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

**Meeting Report  
for  
TSG SA WG3  
meeting: 109 AdHoc-e**

**Online, Electronic meeting, 16/01/2023 to 20/01/2023**

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## 1 Agenda and Meeting Objectives

**S3-230001 Agenda**

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

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

**S3-230002 Process for SA3#109Adhoc-e**

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

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

**S3-230003 Process and agenda planning for SA3#109AdHoc-e**

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

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

## 2 Meeting Reports

## 3 Reports and Liaisons from other Groups

**S3-230005 LS on U2N relay direct link setup failure due to RSC mismatch or integrity failure**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-226908*

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

**S3-230006 Reply LS on the progress and open issues for NPN enhancements in Rel-18**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-227157*

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

**S3-230007 LS on SL positioning groupcast and broadcast**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2213142*

**Decision:** The document was **replied to in S3-230430**.

**S3-230008 LS on user consent of Non-public Network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-226006*

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

**S3-230009 Reply LS on Progress and open issues for NPN enhancements in Rel-18**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-223540*

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

**S3-230010 Reply LS on the impact of MSK update on MBS multicast session update procedure**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2209287*

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

**S3-230011 LS on impact of URSP rule enforcement report to 5GC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2209327*

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

**S3-230012 Reply LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2210943*

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

**S3-230013 Slice based Steering of Roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2211204*

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

**S3-230014 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-223487*

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

**S3-230015 LS reply on SNAAPP requirements clarifications**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-223488*

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

**S3-230016 LS reply on CAPIF authorization roles related to FS\_SNAAPP**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-223489*

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

**S3-230017 LS on the use of a non-network defined identifier for UE identification**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-223558*

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

**S3-230018 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-223586*

**Decision:** The document was **replied to in S3-230463**.

**S3-230040 LS on MOCN TMGI ID impacting MSK, MTK**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230303 Reply LS on user consent of Non-public Network**

*Type: LS out For: Approval  
 to RAN3, cc RAN2, SA5  
 Source: Qualcomm Incorporated*

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

**S3-230310 Reply LS to S3-230017/S6-223558 on the use of a non-network defined identifier for UE identification**

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

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

**S3-230311 Reply LS to S3-230018/S6-223586 on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

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

**Decision:** The document was **revised to S3-230463**.

**S3-230312 Reply LS to R2-2213142 on SL positioning**

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

**Decision:** The document was **revised to S3-230430**.

**S3-230356 Reply LS on SL positioning groupcast and broadcast**

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

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

**S3-230430 Reply LS to R2-2213142 on SL positioning**

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

(Replaces S3-230312)

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

**S3-230463 Reply LS to S3-230018/S6-223586 on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

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

(Replaces S3-230311)

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

## 4 Work areas (Rel-18)

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

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

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

### 4.4 New WID on Security Assurance Specification (SCAS) for 5G Re17 Features

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

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

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

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

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

## 5 Rel-18 Studies

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

### 5.2 Study on Security Impacts of Virtualisation

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

**S3-230028 Evaluation TR 33.740 Sol #1**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-230435**.

**S3-230029 Evaluation TR 33.740 Sol #12**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-230436**.

**S3-230030 Evaluation TR 33.740 Sol #13**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-230437**.

**S3-230031 Evaluation TR 33.740 Sol #14**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

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

**S3-230032 Update to TR 33.740 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

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

**S3-230033 Update to TR 33.740 Conclusion for KI#4**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-230438**.

**S3-230103 Update the KI#6**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-230485**.

**S3-230104 New solution for the KI#6**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: ZTE Corporation*

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

**S3-230105 Conclusion for the KI#6**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: ZTE Corporation*

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

**S3-230126 Resolving EN for Solution 22**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: OPPO*

**Decision:** The document was **revised to S3-230492**.

**S3-230185 Address EN for So#l26**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230478**.

**S3-230186 Evaluate to the solution #20**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230479**.

**S3-230187 Evaluate to the solution #26**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230188 conclude to KI #2**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230191 Add Evaluation for ProSe Security Sol#6**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: OPPO*

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

**S3-230207 evaluation of TR33.740 Solution 8**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

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

**S3-230212 evaluation of TR33.740 Solution 11**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

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

**S3-230215 pCR to update TR33.740 Solution 11**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

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

**S3-230216 Conclusion to the KI#1**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

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

**S3-230219 evaluation to TR33.740 Solution 9**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

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

**S3-230221 Update to the evaluation of solution 23**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S3-230548**.

**S3-230234 Update to the evaluation of solution 24**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S3-230549**.

**S3-230235 Update to conclusion of KI#2 in TR 33.740**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

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

**S3-230253 EN removal for solution#27**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230586**.

**S3-230586 EN removal for solution#27**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230253)

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

**S3-230254 Resolve EN’s in Solution #27**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230497**.

**S3-230255 Evaluation to Solution #27**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230498**.

**S3-230256 Evaluation to solution #4**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230499**.

**S3-230257 Update to solution #30**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230500**.

**S3-230258 New security solution on discovery integrated into PC5 link establishment when L3 UE-to-UE relay is in coverage**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230501**.

**S3-230266 ProSe - Evaluation Solution #10**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-230454**.

**S3-230267 ProSe - Editorials Solution #10**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Philips International B.V.*

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

**S3-230268 ProSe - Evaluation Solution #15**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-230455**.

**S3-230292 Updates on the solution #23**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

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

**S3-230293 Updates on the solution #24**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

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

**S3-230294 LS on UE-to-UE relay discovery direct discovery**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Qualcomm Incorporated*

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

**S3-230295 Add an evaluation of solution #8**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

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

**S3-230296 Add an evaluation of solution #9**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

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

**S3-230297 Add an evaluation of solution #11**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

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

**S3-230298 Updates to the solution #25**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-230528**.

**S3-230327 EN Resolution and Evaluation of Sol #19**

*Type: pCR For: Approval  
 33.740 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230536**.

**S3-230328 EN Resolutions and Evaluation of Sol #29**

*Type: pCR For: Approval  
 33.740 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230537**.

**S3-230345 pCR to TR33.740 Update Solution16 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

**Decision:** The document was **revised to S3-230550**.

**S3-230346 pCR to TR33.740 Update Solution17 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

**Decision:** The document was **revised to S3-230551**.

**S3-230347 pCR to TR33.740 Update Solution18 for removing ENs and add evaluation**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

**Decision:** The document was **revised to S3-230552**.

**S3-230348 pCR to TR33.740 Update Solution28 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

**Decision:** The document was **revised to S3-230553**.

**S3-230349 pCR to TR33.740 Evaluation of Solution28**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

**Decision:** The document was **revised to S3-230554**.

**S3-230350 pCR to TR33.740 Conclusion of key issue #1**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

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

**S3-230351 pCR to TR33.740 Conclusion of key issue #2**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

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

**S3-230352 pCR to TR33.740 Conclusion of key issue #3**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

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

**S3-230392 Update to solution #8 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230393 Update to solution #9 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230394 Evaluation of solution #8 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-230556**.

**S3-230395 Evaluation of solution #9 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-230557**.

**S3-230396 Remove the Editor's Note and evaluate the solution #7 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230397 Remove the Editor's Notes of solution #20 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230398 Evaluation of solution #30 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-230558**.

**S3-230399 Conclusion on Key Issue #1 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230400 Conclusion on Key Issue #2 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230401 Conclusion on Key Issue #3 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230402 Conclusion on Key Issue #4 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230435 Evaluation TR 33.740 Sol #1**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-230028)

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

**S3-230436 Evaluation TR 33.740 Sol #12**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-230029)

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

**S3-230437 Evaluation TR 33.740 Sol #13**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-230030)

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

**S3-230438 Update to TR 33.740 Conclusion for KI#4**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-230033)

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

**S3-230454 ProSe - Evaluation Solution #10**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Philips International B.V.*

(Replaces S3-230266)

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

**S3-230455 ProSe - Evaluation Solution #15**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Philips International B.V.*

(Replaces S3-230268)

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

**S3-230478 Address EN for So#l26**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Huawei, HiSilicon*

(Replaces S3-230185)

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

**S3-230479 Evaluate to the solution #20**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Huawei, HiSilicon*

(Replaces S3-230186)

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

**S3-230485 Update the KI#6**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: ZTE Corporation*

(Replaces S3-230103)

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

**S3-230492 Resolving EN for Solution 22**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: OPPO*

(Replaces S3-230126)

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

**S3-230497 Resolve EN’s in Solution #27**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

(Replaces S3-230254)

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

**S3-230498 Evaluation to Solution #27**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

(Replaces S3-230255)

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

**S3-230499 Evaluation to solution #4**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

(Replaces S3-230256)

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

**S3-230500 Update to solution #30**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

(Replaces S3-230257)

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

**S3-230501 New security solution on discovery integrated into PC5 link establishment when L3 UE-to-UE relay is in coverage**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Ericsson*

(Replaces S3-230258)

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

**S3-230528 Updates to the solution #25**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Qualcomm Incorporated*

(Replaces S3-230298)

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

**S3-230536 EN Resolution and Evaluation of Sol #19**

*Type: pCR For: Approval  
 33.740 v0.4.0  
 Source: Samsung*

(Replaces S3-230327)

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

**S3-230537 EN Resolutions and Evaluation of Sol #29**

*Type: pCR For: Approval  
 33.740 v0.4.0  
 Source: Samsung*

(Replaces S3-230328)

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

**S3-230548 Update to the evaluation of solution 23**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

(Replaces S3-230221)

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

**S3-230549 Update to the evaluation of solution 24**

*Type: pCR For: (not specified)  
 33.740 v0.4.1  
 Source: China Telecom Corporation Ltd.*

(Replaces S3-230234)

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

**S3-230550 pCR to TR33.740 Update Solution16 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

(Replaces S3-230345)

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

**S3-230551 pCR to TR33.740 Update Solution17 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

(Replaces S3-230346)

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

**S3-230552 pCR to TR33.740 Update Solution18 for removing ENs and add evaluation**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

(Replaces S3-230347)

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

**S3-230553 pCR to TR33.740 Update Solution28 for removing ENs**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

(Replaces S3-230348)

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

**S3-230554 pCR to TR33.740 Evaluation of Solution28**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: CATT*

(Replaces S3-230349)

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

**S3-230556 Evaluation of solution #8 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-230394)

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

**S3-230557 Evaluation of solution #9 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-230395)

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

**S3-230558 Evaluation of solution #30 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-230398)

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

**S3-230567 Draft TR 33.740**

*Type: draft TR For: Approval  
 33.740 v0.5.0  
 Source: CATT*

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

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

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

### 5.6 New SID on AKMA phase 2

**S3-230056 Discussion on privacy issue in AKMA**

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

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

**S3-230057 key issue on AKMA privacy**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Samsung*

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

**S3-230058 conclusion updates**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230106 Add editors note to solution 5**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-230487**.

