Feng | Zhao | HuaWei Technologies Co., Ltd | Huawei Technologies Japan K.K. |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital Belgium. LLC |
| Dr. | Gadgil | Shubhada | IIT Bombay | IIT Bombay |
| Mr. | Gadhai | Shyam Vijay | IIT Kanpur | IIT Kanpur |
| Dr. | Gallo | Luigi | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Gao | Weihan | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Gerstenberger | Dirk | Ericsson LM | Ericsson Japan K.K. |
| Mr. | Goldberg | Martin | U.S. National Security Agency | U.S. National Security Agency |
| Mrs. | Goldner | Alla | Guangdong OPPO Mobile Telecom. | OPPO Beijing |
| Miss | Gonzalez | Veronica | VODAFONE Group Plc | Vodafone Romania S.A. |
| Dr. | Grime | Matthew | NCSC | NCSC |
| Mr. | Guo | Boren | OPPO | Hangzhou Mengyuxiang |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | Huawei Device Co., Ltd |
| Mr. | Guo | Yi | Intel Corporation (UK) Ltd | Intel Belgium SA/NV |
| Mr. | Gupta | Naman | Samsung Electronics Czech | Samsung Guangzhou Mobile R&D |
| Mr. | Gupta | Nishant | Qualcomm Technologies Int | Qualcomm India Pvt Ltd |
| Mr. | Gupta | Vivek | Apple Inc | Apple Trading |
| Dr. | Gutierrez Estevez | David | Samsung R&D Institute UK | Samsung Shenzhen |
| Prof. | Hanawal | Manjesh Kumar | IIT Bombay | IIT Bombay |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson Inc. |
| Dr. | Harris | Paul | VIAVI Solutions | VIAVI Solutions |
| Mr. | HASHMI | DANISH EHSAN | Samsung R&D Institute India | SAMSUNG R&D INSTITUTE JAPAN |
| Mr. | Hasselquist | David | Sectra Communications AB | Sectra Communications AB |
| Mr. | Hawbaker | Tyler | OTD\_US | OTD\_US |
| Mr. | Hu | Li | vivo Mobile Communication Co., | VIVO TECH GmbH |
| Miss | Huang | Xiaoting | China Mobile Com. Corporation | CMDI |
| Mr. | Huang | Zhenning | China Mobile Com. Corporation | China Mobile (Suzhou) Software |
| Mr. | Inoue | Yoshihiro | NTT | NTT-AT Corp. |
| Mr. | Jiang | Yi | China Mobile Com. Corporation | China Mobile (Hangzhou) Inf. |
| Dr. | K | Sowjanya | TSDSI | IIT Delhi |
| Mr. | Kakinada | Achari | Charter Communications, Inc | Charter Communications, Inc |
| Mr. | Kapale | Kiran | Samsung R&D Institute India | Samsung Electronics France SA |
| Dr. | Karakoc | Ferhat | Ericsson LM | Ericsson GmbH, Eurolab |
| Miss | ke | xiaowan | vivo Mobile Communication Co., | vivo Mobile Com. (Chongqing) |
| Miss | Kedalagudde | Meghashree D | Intel Deutschland GmbH | Intel Sweden AB |
| Dr. | Keesmaat | Iko | TNO | TNO |
| Dr. | Khan | Mohsin | Ericsson LM | Ericsson India Private Limited |
| Mr. | Khare | Saurabh | Nokia Germany | Nokia Solutions & Networks (I) |
| Dr. | Kiani | Abbas | Futurewei | Futurewei |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics Polska |
| Ms. | Kim | DongYeon | Samsung R&D Institute UK | Harman GmbH |
| Mr. | Kim | Hong Suk | LG Electronics France | LG Electronics Deutschland |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Tech. Netherlands B.V |
| Dr. | Kim | Hyunsook | LG Electronics Inc. | LG Electronics Inc. |
| Mr. | Kim | Jaewoo | LG Electronics France | LG Electronics France |
| Dr. | Kim | Laeyoung | LG Electronics France | LG Electronics UK |
| Ms. | Kim | Sunhee | LG Electronics France | LG Electronics Finland |
| Mr. | Kim | Warren | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Kiss | Krisztian | Apple Distribution Intl Ltd | Apple Benelux B.V. - Belgium |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel Technology Poland SP Zoo |