**S3-230107 Add editors note to solution 11**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230108 Address EN for solution 9**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230109 AUSF stores SN ID after primary authentication in solution 1**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230110 AUSF stores SN ID after primary authentication in solution 6**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230111 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230112 update the Key issue of AKMA roaming**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230145 Minor editorial corrections in Solution #5**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: LG Electronics*

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

**S3-230146 Minor editorial corrections in Solution #12**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: LG Electronics*

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

**S3-230147 Evaluation for Solution #5**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: LG Electronics*

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

**S3-230148 Evaluation for Solution #12**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: LG Electronics*

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

**S3-230197 add new conclusion to key issue#1**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230270 AKMA - Evaluation Solution #10**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Philips International B.V.*

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

**S3-230271 AKMA - Editorials Clause 4**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Philips International B.V.*

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

**S3-230274 Completion of solution #14**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: THALES*

**Abstract:**

This contribution resolves ENs and proposes evaluation for the solution #14

**Decision:** The document was **revised to S3-230458**.

**S3-230275 Conclusion to Key Issue #1**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: THALES*

**Abstract:**

This contribution proposes conclusion to Key Issue #1.

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

**S3-230325 Key Issue on KAF refresh**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Samsung*

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

**S3-230374 new Sol on AKMA roaming in multiple registration scenarios**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230375 TR 33.737 Evaluation for sol #15**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-230533**.

**S3-230376 TR 33.737 Conclusion for KI #1**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230420 adding new use case in KI1**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230458 Completion of solution #14**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: THALES*

(Replaces S3-230274)

**Abstract:**

This contribution resolves ENs and proposes evaluation for the solution #14

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

**S3-230487 Add editors note to solution 5**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: ZTE Corporation*

(Replaces S3-230106)

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

**S3-230533 TR 33.737 Evaluation for sol #15**

*Type: pCR For: Approval  
 33.737 v0.4.0  
 Source: Xiaomi communications*

(Replaces S3-230375)

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

**S3-230584 Draft TR 33.737 v0.5.0**

*Type: draft TR For: Approval  
 33.737 v0.5.0  
 Source: China Mobile*

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

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

**S3-230059 Discussion paper for MPS support over WLAN and relationship with HNTRA**

*Type: pCR For: Discussion  
 33.741 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230060 Conclusion enhancement for MPS support over WLAN**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230113 Add conclusion to KI#1**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230198 Delete EN in solution#4**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230199 Delete EN in solution#9**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230200 Delete EN in solution#12**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230291 Proposed addition to the conclusions**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230326 Update on use case clause and solution #6**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Samsung*

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

**S3-230411 Solution 12 updates**

*Type: pCR For: Approval  
 33.741 v0.4.0  
 Source: Ericsson*

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

**S3-230532 TR 33.741v050**

*Type: draft TR For: (not specified)  
 33.741 v0.5.0  
 Source: Huawei;HiSilicon*

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

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

**S3-230064 Update to Solution #9 in eNA**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230447**.

**S3-230065 Cyber attack detection**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230448**.

**S3-230080 New solution addressing KI#6**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo, Nokia*

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

**S3-230081 Evaluation of Solution#4**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230574**.

**S3-230082 Removal of EN in Solution#4**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

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

**S3-230091 Evaluation for solution#1**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-230456**.

**S3-230101 Resolving EN in solution#1**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

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

**S3-230102 New solution to KI#2**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-230457**.

**S3-230123 New solution to KI#5**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-230459**.

**S3-230179 new pcr**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230189 Conclusion for KI#2**

*Type: pCR For: (not specified)  
 33.738 v0.4.0  
 Source: Intel*

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

**S3-230203 Conclusion for KI#3**

*Type: pCR For: (not specified)  
 33.738 v0.4.0  
 Source: Intel*

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

**S3-230209 FL GROUP AUTHORIZATION OF NWDAF(S) IN 5GC**

*Type: pCR For: (not specified)  
 33.738 v0.4.0  
 Source: Intel*

**Decision:** The document was **revised to S3-230524**.

**S3-230237 EN related to Key Refresh and revocation**

*Type: pCR For: (not specified)  
 33.738 v0.4.0  
 Source: Intel*

**Decision:** The document was **revised to S3-230525**.

**S3-230239 New solution for KI#2 to support authorization of participant NWDAFs in FL**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230443**.

**S3-230240 ENs resolving and evaluation for solution #10**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230442**.

**S3-230241 Evaluation to Solution #11**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

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

**S3-230242 Evaluation to Solution #12**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

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

**S3-230243 Evaluation to Solution #13**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

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

**S3-230244 Adding conclusion on KI#3**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

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

**S3-230262 LS on data and analytics exchange in roaming case in eNA**

*Type: LS out For: Approval  
 to 3GPP SA2  
 Source: China mobile*

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

**S3-230263 Evaluation and EN resolving for solution #14**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China mobile*

**Decision:** The document was **revised to S3-230546**.

**S3-230264 Conclusion for key issue#1**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China mobile*

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

**S3-230265 Conclusion for key issue#5**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China mobile*

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

**S3-230340 Evaluation for Solution #6**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230341 Discussion paper on KI#3 related solutions evaluation.**

*Type: discussion For: Endorsement  
 33.738 v..  
 Source: Nokia, Nokia Shanghai Bell, China Mobile (Suzhou) Software*

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

**S3-230342 Adding conclusion on KI#1**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230506**.

**S3-230343 Solution for authorization in FL**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230488**.

**S3-230344 Adding conclusion on KI#3**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, China Mobile (Suzhou) Software*

**Decision:** The document was **revised to S3-230510**.

**S3-230442 ENs resolving and evaluation for solution #10**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

(Replaces S3-230240)

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

**S3-230443 New solution for KI#2 to support authorization of participant NWDAFs in FL**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Ericsson*

(Replaces S3-230239)

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

**S3-230447 Update to Solution #9 in eNA**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

(Replaces S3-230064)

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

**S3-230448 Cyber attack detection**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

(Replaces S3-230065)

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

**S3-230456 Evaluation for solution#1**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

(Replaces S3-230091)

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

**S3-230457 New solution to KI#2**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

(Replaces S3-230102)

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

**S3-230459 New solution to KI#5**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China Telecommunications*

(Replaces S3-230123)

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

**S3-230488 Solution for authorization in FL**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230343)

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

**S3-230506 Adding conclusion on KI#1**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, China Mobile*

(Replaces S3-230342)

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

**S3-230510 Adding conclusion on KI#3**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, China Mobile, Intel, Ericsson*

(Replaces S3-230344)

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

**S3-230524 FL GROUP AUTHORIZATION OF NWDAF(S) IN 5GC**

*Type: pCR For: (not specified)  
 33.738 v0.4.0  
 Source: Intel*

(Replaces S3-230209)

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

**S3-230525 EN related to Key Refresh and revocation**

*Type: pCR For: (not specified)  
 33.738 v0.4.0  
 Source: Intel*

(Replaces S3-230237)

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

**S3-230546 Evaluation and EN resolving for solution #14**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: China mobile*

(Replaces S3-230263)

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

**S3-230547 draft TR 33.738 0.5.0**

*Type: draft TR For: Approval  
 33.738 v0.5.0  
 Source: China Mobile Com. Corporation*

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

**S3-230574 Evaluation of Solution#4**

*Type: pCR For: Approval  
 33.738 v0.4.0  
 Source: Lenovo*

(Replaces S3-230081)

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

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

**S3-230037 New Solution of authorization for EDGE-9 reference point**

*Type: pCR For: (not specified)  
 33.739 v0.4.0  
 Source: InterDigital Communications*

**Abstract:**

Resubmit Tdoc that was not handled in the last meeting

**Decision:** The document was **revised to S3-230587**.

**S3-230587 New Solution of authorization for EDGE-9 reference point**

*Type: pCR For: -  
 33.739 v0.4.0  
 Source: InterDigital Communications*

(Replaces S3-230037)

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

**S3-230097 Conclusion on KI#2.1**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon, Thales*

**Decision:** The document was **revised to S3-230571**.

**S3-230098 Conclusion on KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon, Thales*

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

**S3-230099 Conclusion on KI#2.6**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230572**.

**S3-230100 Adding the overview of the EDGE**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230114 Add conclusion to KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230115 Add evaluation to solution #6**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-230489**.

**S3-230158 Addressing the ENs in solution 15**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230159 Addressing the ENs in solution 16**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230160 Evaluation to solution 15**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230470**.

**S3-230161 Evaluation to solution 16**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230471**.

**S3-230162 A new KI for security about EAS discovery procedure via V-EASDF**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230163 A new solution to security about EAS discovery procedure via V-EASDF**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230472**.