| Ms. | Koser | Elizabeth | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Kumar | Lalith | Samsung R&D Institute India | Samsung Research America |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Motorola Mobile Com Technology |
| Mr. | Kuo | Ping-Heng Wallace | Apple (UK) Limited | Apple GmbH |
| Mr. | Lair | Yannick | Nokia France | Nokia France |
| Mr. | Laitinen | Mika | Airbus | Airbus |
| Dr. | Lee | Daewon | Intel | Intel |
| Mr. | Lee | Jay | Verizon UK Ltd | Verizon UK Ltd |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | HuaWei Technologies Co., Ltd |
| Mr. | Li | Aihua | China Mobile Com. Corporation | CMDI |
| Ms. | Li | Chenyi | China Unicom | Unicompay |
| Mr. | Li | Fei | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies R&D UK |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Telecommunication India |
| Miss | LI | Jiahui | China Telecommunications | China Telecomunication Corp. |
| Mr. | LI | Xiaoqiang | Cybercore | Cybercore |
| Mr. | Li | Zhendong | Nubia Technology Co.,Ltd | Sanechips |
| Mr. | Li | Zhijun | ZTE Corporation | ZTE Corporation |
| Dr. | Liang | Henry (Haoran) | Xiaomi Communications | Xiaomi Communications |
| Miss | Liang | Shuang | Nubia Technology Co.,Ltd | ZTE Photonics |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon Spain |
| Mr. | Lim | Suhwan | Meta Ireland | Meta Ireland |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech | Beijing Xiaomi Electronics |
| Mr. | Liu | Liu | China Telecom Corporation Ltd. | Chinatelecom Cloud |
| Miss | Liu | Peilin | ZTE Corporation | ZTE Japan K.K. |
| Miss | Liu | Yubing | China Telecommunications | E-surfing Digital |
| Mr. | Liu | Yue | China Mobile Com. Corporation | China Mobile M2M Company Ltd. |
| Mr. | Liu | Yuze | ZTE Corporation | ZTE FRANCE SASU |
| Mr. | Lopez | Luis | Oracle Corporation | Oracle Corporation |
| Mr. | Lorenz | Ben | BSI (DE) | BSI (DE) |
| Mr. | Lottin | Philippe | Orange | Orange |
| Mr. | Loushine | Mike | AT&T | AT&T Services, Inc. |
| Mr. | Lu | Fei | Guangdong OPPO Mobile Telecom. | Chengdu OPPO Telecommunication |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi Technology |
| Mr. | Luetzenkirchen | Thomas | Intel Deutschland GmbH | Intel Deutschland GmbH |
| Mr. | Lyu | Huazhang | vivo Mobile Communication Co., | iQoo |
| Mr. | M Vamanan | Sudeep | Apple Benelux B.V. | Apple Distribution Intl Ltd |
| Mr. | Ma | Ruitao | China Unicom | CITC |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Mr. | MAO | Yuxin | Beijing Xiaomi Mobile Software | Beijing Xiaomi Software Tech |
| Mr. | Mariotte | Hubert | Orange | Orange Spain |
| Miss | Martinez Tarradell | Marta | Intel | Intel Corporation Italia SpA |
| Mr. | Mishima | Atsumu | SKY Perfect JSAT Corporation | SKY Perfect JSAT Corporation |
| Mr. | Mohanraj | John | Oracle Corporation | Oracle Corporation |
| Mr. | Monrad | Atle | InterDigital, Europe, Ltd. | InterDigital Communications |
| Dr. | Moon | Sang-Jun | Samsung Electronics Co., Ltd | Samsung Electronics Polska |
| Dr. | Mustapha | Mona | Apple France | Apple |
| Mr. | Nair | Suresh | Nokia Germany | Nokia |
| Mr. | NAKAMURA | Kazuo | NICT | NICT |
| Mr. | Nakano | Yusuke | KDDI Corporation | KDDI Corporation |
| Dr. | Nakano | Yuto | KDDI Corporation | KDDI Corporation |
| Mr. | Nas | Peter | F5 | F5 |
| Mr. | Nayak | Ashok Kumar | Samsung R&D Institute India | Samsung Electronics GmbH |
| Mr. | Negalaguli | Harish | Motorola Solutions UK Ltd. | Motorola Solutions UK Ltd. |
| Mr. | Nord | Lars | Sony Europe B.V. | Sony Europe B.V. |
| Mr. | Olvera | Ulises | InterDigital, Inc. | InterDigital Canada |
| Mr. | Orkopoulos | Stawros | Nokia Germany | Nokia Korea |