**S3-230164 Conclusion on KI1.x Security about EAS discovery procedure via V-EASDF**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230192 Address an EN in Sol #11**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

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

**S3-230202 Conclusion for KI 2.2 of EDGE Security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

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

**S3-230204 Resolving ENs in solution #9 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230495**.

**S3-230206 Resolving ENs in solution #10 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230505**.

**S3-230208 Resolving ENs in solution #11 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230508**.

**S3-230210 Address an EN in Sol #9 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230509**.

**S3-230211 Address an EN in Sol #10 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230511**.

**S3-230213 Address some ENs in Sol #11 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

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

**S3-230214 Add evaluation in Sol#11 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230512**.

**S3-230224 A new solution for EEC authentication utilizing tokens**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230484**.

**S3-230225 Updating solution #17**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

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

**S3-230226 Resolving ENs in solution#13**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

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

**S3-230227 Resolving ENs in solution#14**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

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

**S3-230228 Conclusion for KI#2.1**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

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

**S3-230229 Conclusion for KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

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

**S3-230287 Resolving the ENs in solution #22**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-230440**.

**S3-230288 Providing evaluation for solution #22**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230289 Common authentication method between EEC and ECS/EES**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Qualcomm Incorporated*

(Replaces S3-223363)

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

**S3-230307 MEC - New key issue on secure retrieve of UE ID**

*Type: pCR For: Approval  
 33.739 v0.3.0  
 Source: Apple*

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

**S3-230308 MEC - Discussion paper on enformcement of AF specific identifier**

*Type: discussion For: Endorsement  
 33.739 v..  
 Source: Apple*

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

**S3-230309 MEC - LS to SA2 on enforcement of AF specific identifier**

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

**Decision:** The document was **revised to S3-230462**.

**S3-230329 Resolving EN in solution#3 (TR 33.739)**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230538**.

**S3-230330 Resolving EN and updating evaluation in solution#4 (TR 33.739)**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230539**.

**S3-230331 Solution on Public key signature based authentication**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230540**.

**S3-230332 Evaluation for solution#22**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

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

**S3-230333 Conclusion for KI#2.1**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

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

**S3-230334 Conclusion for KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230541**.

**S3-230377 Conclusion for KI 2.1 Authentication and authorization of the EEC UE by the ECS EES.**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230378 Conclusion for KI 2.2 Authentication mechanism selection between EEC and ECSEES**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230379 TR 33.379 Evaluation for Sol #5**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230380 TR 33.379 Resolve ENs for sol #1 and #2**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230381 TR 33.379 Resolve ENs for Sol #5**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230440 Resolving the ENs in solution #22**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Qualcomm Incorporated*

(Replaces S3-230287)

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

**S3-230462 MEC - LS to SA2 on enforcement of AF specific identifier**

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

(Replaces S3-230309)

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

**S3-230470 Evaluation to solution 15**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230160)

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

**S3-230471 Evaluation to solution 16**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230161)

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

**S3-230472 A new solution to security about EAS discovery procedure via V-EASDF**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230163)

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

**S3-230484 A new solution for EEC authentication utilizing tokens**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Ericsson*

(Replaces S3-230224)

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

**S3-230489 Add evaluation to solution #6**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: ZTE Corporation*

(Replaces S3-230115)

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

**S3-230495 Resolving ENs in solution #9 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

(Replaces S3-230204)

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

**S3-230505 Resolving ENs in solution #10 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

(Replaces S3-230206)

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

**S3-230508 Resolving ENs in solution #11 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

(Replaces S3-230208)

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

**S3-230509 Address an EN in Sol #9 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

(Replaces S3-230210)

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

**S3-230511 Address an EN in Sol #10 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

(Replaces S3-230211)

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

**S3-230512 Add evaluation in Sol#11 of EDGE security**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: OPPO*

(Replaces S3-230214)

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

**S3-230538 Resolving EN in solution#3 (TR 33.739)**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

(Replaces S3-230329)

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

**S3-230539 Resolving EN and updating evaluation in solution#4 (TR 33.739)**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

(Replaces S3-230330)

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

**S3-230540 Solution on Public key signature based authentication**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

(Replaces S3-230331)

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

**S3-230541 Conclusion for KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Samsung*

(Replaces S3-230334)

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

**S3-230571 Conclusion on KI#2.1**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon, Thales*

(Replaces S3-230097)

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

**S3-230572 Conclusion on KI#2.6**

*Type: pCR For: Approval  
 33.739 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230099)

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

**S3-230573 Draft TR 33.739 v0.5.0**

*Type: draft TR For: Approval  
 33.739 v0.5.0  
 Source: Huawei, HiSilicon*

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

### 5.10 Study on Personal IoT Networks Security Aspects

**S3-230042 New solution for PINE authentiation with information provided by PEMC**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

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

**S3-230043 New solution for conditional PINE authorization by PEMC**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

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

**S3-230044 New solution for PINE authentiation over 5G UP**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

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

**S3-230045 Update solution for PINE authentication and authorization over 5G CP**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

**Decision:** The document was **revised to S3-230482**.

**S3-230046 Evaluation on Sol#6**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

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

**S3-230047 Interim conclusions on KI#1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

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

**S3-230079 KI#1 New Sol for local PINE authentication**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230116 Add conclusion for KI#1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230117 Add conclusion for KI#2**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230118 Add evaluation for solution#4**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: ZTE Corporation*

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

**S3-230157 Addressing the editor's note in solution 1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230469**.

**S3-230201 Propose conclusion to KI#1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230269 PIN - Evaluation Solution #4**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Philips International B.V.*

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

**S3-230305 Resolution of EN#1 in Solution#7 for KI#1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230306 Resolution of EN#2 in Solution#7 for KI#1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230385 TR 33.882 Resolve ENs for sol #5**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-230531**.

**S3-230386 KI #2, new Sol on AF authorization in PIN scenarios**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Xiaomi communications*

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

**S3-230469 Addressing the editor's note in solution 1**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230157)

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

**S3-230482 Update solution for PINE authentication and authorization over 5G CP**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: vivo*

(Replaces S3-230045)

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

**S3-230529 TR 33.882 v0.5.0**

*Type: draft TR For: Approval  
 33.882 v0.5.0  
 Source: vivo Mobile Communication (S)*

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

**S3-230531 TR 33.882 Resolve ENs for sol #5**

*Type: pCR For: Approval  
 33.882 v0.4.0  
 Source: Xiaomi communications*

(Replaces S3-230385)

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

### 5.11 Study on SNAAPP security

**S3-230069 Update to Solution #4 in SNAAPPY**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230451**.

**S3-230070 Solution to address KI#2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230452**.

**S3-230071 Conclusion to KI#1 in SNAAPPY**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Lenovo*

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

**S3-230072 Conclusion to KI#2 in SNAAPPY**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Lenovo*

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

**S3-230074 Sol#3 Resolution of EN on root certificate provisioning**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230075 Sol#3 Resolution of EN on cross UE API access**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230076 Sol#3 Resolution of EN on Uastar protocol**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230077 Sol#3 Resolution of EN on Mutual Authentication**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230520**.

**S3-230078 Sol#3 Resolution of EN on Client Credential Grant**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230522**.

**S3-230172 Address EN for solution 1: onboarding**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230475**.

**S3-230173 Address EN for solution 1: detail for token**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-230174 Address EN for solution 1: authorization decision**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230476**.

**S3-230175 Evaluation Update on Solution 1**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230477**.

**S3-230176 New Solution on OAuth2.0 Token Revocation**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-230177 Role mapping from TR 23.700-95**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-230178 Conclusion for key issue #2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-230230 A solution for authorization before allowing access to resources**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230486**.

**S3-230337 Update of Key Issue #2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230543**.

**S3-230338 New Solution on Resource owner Authorization in API Invocation using OAuth 2.0 Authorization Code Grant**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230544**.

**S3-230339 New Solution on Resource owner Authorization in API Invocation**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230545**.

**S3-230389 KI#2, New Sol OAuth 2.0 based API invocation procedure**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-230534**.

**S3-230390 KI#2, New Sol on User authorization revocation for API invocation procedure**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Xiaomi communications*

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

**S3-230391 KI#2, New Sol UE credential based API invocation procedure**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-230535**.

**S3-230421 pCR to 33.884 updating solution #2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-230515**.

**S3-230422 pCR to 33.884 adding new solution: PKCE flow**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-230517**.

**S3-230423 pCR to 33.884 adding new solution: token validation**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-230518**.

**S3-230451 Update to Solution #4 in SNAAPPY**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Lenovo*

(Replaces S3-230069)

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

**S3-230452 Solution to address KI#2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Lenovo*

(Replaces S3-230070)

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

**S3-230475 Address EN for solution 1: onboarding**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230172)

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

**S3-230476 Address EN for solution 1: authorization decision**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230174)

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

**S3-230477 Evaluation Update on Solution 1**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230175)

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

**S3-230486 A solution for authorization before allowing access to resources**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Ericsson*

(Replaces S3-230230)

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

**S3-230515 pCR to 33.884 updating solution #2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-230421)

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

**S3-230517 pCR to 33.884 adding new solution: PKCE flow**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-230422)

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

**S3-230518 pCR to 33.884 adding new solution: token validation**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-230423)

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

**S3-230519 draft TR 33.884**

*Type: draft TR For: Approval  
 33.884 v0.4.0  
 Source: NTT DOCOMO INC.*

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

**S3-230520 Sol#3 Resolution of EN on Mutual Authentication**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230077)

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

**S3-230522 Sol#3 Resolution of EN on Client Credential Grant**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230078)

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

**S3-230534 KI#2, New Sol OAuth 2.0 based API invocation procedure**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Xiaomi communications*

(Replaces S3-230389)

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

**S3-230535 KI#2, New Sol UE credential based API invocation procedure**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Xiaomi communications*

(Replaces S3-230391)

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

**S3-230543 Update of Key Issue #2**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Samsung*

(Replaces S3-230337)

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

**S3-230544 New Solution on Resource owner Authorization in API Invocation using OAuth 2.0 Authorization Code Grant**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Samsung*

(Replaces S3-230338)

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

**S3-230545 New Solution on Resource owner Authorization in API Invocation**

*Type: pCR For: Approval  
 33.884 v0.3.0  
 Source: Samsung*

(Replaces S3-230339)

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

### 5.12 Study on enhanced security for network slicing Phase 3

**S3-230061 Update to KI#1 Providing VPLMN slice information to roaming UE**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Lenovo*

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

**S3-230062 Solution to KI#1 eNS**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Lenovo*

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

**S3-230085 Discussion on KI#1**

*Type: discussion For: Endorsement  
 33.886 v..  
 Source: Huawei, HiSilicon*

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

**S3-230086 KI#1 update**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-230087 Update to KI#3**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-230088 New solution to KI#1**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-230089 New key issue on SoR AF**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-230090 New solution to prevent S-NSSAI leakage**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-230119 New solution to KI#1 protecting SoR container from UDM to UE**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: ZTE Corporation*

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

**S3-230120 New solution to KI#1 protecting UE assistance information**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: ZTE Corporation*

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

**S3-230121 Update to KI#1 providing VPLMN slice information to roaming UE**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: ZTE Corporation*

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

**S3-230249 update to KI#2 temporary network slice**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230250 solution for KI#2 temporary network slice for NSSAA**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230251 update to KI#3 network slice admission control**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230252 security solution for KI#3 network slice admission control**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230276 Key Issue #1**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: THALES*

**Abstract:**

This contribution addresses Key Issue #1.

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

**S3-230387 KI #2 update for partly allowed rejected S-NSSAI**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Xiaomi communications*

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

**S3-230388 New Sol on authorization mechanism for partly rejected S-NSSAI**

*Type: pCR For: Approval  
 33.886 v0.2.0  
 Source: Xiaomi communications*

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

**S3-230465 Draft TR 33.886 for eNS3**

*Type: draft TR For: (not specified)  
 33.886 v0.3.0  
 Source: Huawei, HiSilicon*

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

### 5.13 Study on Security aspects for 5WWC Phase 2

**S3-230048 Draft New WID on Security aspect of 5WWC**

*Type: WID new For: Information  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230049 Scope section alignment**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230050 updating the existing solution mapping**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230051 TNAP mobility architecture assumptions**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230052 new solution for AUN3 device supporting 5G Key hierarchy (i.e. N5CW)**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs*

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

**S3-230053 update conclusion for KI1**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230054 solution 5 update**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo*

**Decision:** The document was **revised to S3-230426**.

**S3-230055 solution 6 update**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo*

**Decision:** The document was **revised to S3-230427**.

**S3-230063 Evaluation to Solution #8**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230446**.

**S3-230193 A new solution on KI#4**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230480**.

**S3-230194 Proposed new threat and requirement to KI#3**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-230195 New solution to KI#3**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-230196 conclusion to KI#3**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230481**.

**S3-230285 Resolving the editor’s note in solution #7**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-230439**.

**S3-230286 Evaluation of solution #7**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230416 Key issue on authentication of N5CW devices behind RG**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: CableLabs, Nokia, Nokia Shanghai Bell, Rogers Communications*

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

**S3-230417 Key issue on authentication of UE behind RG**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: CableLabs, Rogers Communications*

**Decision:** The document was **revised to S3-230526**.

**S3-230418 Solution for authentication of UE behind RG using NSWO**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: CableLabs, Rogers Communications*

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

**S3-230419 Key issue on authentication of AUN3 device without 5G credentials**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: CableLabs*

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

**S3-230424 Solution for authentication of AUN3 device without 5G Creden**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: CableLabs*

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

**S3-230425 Draft 33.887 Study on Security aspects for 5WWC Phase 2**

*Type: draft TR For: Agreement  
 33.887 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230426 solution 5 update**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo*

(Replaces S3-230054)

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

**S3-230427 solution 6 update**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo*

(Replaces S3-230055)

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

**S3-230439 Resolving the editor’s note in solution #7**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Qualcomm Incorporated*

(Replaces S3-230285)

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

**S3-230446 Evaluation to Solution #8**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Lenovo*

(Replaces S3-230063)

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

**S3-230480 A new solution on KI#4**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230193)

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

**S3-230481 conclusion to KI#3**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230196)

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

**S3-230526 Key issue on authentication of UE behind RG**

*Type: pCR For: Approval  
 33.887 v0.4.0  
 Source: CableLabs, Rogers Communications, Charter Communications*

(Replaces S3-230417)

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

### 5.14 Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN

**S3-230409 New Key issue on the security of the information transfer of the RAN AI/ML framework**

*Type: pCR For: Approval  
 33.877 v0.4.0  
 Source: Ericsson*

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

**S3-230410 KI2 conclusion**

*Type: pCR For: Approval  
 33.877 v0.4.0  
 Source: Ericsson*

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

**S3-230575 Draft TR 33.877 v0.5.0 Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN**

*Type: draft TR For: Approval  
 33.877 v0.5.0  
 Source: Ericsson España S.A.*

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

### 5.15 Study on security support for Next Generation Real Time Communication services

**S3-230092 address EN for solution#2**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230093 Adding conclusion on KI#1**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230094 Adding conclusion on KI#3**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230095 address EN for solution#4**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230569**.

**S3-230096 Adding conclusion on KI#2**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230290 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230412 Resolve\_EN\_solution#5**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230568**.

**S3-230413 Resolve\_ENs\_solution#1**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Ericsson*

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

**S3-230568 Resolve\_EN\_solution#5**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Ericsson*

(Replaces S3-230412)

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

**S3-230569 address EN for solution#4**

*Type: pCR For: Approval  
 33.890 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230095)

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

**S3-230570 Draft TR 33.390 v0.5.0**

*Type: draft TR For: Approval  
 33.890 v0.5.0  
 Source: Huawei, HiSilicon*

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

### 5.16 Study on security aspects of enhanced support of Non-Public Networks phase 2

**S3-230036 Key issue on SN Name binding for Kausf in SNPN using AAA server for primary authentication**

*Type: pCR For: (not specified)  
 33.858 v0.3.0  
 Source: InterDigital Communications*

**Abstract:**

Resubmit Tdoc that was not handled in the last meeting

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

**S3-230073 Solution to Key Issue #2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230453**.

**S3-230083 Removal of EN in Solution#7**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Lenovo*

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

**S3-230122 Add a new solution to KI#2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-230490**.

**S3-230190 Add Usecases to Solution 10**

*Type: pCR For: (not specified)  
 33.858 v0.3.0  
 Source: Intel*

**Decision:** The document was **revised to S3-230523**.

**S3-230205 Conclusion for KI#2**

*Type: pCR For: (not specified)  
 33.858 v0.3.0  
 Source: Intel*

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

**S3-230231 Conclusions for KI#1**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230429**.

**S3-230232 Solution to KI#1 – NSWO in SNPN with CH AUSF/UDM**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230431**.

**S3-230233 Evaluation of Solution#9 – NSWO in SNPN**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230432**.

**S3-230245 Update of Solution #11: Resolving Editor's Note on scenarios in SA2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230444**.

**S3-230246 Update of Solution #11: Resolving Editor's Note in the evaluation**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

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

**S3-230247 Conclusion for KI#2 "Authentication for UE access to hosting network"**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230445**.

**S3-230248 New WID on Security aspects of enhanced support of Non-Public Networks phase 2**

*Type: WID new For: Discussion  
 Source: Ericsson*

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

**S3-230304 Solution to KI#1 – NSWO in SNPN with CH AAA**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-230521**.

**S3-230318 Evaluation of solution #5**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230319 Evaluation of solution #12**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230460**.

**S3-230320 Evaluation of solution #13**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230461**.

**S3-230321 Proposal for a conclusion on KI#1**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230322 Proposal for a conclusion on KI#2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230323 Discussion paper concerning conclusion of KI#1**

*Type: pCR For: Discussion  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230324 Discussion paper concerning conclusion of KI#2**

*Type: pCR For: Discussion  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230382 TR 33.858 Evaluation for Sol #1**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Xiaomi communications*

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

**S3-230383 TR 33.858 Evaluation for Sol #2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Xiaomi communications*

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

**S3-230384 TR 33.858 Evaluation for Sol #4**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Xiaomi communications*

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

**S3-230429 Conclusions for KI#1**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces S3-230231)

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

**S3-230431 Solution to KI#1 – NSWO in SNPN with CH AUSF/UDM**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

(Replaces S3-230232)

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

**S3-230432 Evaluation of Solution#9 – NSWO in SNPN**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

(Replaces S3-230233)

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

**S3-230444 Update of Solution #11: Resolving Editor's Note on scenarios in SA2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson*

(Replaces S3-230245)

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

**S3-230445 Conclusion for KI#2 "Authentication for UE access to hosting network"**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Ericsson, Intel, Nokia, Nokia Shanghai Bell*

(Replaces S3-230247)

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

**S3-230453 Solution to Key Issue #2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Lenovo*

(Replaces S3-230073)

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

**S3-230460 Evaluation of solution #12**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230319)

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

**S3-230461 Evaluation of solution #13**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230320)

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

**S3-230483 Draft TR 33.858 v0.4.0**

*Type: draft TR For: Approval  
 33.858 v0.4.0  
 Source: Ericsson*

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

**S3-230490 Add a new solution to KI#2**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: ZTE Corporation*

(Replaces S3-230122)

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

**S3-230521 Solution to KI#1 – NSWO in SNPN with CH AAA**

*Type: pCR For: Approval  
 33.858 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-230304)

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

**S3-230523 Add Usecases to Solution 10**

*Type: pCR For: (not specified)  
 33.858 v0.3.0  
 Source: Intel*

(Replaces S3-230190)

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

### 5.17 Study on Security of Phase 2 for UAS, UAV and UAM

**S3-230024 Conclusion TR 33.891 KI #1**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: InterDigital, Europe, Ltd.*

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

**S3-230025 Update conclusion TR 33.891 KI #3**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-230433**.

**S3-230026 Update conclusion TR 33.891 KI #4.**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: InterDigital, Europe, Ltd.*