| Mr. | Osborne | Matthew | GE Network Technologies, LLC | GE Network Technologies, LLC |
| Dr. | Palat | Sudeep | Intel Corporation (UK) Ltd | Intel Technology India Pvt Ltd |
| Mr. | Palle | Naveen | Apple AB Denmark | Apple R&D |
| Mr. | Panda | Manas Kumar | Department of Telecom | Department of Telecom |
| Mr. | Parsel | Mike | T-Mobile USA | T-Mobile USA Inc. |
| Dr. | Pashalidis | Andreas | BSI (DE) | BSI (DE) |
| Dr. | Pateromichelakis | Emmanouil | Lenovo Future Communications | Beijing Lenovo Software Ltd. |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Deutsche Telekom AG |
| Mrs. | Pauliac | Mireille | THALES | THALES |
| Mr. | Peinado | German | Nokia Germany | Nokia Poland |
| Mr. | Petranovich | Jim | ViaSat Satellite Holdings Ltd | ViaSat Satellite Holdings Ltd |
| Mr. | Pica | Francesco | Qualcomm Incorporated | Qualcomm Technologies Int |
| Miss | Ping | Jing | Nokia Germany | Nokia Shanghai Bell |
| Dr. | Pu | Hongyi | HUAWEI TECHNOLOGIES Co. Ltd. | HiSilicon Technologies Co. Ltd |
| Mr. | Pudney | Chris | VODAFONE Group Plc | Vodafone Ireland Plc |
| Mr. | Qi | Minpeng | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Electronics Co., Ltd |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | Samsung R&D Institute UK |
| Mr. | Rathod | Niraj | Ericsson LM | Ericsson-LG Co., LTD |
| Mr. | Ravichandran | Bharath Kumar | Samsung R&D Institute India | Samsung Electronics Iberia SA |
| Ms. | Romaguera | Cristina | VODAFONE Group Plc | Vodafone Telekomünikasyon A.S. |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI Technologies Japan K.K. |
| Mr. | Rossbach | Ralf | Apple GmbH | Apple France |
| Ms. | Sabater | Susana | VODAFONE Group Plc | Vodafone Italia SpA |
| Mr. | Saleem | Imran | Huawei Tech.(UK) Co.. Ltd | Huawei Tech.(UK) Co.. Ltd |
| Dr. | Salkintzis | Apostolis | Motorola Mobility UK Ltd. | Motorola Mobility France S.A.S |
| Ing. | Sánchez | Antonio | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Schäfer | Pascal | umlaut | umlaut |
| Mr. | Schumacher | Gregory | Peraton Labs | Peraton Labs |
| Mr. | Scribano | Gino | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Shah | Sapan | Samsung R&D Institute India | Samsung Electronics Nordic AB |
| Mr. | Shan | Changhong | Intel Corporation (UK) Ltd | Intel China Ltd. |
| Miss | shang | zhengyi | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Shao | Weixiang | ZTE Corporation | ZTE JAPAN K.K. |
| Ms. | Shen | Jun | China Telecommunications | China Telecomunication Corp. |
| Ms. | Shi | Xiaonan | China Mobile Com. Corporation | China Mobile International Ltd |
| Mr. | Shieh | Hugh | AT&T GNS Belgium SPRL | AT&T |
| Mr. | Singh | Rohit | Indian Institute of Tech (M) | Indian Institute of Tech (M) |
| Mr. | SINHA | UTSAV | Samsung R&D Institute India | Samsung Nanjing |
| Mr. | Sirotkin | Sasha | Apple France | Apple Solutions |
| Mr. | Soloway | Alan | Qualcomm Technologies Int | Qualcomm France |
| Dr. | Speicher | Sebastian | Qualcomm Germany | Qualcomm Korea |
| Mrs. | Stanetsky | Nataliya | Google Ireland Limited | Google Inc. |
| Mr. | Starsinic | Michael | InterDigital, Inc. | InterDigital Pennsylvania |
| Mr. | Stefano | Faccin | QUALCOMM Europe Inc. - Italy | Qualcomm Incorporated |
| Mr. | Stojanovski | Saso | Intel Deutschland GmbH | Intel Corporation SAS |
| Mr. | Sun | Haiyang | HuaWei Technologies Co., Ltd | HUAWEI TECH. GmbH |
| Ms. | Sun | Xiaowen | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Miss | Sun | Yue | China Telecommunications | China Telecommunications |
| Dr. | Tan | Peng | OTECH | OTECH |