**Decision:** The document was **revised to S3-230434**.

**S3-230027 LS on support for Restricted ProSe Direct Discovery for UAS**

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

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

**S3-230066 Conclusion to KI#1 Direct C2 Security**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230449**.

**S3-230067 Conclusion to KI#2 Security of DAA unicast connection**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Lenovo*

**Decision:** The document was **revised to S3-230450**.

**S3-230068 Conclusion to KI#3 Direct C2 Authorization**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Lenovo*

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

**S3-230180 Add conclusion to KI#2 about DAA unicast security**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230181 Add conclusion to KI#1 about Direct C2 security**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230277 Resolve EN on discovery in solution #3**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230278 Resolve EN on pairing in solution #3**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230279 Evaluation of solution #3**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230280 Editorial changes to UAS TR**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230281 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230282 Conclusion for key issue #2**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230283 Additional to conclusion for key issue #3**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230284 Conclusion for key issue #7**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230433 Update conclusion TR 33.891 KI #3**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: InterDigital, Europe, Ltd., Lenovo, Qualcomm*

(Replaces S3-230025)

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

**S3-230434 Update conclusion TR 33.891 KI #4.**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-230026)

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

**S3-230441 Draft TR 33.891**

*Type: draft TR For: Approval  
 33.891 v0.5.0  
 Source: Qualcomm*

(Replaces S3-224112)

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

**S3-230449 Conclusion to KI#1 Direct C2 Security**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Lenovo, Qualcomm, Huawei, Interdigital*

(Replaces S3-230066)

**Abstract:**

This contribution includes merger of S3-230024 (Interdigital), S3-230066 (Lenovo), S3-230181 (Huawei), S3-230281 (Qualcomm).

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

**S3-230450 Conclusion to KI#2 Security of DAA unicast connection**

*Type: pCR For: Approval  
 33.891 v0.4.0  
 Source: Lenovo, Huawei, Qualcomm*

(Replaces S3-230067)

**Abstract:**

This contribution merges S3-230180 (Huawei), S3-230282 (Qualcomm) in S3-230067 (Lenovo).

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

### 5.18 Study to enable URSP rules to securely identify Applications

### 5.19 Study on Security Aspects of Ranging Based Services and Sidelink Positioning

**S3-230038 New Key issue for Monitoring and detecting attacks on ranging devices and services**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230125 New KI on security of ranging usiong assistance UE**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: OPPO*

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

**S3-230154 update to solution 3**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230467**.

**S3-230155 update the evaluation in solution 1**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230468**.

**S3-230156 conclusion on key issue 1**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230182 New solution of security for the Ranging SL positioning device discovery**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230183 New solution for protecting direct communnication**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230184 New solution to select assistant ranging procedure based on privacy requirement**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230236 Update to solution#6 in TR 33.893 - add authorization check step**

*Type: pCR For: (not specified)  
 33.893 v0.4.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-230238 Update to solution#6 in TR 33.893 - SLPK ID usage**

*Type: pCR For: (not specified)  
 33.893 v0.4.0  
 Source: China Telecom Corporation Ltd.*

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

**S3-230259 New solution with authorization tokens exchanged after PC5 security establishment**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230502**.

**S3-230260 Update of evaluation to solution #2**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230503**.

**S3-230261 Update of evaluation to solution #3**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230504**.

**S3-230272 Ranging - New solution KI#1, #2, #3**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Philips International B.V.*

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

**S3-230273 Ranging - Update Key Issue #1- privacy risks of exposing positioning reference signals**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Philips International B.V.*

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

**S3-230299 reply LS on SL positioning groupcast and broadcast**

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

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

**S3-230300 Updates to the Key Issue #4**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-230527**.

**S3-230301 A new solution for groupcast protection for Ranging/SL Positioning services**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230353 pCR to TR33.893 New key issue on groupcast and broadcast security**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: CATT*

**Decision:** The document was **revised to S3-230566**.

**S3-230354 pCR to TR33.893 New solution for protecting groupcast and broadcast data in coverage**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: CATT*

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

**S3-230355 pCR to TR33.893 New solution for protecting groupcast and broadcast data in out of coverage**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: CATT*

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

**S3-230357 [Draft] Reply LS on SL positioning groupcast and broadcast**

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

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

**S3-230358 33.893: Additional Evaluation for Solution #1**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230359 33.893: Update to Solution #2**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-230559**.

**S3-230360 33.893: Resolve the Editor’s Note in Solution #4**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230361 33.893: Evaluation for Solution #4**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-230560**.

**S3-230362 33.893: Evaluation for Solution #6**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-230562**.

**S3-230363 33.893: Resolve the Editor’s Note in Solution #7**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230364 33.893: New Solution on Token-based Authorization of the Role of the UE during Discovery**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230365 33.893: New Solution on Role Verification during Discovery based on Discovery Keys**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230366 33.893: New Solution on Authorization of SL Positioning Client UE for Obtaining Ranging Result**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-230561**.

**S3-230403 New solution on Ranging/SL Positioning discovery and link establishment procedure for V2X capable UEs**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230404 Remove the Editor's Note of solution #3 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230405 Remove the Editor's Note of solution #5 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-230555**.

**S3-230467 update to solution 3**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230154)

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

**S3-230468 update the evaluation in solution 1**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230155)

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

**S3-230502 New solution with authorization tokens exchanged after PC5 security establishment**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Ericsson*

(Replaces S3-230259)

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

**S3-230503 Update of evaluation to solution #2**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Ericsson*

(Replaces S3-230260)

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

**S3-230504 Update of evaluation to solution #3**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Ericsson*

(Replaces S3-230261)

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

**S3-230527 Updates to the Key Issue #4**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Qualcomm Incorporated*

(Replaces S3-230300)

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

**S3-230555 Remove the Editor's Note of solution #5 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-230405)

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

**S3-230559 33.893: Update to Solution #2**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

(Replaces S3-230359)

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

**S3-230560 33.893: Evaluation for Solution #4**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

(Replaces S3-230361)

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

**S3-230561 33.893: New Solution on Authorization of SL Positioning Client UE for Obtaining Ranging Result**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

(Replaces S3-230366)

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

**S3-230562 33.893: Evaluation for Solution #6**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: Xiaomi Technology*

(Replaces S3-230362)

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

**S3-230564 draft TR 33.893 v0.5.0**

*Type: draft TR For: Approval  
 33.893 v0.5.0  
 Source: Xiaomi Technology*

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

**S3-230566 pCR to TR33.893 New key issue on groupcast and broadcast security**

*Type: pCR For: Approval  
 33.893 v0.4.0  
 Source: CATT, Xiaomi Technology*

(Replaces S3-230353)

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

### 5.20 Study on Security and Privacy of AI/ML-based Services and Applications in 5G

**S3-230034 New key issue on Federated Learning AIML model privacy protection**

*Type: pCR For: (not specified)  
 33.898 v0.3.0  
 Source: InterDigital Communications*

**Abstract:**

Resubmit Tdoc that was not handled in the last meeting.

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

**S3-230035 New key issue on Federated Learning AIML model protection**

*Type: pCR For: (not specified)  
 33.898 v0.3.0  
 Source: InterDigital Communications*

**Abstract:**

Resubmit Tdoc that was not handled in the last meeting

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

**S3-230124 LS on clarification on user consent for AIML**

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

**Decision:** The document was **revised to S3-230491**.

**S3-230217 New solution on reusing existing authorization mechanism for 5G assistance information exposure to AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

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

**S3-230218 New solution on authorization for 5GC assistance information exposure to external AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230513**.

**S3-230220 New solution on authorization for 5GC assistance information exposure to internal AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230514**.

**S3-230222 New solution on authorization for 5GC assistance information exposure to internal AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

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

**S3-230223 New solution on privacy protection for 5GC assistance information exposure to AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

**Decision:** The document was **revised to S3-230516**.

**S3-230372 KI #1, New Sol on OAuth 2.0 based 5GC assistance information exposure authorization**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: Xiaomi communications*

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

**S3-230373 TR 33.898 Resolve EN for sol #2**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: Xiaomi communications*

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

**S3-230491 LS on clarification on user consent for AIML**

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

(Replaces S3-230124)

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

**S3-230494 Draft TR 33.898 v0.4.0**

*Type: draft TR For: Approval  
 33.898 v0.4.0  
 Source: OPPO*

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

**S3-230513 New solution on authorization for 5GC assistance information exposure to external AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

(Replaces S3-230218)

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

**S3-230514 New solution on authorization for 5GC assistance information exposure to internal AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

(Replaces S3-230220)

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

**S3-230516 New solution on privacy protection for 5GC assistance information exposure to AF**

*Type: pCR For: Approval  
 33.898 v0.3.0  
 Source: OPPO*

(Replaces S3-230223)

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

### 5.21 Study on applicability of the Zero Trust Security principles in mobile networks

### 5.22 Study of Security aspects on User Consent for 3GPP Services Phase 2

**S3-230039 New key issue on enhancement of user consent for using MDT for NG-RAN AI/ML**

*Type: pCR For: (not specified)  
 33.896 v0.4.1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230084 33.896: Updates to Key Issue on User Consent for NTN**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Google Inc.*

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

**S3-230165 Key Issue Update on User Consent for NTN**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230473**.

**S3-230166 Implict User Consent for NTN feature usage**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230167 Conclusion for key issue #2**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230168 User consent for roaming scenarios where the data source is in vPLMN**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230169 User consent for roaming scenarios where the data source is in hPLMN**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230170 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230474**.

**S3-230171 Conclusion for key issue #4**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

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

**S3-230370 33.896: Evaluation for Solution #1**

*Type: pCR For: Approval  
 33.896 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230371 33.896: Evaluation for Solution #2**

*Type: pCR For: Approval  
 33.896 v0.4.0  
 Source: Xiaomi Technology*

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

**S3-230406 Remove the Editor's Note and evaluate the solution #3 in TR 33.896**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230407 Remove the Editor's Note and evaluate the solution #4 in TR 33.896**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230408 Conclusion on Key Issue #1 in TR 33.896**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-230414 KI and Solution on user consent in roaming**

*Type: pCR For: (not specified)  
 33.896 v0.4.1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230415 Sol update central authorization for user consent handling**

*Type: pCR For: (not specified)  
 33.896 v0.4.1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230473 Key Issue Update on User Consent for NTN**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon*

(Replaces S3-230165)

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

**S3-230474 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.896 v0.4.1  
 Source: Huawei, HiSilicon, Xiaomi*

(Replaces S3-230170)

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

**S3-230530 TR 33.896v050**

*Type: draft TR For: (not specified)  
 33.896 v0.5.0  
 Source: Huawei;HiSilicon*

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

### 5.23 Study on security enhancements for 5G multicast-broadcast services Phase 2

**S3-230041 TMGI protection during group Paging**

*Type: pCR For: (not specified)  
 33.883 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230149 A new solution to address the privacy issue with TMGI**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230150 conclusion on key issue 2**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230151 Addressing the editor's note in solution 3**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-230466**.

**S3-230152 Discussion paper on way forward of key issue#1**

*Type: discussion For: Endorsement  
 33.893 v..  
 Source: Huawei, HiSilicon*

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

**S3-230153 conclusion on key issue 1**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-230302 A new solution for mitigating privacy attacks exploiting group paging with TMGI**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Qualcomm Incorporated*

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

**S3-230335 Updates to solution#1 in TR 33.883**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-230542**.

**S3-230336 [MBS] Conclusion for Key Issue#1**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Samsung*

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

**S3-230464 Draft TR 33.883**

*Type: draft TR For: (not specified)  
 33.883 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-230466 Addressing the editor's note in solution 3**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-230151)

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

**S3-230542 Updates to solution#1 in TR 33.883**

*Type: pCR For: Approval  
 33.883 v0.4.0  
 Source: Samsung*

(Replaces S3-230335)

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

### 5.24 Study on enhanced Security Aspects of the 5G Service Based Architecture

**S3-230021 KI10 solution 25 update on security profiles**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: BSI (DE), Nokia, Nokia Shanghai Bell*

**Abstract:**

Proposes to replace “null” PRINS with “integrity-only” PRINS, as this more accurately reflects the solution.

**Decision:** The document was **revised to S3-230493**.

**S3-230022 KI10 update on RHUB**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: BSI (DE), Nokia, Nokia Shanghai Bell*

**Abstract:**

Removes inconsisteny in decription of roaming hub types, improves description of key issue.

**Decision:** The document was **revised to S3-230496**.

**S3-230023 KI12 solution 19 update on hosted SEPP**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: BSI (DE), Nokia, Nokia Shanghai Bell*

**Abstract:**

Improvement of solution description. More precise wordings for the proposed normative text that forms part of the solution. Also, added a requirement to support certificate pinning.

**Decision:** The document was **revised to S3-230507**.

**S3-230127 KI1 corrections**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230128 KI1 sol13 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230577**.

**S3-230129 KI1 analysis update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230578**.

**S3-230130 KI3 sol12 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230131 KI4 analysis and conclusion update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230579**.

**S3-230132 KI3 sol15 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230133 KI5 sol16 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230580**.

**S3-230134 KI6 conclusion update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230581**.

**S3-230135 KI7 Sol17 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230136 KI8 conclusion update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230582**.

**S3-230137 KI10 analysis and conclusion on RHUB**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell, BSI*

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

**S3-230138 KI10 sol20 EN resolution – reference to new study**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230139 KI11 resolution of ENs in sol21 and sol22 by adding the related solution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230140 KI12 sol19 EN resolution – reference to new study**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230141 KI12 Hosted SEPP solution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230583**.

**S3-230142 KI12 analysis and conclusion on hosted SEPP**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell, BSI*

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

**S3-230143 Study on 5G roaming topics**

*Type: pCR For: Endorsement  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-230576**.

**S3-230144 SID on 5G roaming issues**

*Type: SID new For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230313 New Solution to KI #11 based on Nnrf\_AccesToken Service**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Ericsson LM*

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

**S3-230314 New Solution to KI #11 based on O&M Provisioning NRF with NFc profile**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Ericsson LM*

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

**S3-230315 Discussion. Key issue #12: Security in Hosted SEPP scenarios**

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

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

**S3-230316 Update of Key issue #12: Security in Hosted SEPP scenarios**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-230585**.

**S3-230585 Update of Key issue #12: Security in Hosted SEPP scenarios**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Ericsson,Nokia, Nokia Shanghai Bell, Mavenir*

(Replaces S3-230316)

**Decision:** The document was **revised to S3-230588**.

**S3-230588 Update of Key issue #12: Security in Hosted SEPP scenarios**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Ericsson,Nokia, Nokia Shanghai Bell, Mavenir*

(Replaces S3-230585)

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

**S3-230317 Solution for KI#12: Security in Hosted SEPP scenarios**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Ericsson*

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

**S3-230428 TR 33.875-160**

*Type: draft TR For: (not specified)  
 33.875 v1.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230493 KI10 solution 25 update on security profiles**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: BSI (DE), Nokia, Nokia Shanghai Bell*

(Replaces S3-230021)

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

**S3-230496 KI10 update on RHUB**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: BSI (DE), Nokia, Nokia Shanghai Bell*

(Replaces S3-230022)

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

**S3-230507 KI12 solution 19 update on hosted SEPP**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: BSI (DE), Nokia, Nokia Shanghai Bell, Deutsche Telekom*

(Replaces S3-230023)

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

**S3-230576 Study on 5G roaming topics**

*Type: discussion For: Endorsement  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell, Deutsche Telekom*

(Replaces S3-230143)

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

**S3-230577 KI1 sol13 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230128)

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

**S3-230578 KI1 analysis update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230129)

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

**S3-230579 KI4 analysis and conclusion update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230131)

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

**S3-230580 KI5 sol16 EN resolution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230133)

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

**S3-230581 KI6 conclusion update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230134)

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

**S3-230582 KI8 conclusion update**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230136)

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

**S3-230583 KI12 Hosted SEPP solution**

*Type: pCR For: Approval  
 33.875 v1.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-230141)

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

### 5.25 Study on Security Aspects of Satellite Access

**S3-230019 Key Issue for NAS UE Registration Procedure**

*Type: pCR For: Approval  
 33.700-28 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230020 New Key Issue on Protection of 5GS SIB19**

*Type: pCR For: (not specified)  
 33.700-28 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-230367 33.700-28: Add Potential Requirements for Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.2.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-230563**.

**S3-230368 33.700-28: New Key Issue on Protection of UE Unreachability Period retrieved by the UE**

*Type: pCR For: Approval  
 33.700-28 v0.2.0  
 Source: Xiaomi Technology*

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

**S3-230369 33.700-28: New Solution to KI#1 for AF Authorization on per UE Level**

*Type: pCR For: Approval  
 33.700-28 v0.2.0  
 Source: Xiaomi Technology*

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

**S3-230563 33.700-28: Add Potential Requirements for Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.2.0  
 Source: Xiaomi Technology*

(Replaces S3-230367)