| Ms. | Tang | Tingfang | Beijing Xiaomi Mobile Software | Xiaomi EV Technology |
| Dr. | Targali | Yousif | Verizon UK Ltd | Verizon Sweden |
| Mr. | Thiebaut | Laurent | Nokia France | Nokia Japan |
| Dr. | Tonesi | Dario Serafino | Qualcomm Germany | QUALCOMM JAPAN LLC. |
| Dr. | Tsiatsis | Vlasios | Ericsson LM | Ericsson España S.A. |
| Mr. | Vujcic | Dragan | IDEMIA | IDEMIA |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Ms. | Wang | Dan | China Mobile Com. Corporation | China Mobile Group Device Co. |
| Mr. | Wang | Guanzhou | InterDigital Communications | InterDigital New York |
| Miss | Wang | Menghan | ZTE Corporation | Nubia Technology Co.,Ltd |
| Dr. | Wang | Yaxin | OPPO | Shenzhen Heytap |
| Dr. | Wang | Zhaoning | China Unicom | CU Digital Technology |
| Dr. | Wang | Zhibi | InterDigital Communications | InterDigital, Europe, Ltd. |
| Ms. | Warren | Denisha | U.S. National Security Agency | U.S. National Security Agency |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson Limited |
| Mr. | Wong | Marcus | OPPO | Guangdong OPPO Mobile Telecom. |
| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | Motorola Solutions Germany |
| Ms. | WU | Dan | Apple Trading | Apple Inc |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Wu | Xiaobo | vivo Mobile Communication Co., | vivo Mobile Communication Co., |
| Mr. | Wu | Zhibin | Apple Benelux B.V. | Apple (Guizhou) |
| Mrs. | Xiang | Amanda | Futurewei Technologies | Futurewei Technologies |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., | Nanjing Weibo |
| Mr. | Xie | Zhonghuai | China Unicom | VSENS |
| Mr. | Xing | TianQi | China Unicom | China Unicom |
| Mr. | Xing | Zhen | China Unicom | CUG |
| Miss | Xiong | Lihui | OPPO | Hangzhou Douku |
| Ms. | Xu | Fangli | Apple Computer Trading Co. Ltd | Apple (UK) Limited |
| Mrs. | Xu | Ling | ZTE Corporation | ShenZhen Zhongxing Shitong |
| Dr. | Xu | Tianni | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Xu | Yang | Guangdong OPPO Mobile Telecom. | OPPO (chongqing) Intelligence |
| Ms. | Xu | Yishan | Huawei Technologies R&D UK | Huawei Technologies (Korea) |
| Miss | Yan | Xiaojian | ZTE Corporation | CALTTA |
| Mr. | You | Shilin | ZTE Corporation | ZTE Korea Limited |
| Dr. | Zhang | Amy | vivo Mobile Communication Co., | GUANGDONG GENIUS TECHNOLOGY CO |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Miss | Zhang | Juan | Qualcomm Korea | Qualcomm Technologies Ireland |
| Mr. | Zhang | Kefeng | Qualcomm Incorporated | QUALCOMM Europe Inc. - Italy |
| Ms. | Zhang | Leyi | ZTE FRANCE SASU | ZTE |
| Miss | Zhang | Yuying | China Telecom Corporation Ltd. | Esurfing IoT |
| Miss | ZHAO | HUAN | China Unicom | Unicom Broadband Online |
| Ms. | Zheng | Shaowen | China Mobile Com. Corporation | China Mobile E-Commerce Co. |
| Mr. | Zhou | Wei | CATT | CATT |
| Miss | Zhou | Xingyue | ZTE Corporation | ZTE Corporation |
| Mr. | Zhu | Jinguo | ZTE Corporation | ZXNE |
| Mr. | Zhu | Zengbao | BUPT | BUPT |
| Mr. | Zisimopoulos | Haris | Qualcomm Technologies Int | Qualcomm Incorporated |
| Dr. | Zugenmaier | Alf | NTT DOCOMO INC. | DOCOMO Communications Lab. |
| Mr. | Zwingmann | Holger | umlaut | umlaut |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#116-(option 1) | 2024-05-13 | 2024-05-17 | Korea | KR | S3-116 |
| SA3#94-LI | 2024-07-09 | 2024-07-12 | EU | EU | S3-94-LI |
| SA3#117 | 2024-08-26 | 2024-08-30 | EU | EU | S3-117 |
| SA3#118 | 2024-10-07 | 2024-10-11 | India | IN | S3-118 |
| SA3#95-LI | 2024-10-29 | 2024-11-01 | US | US | S3-95-LI |
| SA3#119 | 2024-11-11 | 2024-11-15 | US TBC | US | S3-119 |