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

**S3-230565 draft TR 33.700-28 v0.3.0**

*Type: draft TR For: Approval  
 33.700-28 v0.3.0  
 Source: Xiaomi Technology*

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

## 6 New Study/Work item proposals

## 7 CVD and research

## 8 Any Other Business

**S3-230004 Report from SA#98 on SA3 topics**

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

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-230001 | Agenda | SA WG3 Chair | approved |  |  |
| S3-230002 | Process for SA3#109Adhoc-e | SA WG3 Chair | noted |  |  |
| S3-230003 | Process and agenda planning for SA3#109AdHoc-e | SA WG3 Chair | noted |  |  |
| S3-230004 | Report from SA#98 on SA3 topics | WG Chair | noted |  |  |
| S3-230005 | LS on U2N relay direct link setup failure due to RSC mismatch or integrity failure | C1-226908 | postponed |  |  |
| S3-230006 | Reply LS on the progress and open issues for NPN enhancements in Rel-18 | C1-227157 | noted |  |  |
| S3-230007 | LS on SL positioning groupcast and broadcast | R2-2213142 | replied to |  |  |
| S3-230008 | LS on user consent of Non-public Network | R3-226006 | postponed |  |  |
| S3-230009 | Reply LS on Progress and open issues for NPN enhancements in Rel-18 | S1-223540 | noted |  |  |
| S3-230010 | Reply LS on the impact of MSK update on MBS multicast session update procedure | S2-2209287 | postponed |  |  |
| S3-230011 | LS on impact of URSP rule enforcement report to 5GC | S2-2209327 | postponed |  |  |
| S3-230012 | Reply LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors | S2-2210943 | noted |  |  |
| S3-230013 | Slice based Steering of Roaming | S2-2211204 | noted |  |  |
| S3-230014 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-223487 | noted |  |  |
| S3-230015 | LS reply on SNAAPP requirements clarifications | S6-223488 | noted |  |  |
| S3-230016 | LS reply on CAPIF authorization roles related to FS\_SNAAPP | S6-223489 | noted |  |  |
| S3-230017 | LS on the use of a non-network defined identifier for UE identification | S6-223558 | postponed |  |  |
| S3-230018 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-223586 | replied to |  |  |
| S3-230019 | Key Issue for NAS UE Registration Procedure | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230020 | New Key Issue on Protection of 5GS SIB19 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230021 | KI10 solution 25 update on security profiles | BSI (DE), Nokia, Nokia Shanghai Bell | revised |  | S3-230493 |
| S3-230022 | KI10 update on RHUB | BSI (DE), Nokia, Nokia Shanghai Bell | revised |  | S3-230496 |
| S3-230023 | KI12 solution 19 update on hosted SEPP | BSI (DE), Nokia, Nokia Shanghai Bell | revised |  | S3-230507 |
| S3-230024 | Conclusion TR 33.891 KI #1 | InterDigital, Europe, Ltd. | merged |  | S3-230449 |
| S3-230025 | Update conclusion TR 33.891 KI #3 | InterDigital, Europe, Ltd. | revised |  | S3-230433 |
| S3-230026 | Update conclusion TR 33.891 KI #4. | InterDigital, Europe, Ltd. | revised |  | S3-230434 |
| S3-230027 | LS on support for Restricted ProSe Direct Discovery for UAS | InterDigital, Europe, Ltd. | noted |  |  |
| S3-230028 | Evaluation TR 33.740 Sol #1 | InterDigital, Europe, Ltd. | revised |  | S3-230435 |
| S3-230029 | Evaluation TR 33.740 Sol #12 | InterDigital, Europe, Ltd. | revised |  | S3-230436 |
| S3-230030 | Evaluation TR 33.740 Sol #13 | InterDigital, Europe, Ltd. | revised |  | S3-230437 |
| S3-230031 | Evaluation TR 33.740 Sol #14 | InterDigital, Europe, Ltd. | approved |  |  |
| S3-230032 | Update to TR 33.740 Conclusion for KI#2 | InterDigital, Europe, Ltd. | noted |  |  |
| S3-230033 | Update to TR 33.740 Conclusion for KI#4 | InterDigital, Europe, Ltd. | revised |  | S3-230438 |
| S3-230034 | New key issue on Federated Learning AIML model privacy protection | InterDigital Communications | noted |  |  |
| S3-230035 | New key issue on Federated Learning AIML model protection | InterDigital Communications | noted |  |  |
| S3-230036 | Key issue on SN Name binding for Kausf in SNPN using AAA server for primary authentication | InterDigital Communications | noted |  |  |
| S3-230037 | New Solution of authorization for EDGE-9 reference point | InterDigital Communications | revised |  | S3-230587 |
| S3-230038 | New Key issue for Monitoring and detecting attacks on ranging devices and services | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230039 | New key issue on enhancement of user consent for using MDT for NG-RAN AI/ML | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230040 | LS on MOCN TMGI ID impacting MSK, MTK | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230041 | TMGI protection during group Paging | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230042 | New solution for PINE authentiation with information provided by PEMC | vivo | noted |  |  |
| S3-230043 | New solution for conditional PINE authorization by PEMC | vivo | noted |  |  |
| S3-230044 | New solution for PINE authentiation over 5G UP | vivo | noted |  |  |
| S3-230045 | Update solution for PINE authentication and authorization over 5G CP | vivo | revised |  | S3-230482 |
| S3-230046 | Evaluation on Sol#6 | vivo | noted |  |  |
| S3-230047 | Interim conclusions on KI#1 | vivo | noted |  |  |
| S3-230048 | Draft New WID on Security aspect of 5WWC | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230049 | Scope section alignment | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230050 | updating the existing solution mapping | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230051 | TNAP mobility architecture assumptions | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230052 | new solution for AUN3 device supporting 5G Key hierarchy (i.e. N5CW) | Nokia, Nokia Shanghai Bell, CableLabs | approved |  |  |
| S3-230053 | update conclusion for KI1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230054 | solution 5 update | Nokia, Nokia Shanghai Bell, Lenovo | revised |  | S3-230426 |
| S3-230055 | solution 6 update | Nokia, Nokia Shanghai Bell, Lenovo | revised |  | S3-230427 |
| S3-230056 | Discussion on privacy issue in AKMA | Nokia, Nokia Shanghai Bell, Samsung | noted |  |  |
| S3-230057 | key issue on AKMA privacy | Nokia, Nokia Shanghai Bell, Samsung | noted |  |  |
| S3-230058 | conclusion updates | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230059 | Discussion paper for MPS support over WLAN and relationship with HNTRA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230060 | Conclusion enhancement for MPS support over WLAN | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230061 | Update to KI#1 Providing VPLMN slice information to roaming UE | Lenovo | noted |  |  |
| S3-230062 | Solution to KI#1 eNS | Lenovo | noted |  |  |
| S3-230063 | Evaluation to Solution #8 | Lenovo | revised |  | S3-230446 |
| S3-230064 | Update to Solution #9 in eNA | Lenovo | revised |  | S3-230447 |
| S3-230065 | Cyber attack detection | Lenovo | revised |  | S3-230448 |
| S3-230066 | Conclusion to KI#1 Direct C2 Security | Lenovo | revised |  | S3-230449 |
| S3-230067 | Conclusion to KI#2 Security of DAA unicast connection | Lenovo | revised |  | S3-230450 |
| S3-230068 | Conclusion to KI#3 Direct C2 Authorization | Lenovo | merged |  | S3-230433 |
| S3-230069 | Update to Solution #4 in SNAAPPY | Lenovo | revised |  | S3-230451 |
| S3-230070 | Solution to address KI#2 | Lenovo | revised |  | S3-230452 |
| S3-230071 | Conclusion to KI#1 in SNAAPPY | Lenovo | noted |  |  |
| S3-230072 | Conclusion to KI#2 in SNAAPPY | Lenovo | noted |  |  |
| S3-230073 | Solution to Key Issue #2 | Lenovo | revised |  | S3-230453 |
| S3-230074 | Sol#3 Resolution of EN on root certificate provisioning | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230075 | Sol#3 Resolution of EN on cross UE API access | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230076 | Sol#3 Resolution of EN on Uastar protocol | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230077 | Sol#3 Resolution of EN on Mutual Authentication | Nokia, Nokia Shanghai Bell | revised |  | S3-230520 |
| S3-230078 | Sol#3 Resolution of EN on Client Credential Grant | Nokia, Nokia Shanghai Bell | revised |  | S3-230522 |
| S3-230079 | KI#1 New Sol for local PINE authentication | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230080 | New solution addressing KI#6 | Lenovo, Nokia | noted |  |  |
| S3-230081 | Evaluation of Solution#4 | Lenovo | revised |  | S3-230574 |
| S3-230082 | Removal of EN in Solution#4 | Lenovo | approved |  |  |
| S3-230083 | Removal of EN in Solution#7 | Lenovo | noted |  |  |
| S3-230084 | 33.896: Updates to Key Issue on User Consent for NTN | Google Inc. | noted |  |  |
| S3-230085 | Discussion on KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-230086 | KI#1 update | Huawei, HiSilicon | noted |  |  |
| S3-230087 | Update to KI#3 | Huawei, HiSilicon | noted |  |  |
| S3-230088 | New solution to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-230089 | New key issue on SoR AF | Huawei, HiSilicon | noted |  |  |
| S3-230090 | New solution to prevent S-NSSAI leakage | Huawei, HiSilicon | noted |  |  |
| S3-230091 | Evaluation for solution#1 | China Telecommunications | revised |  | S3-230456 |
| S3-230092 | address EN for solution#2 | Huawei, HiSilicon | approved |  |  |
| S3-230093 | Adding conclusion on KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-230094 | Adding conclusion on KI#3 | Huawei, HiSilicon | approved |  |  |
| S3-230095 | address EN for solution#4 | Huawei, HiSilicon | revised |  | S3-230569 |
| S3-230096 | Adding conclusion on KI#2 | Huawei, HiSilicon | noted |  |  |
| S3-230097 | Conclusion on KI#2.1 | Huawei, HiSilicon, Thales | revised |  | S3-230571 |
| S3-230098 | Conclusion on KI#2.2 | Huawei, HiSilicon, Thales | merged |  | S3-230541 |
| S3-230099 | Conclusion on KI#2.6 | Huawei, HiSilicon | revised |  | S3-230572 |
| S3-230100 | Adding the overview of the EDGE | Huawei, HiSilicon | approved |  |  |
| S3-230101 | Resolving EN in solution#1 | China Telecommunications | approved |  |  |
| S3-230102 | New solution to KI#2 | China Telecommunications | revised |  | S3-230457 |
| S3-230103 | Update the KI#6 | ZTE Corporation | revised |  | S3-230485 |
| S3-230104 | New solution for the KI#6 | ZTE Corporation | noted |  |  |
| S3-230105 | Conclusion for the KI#6 | ZTE Corporation | noted |  |  |
| S3-230106 | Add editors note to solution 5 | ZTE Corporation | revised |  | S3-230487 |
| S3-230107 | Add editors note to solution 11 | ZTE Corporation | approved |  |  |
| S3-230108 | Address EN for solution 9 | ZTE Corporation | approved |  |  |
| S3-230109 | AUSF stores SN ID after primary authentication in solution 1 | ZTE Corporation | noted |  |  |
| S3-230110 | AUSF stores SN ID after primary authentication in solution 6 | ZTE Corporation | noted |  |  |
| S3-230111 | Conclusion for KI#1 | ZTE Corporation | noted |  |  |
| S3-230112 | update the Key issue of AKMA roaming | ZTE Corporation | approved |  |  |
| S3-230113 | Add conclusion to KI#1 | ZTE Corporation | noted |  |  |
| S3-230114 | Add conclusion to KI#2.2 | ZTE Corporation | merged |  | S3-230541 |
| S3-230115 | Add evaluation to solution #6 | ZTE Corporation | revised |  | S3-230489 |
| S3-230116 | Add conclusion for KI#1 | ZTE Corporation | noted |  |  |
| S3-230117 | Add conclusion for KI#2 | ZTE Corporation | noted |  |  |
| S3-230118 | Add evaluation for solution#4 | ZTE Corporation | noted |  |  |
| S3-230119 | New solution to KI#1 protecting SoR container from UDM to UE | ZTE Corporation | noted |  |  |
| S3-230120 | New solution to KI#1 protecting UE assistance information | ZTE Corporation | noted |  |  |
| S3-230121 | Update to KI#1 providing VPLMN slice information to roaming UE | ZTE Corporation | noted |  |  |
| S3-230122 | Add a new solution to KI#2 | ZTE Corporation | revised |  | S3-230490 |
| S3-230123 | New solution to KI#5 | China Telecommunications | revised |  | S3-230459 |
| S3-230124 | LS on clarification on user consent for AIML | OPPO | revised |  | S3-230491 |
| S3-230125 | New KI on security of ranging usiong assistance UE | OPPO | noted |  |  |
| S3-230126 | Resolving EN for Solution 22 | OPPO | revised |  | S3-230492 |
| S3-230127 | KI1 corrections | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230128 | KI1 sol13 EN resolution | Nokia, Nokia Shanghai Bell | revised |  | S3-230577 |
| S3-230129 | KI1 analysis update | Nokia, Nokia Shanghai Bell | revised |  | S3-230578 |
| S3-230130 | KI3 sol12 EN resolution | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230131 | KI4 analysis and conclusion update | Nokia, Nokia Shanghai Bell | revised |  | S3-230579 |
| S3-230132 | KI3 sol15 EN resolution | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230133 | KI5 sol16 EN resolution | Nokia, Nokia Shanghai Bell | revised |  | S3-230580 |
| S3-230134 | KI6 conclusion update | Nokia, Nokia Shanghai Bell | revised |  | S3-230581 |
| S3-230135 | KI7 Sol17 EN resolution | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230136 | KI8 conclusion update | Nokia, Nokia Shanghai Bell | revised |  | S3-230582 |
| S3-230137 | KI10 analysis and conclusion on RHUB | Nokia, Nokia Shanghai Bell, BSI | approved |  |  |
| S3-230138 | KI10 sol20 EN resolution – reference to new study | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230139 | KI11 resolution of ENs in sol21 and sol22 by adding the related solution | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230140 | KI12 sol19 EN resolution – reference to new study | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230141 | KI12 Hosted SEPP solution | Nokia, Nokia Shanghai Bell | revised |  | S3-230583 |
| S3-230142 | KI12 analysis and conclusion on hosted SEPP | Nokia, Nokia Shanghai Bell, BSI | approved |  |  |
| S3-230143 | Study on 5G roaming topics | Nokia, Nokia Shanghai Bell | revised |  | S3-230576 |
| S3-230144 | SID on 5G roaming issues | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230145 | Minor editorial corrections in Solution #5 | LG Electronics | approved |  |  |
| S3-230146 | Minor editorial corrections in Solution #12 | LG Electronics | approved |  |  |
| S3-230147 | Evaluation for Solution #5 | LG Electronics | approved |  |  |
| S3-230148 | Evaluation for Solution #12 | LG Electronics | approved |  |  |
| S3-230149 | A new solution to address the privacy issue with TMGI | Huawei, HiSilicon | noted |  |  |
| S3-230150 | conclusion on key issue 2 | Huawei, HiSilicon | noted |  |  |
| S3-230151 | Addressing the editor's note in solution 3 | Huawei, HiSilicon | revised |  | S3-230466 |
| S3-230152 | Discussion paper on way forward of key issue#1 | Huawei, HiSilicon | noted |  |  |
| S3-230153 | conclusion on key issue 1 | Huawei, HiSilicon | noted |  |  |
| S3-230154 | update to solution 3 | Huawei, HiSilicon | revised |  | S3-230467 |
| S3-230155 | update the evaluation in solution 1 | Huawei, HiSilicon | revised |  | S3-230468 |
| S3-230156 | conclusion on key issue 1 | Huawei, HiSilicon | noted |  |  |
| S3-230157 | Addressing the editor's note in solution 1 | Huawei, HiSilicon | revised |  | S3-230469 |
| S3-230158 | Addressing the ENs in solution 15 | Huawei, HiSilicon | approved |  |  |
| S3-230159 | Addressing the ENs in solution 16 | Huawei, HiSilicon | approved |  |  |
| S3-230160 | Evaluation to solution 15 | Huawei, HiSilicon | revised |  | S3-230470 |
| S3-230161 | Evaluation to solution 16 | Huawei, HiSilicon | revised |  | S3-230471 |
| S3-230162 | A new KI for security about EAS discovery procedure via V-EASDF | Huawei, HiSilicon | approved |  |  |
| S3-230163 | A new solution to security about EAS discovery procedure via V-EASDF | Huawei, HiSilicon | revised |  | S3-230472 |
| S3-230164 | Conclusion on KI1.x Security about EAS discovery procedure via V-EASDF | Huawei, HiSilicon | noted |  |  |
| S3-230165 | Key Issue Update on User Consent for NTN | Huawei, HiSilicon | revised |  | S3-230473 |
| S3-230166 | Implict User Consent for NTN feature usage | Huawei, HiSilicon | noted |  |  |
| S3-230167 | Conclusion for key issue #2 | Huawei, HiSilicon | noted |  |  |
| S3-230168 | User consent for roaming scenarios where the data source is in vPLMN | Huawei, HiSilicon | noted |  |  |
| S3-230169 | User consent for roaming scenarios where the data source is in hPLMN | Huawei, HiSilicon | noted |  |  |
| S3-230170 | Conclusion for key issue #1 | Huawei, HiSilicon | revised |  | S3-230474 |
| S3-230171 | Conclusion for key issue #4 | Huawei, HiSilicon | noted |  |  |
| S3-230172 | Address EN for solution 1: onboarding | Huawei, HiSilicon | revised |  | S3-230475 |
| S3-230173 | Address EN for solution 1: detail for token | Huawei, HiSilicon | noted |  |  |
| S3-230174 | Address EN for solution 1: authorization decision | Huawei, HiSilicon | revised |  | S3-230476 |
| S3-230175 | Evaluation Update on Solution 1 | Huawei, HiSilicon | revised |  | S3-230477 |
| S3-230176 | New Solution on OAuth2.0 Token Revocation | Huawei, HiSilicon | noted |  |  |
| S3-230177 | Role mapping from TR 23.700-95 | Huawei, HiSilicon | noted |  |  |
| S3-230178 | Conclusion for key issue #2 | Huawei, HiSilicon | noted |  |  |
| S3-230179 | new pcr | Huawei, HiSilicon | withdrawn |  |  |
| S3-230180 | Add conclusion to KI#2 about DAA unicast security | Huawei, HiSilicon | merged |  | S3-230450 |
| S3-230181 | Add conclusion to KI#1 about Direct C2 security | Huawei, HiSilicon | merged |  | S3-230449 |
| S3-230182 | New solution of security for the Ranging SL positioning device discovery | Huawei, HiSilicon | noted |  |  |
| S3-230183 | New solution for protecting direct communnication | Huawei, HiSilicon | noted |  |  |
| S3-230184 | New solution to select assistant ranging procedure based on privacy requirement | Huawei, HiSilicon | noted |  |  |
| S3-230185 | Address EN for So#l26 | Huawei, HiSilicon | revised |  | S3-230478 |
| S3-230186 | Evaluate to the solution #20 | Huawei, HiSilicon | revised |  | S3-230479 |
| S3-230187 | Evaluate to the solution #26 | Huawei, HiSilicon | noted |  |  |
| S3-230188 | conclude to KI #2 | Huawei, HiSilicon | noted |  |  |
| S3-230189 | Conclusion for KI#2 | Intel | noted |  |  |
| S3-230190 | Add Usecases to Solution 10 | Intel | revised |  | S3-230523 |
| S3-230191 | Add Evaluation for ProSe Security Sol#6 | OPPO | noted |  |  |
| S3-230192 | Address an EN in Sol #11 | OPPO | approved |  |  |
| S3-230193 | A new solution on KI#4 | Huawei, HiSilicon | revised |  | S3-230480 |
| S3-230194 | Proposed new threat and requirement to KI#3 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230195 | New solution to KI#3 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230196 | conclusion to KI#3 | Huawei, HiSilicon | revised |  | S3-230481 |
| S3-230197 | add new conclusion to key issue#1 | Huawei, HiSilicon | noted |  |  |
| S3-230198 | Delete EN in solution#4 | Huawei, HiSilicon | approved |  |  |
| S3-230199 | Delete EN in solution#9 | Huawei, HiSilicon | approved |  |  |
| S3-230200 | Delete EN in solution#12 | Huawei, HiSilicon | noted |  |  |
| S3-230201 | Propose conclusion to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-230202 | Conclusion for KI 2.2 of EDGE Security | OPPO | merged |  | S3-230541 |
| S3-230203 | Conclusion for KI#3 | Intel | merged |  | S3-230510 |
| S3-230204 | Resolving ENs in solution #9 of EDGE security | OPPO | revised |  | S3-230495 |
| S3-230205 | Conclusion for KI#2 | Intel | merged |  | S3-230445 |
| S3-230206 | Resolving ENs in solution #10 of EDGE security | OPPO | revised |  | S3-230505 |
| S3-230207 | evaluation of TR33.740 Solution 8 | China Telecom Corporation Ltd. | noted |  |  |
| S3-230208 | Resolving ENs in solution #11 of EDGE security | OPPO | revised |  | S3-230508 |
| S3-230209 | FL GROUP AUTHORIZATION OF NWDAF(S) IN 5GC | Intel | revised |  | S3-230524 |
| S3-230210 | Address an EN in Sol #9 of EDGE security | OPPO | revised |  | S3-230509 |
| S3-230211 | Address an EN in Sol #10 of EDGE security | OPPO | revised |  | S3-230511 |
| S3-230212 | evaluation of TR33.740 Solution 11 | China Telecom Corporation Ltd. | noted |  |  |
| S3-230213 | Address some ENs in Sol #11 of EDGE security | OPPO | approved |  |  |
| S3-230214 | Add evaluation in Sol#11 of EDGE security | OPPO | revised |  | S3-230512 |
| S3-230215 | pCR to update TR33.740 Solution 11 | China Telecom Corporation Ltd. | noted |  |  |
| S3-230216 | Conclusion to the KI#1 | China Telecom Corporation Ltd. | noted |  |  |
| S3-230217 | New solution on reusing existing authorization mechanism for 5G assistance information exposure to AF | OPPO | approved |  |  |
| S3-230218 | New solution on authorization for 5GC assistance information exposure to external AF | OPPO | revised |  | S3-230513 |
| S3-230219 | evaluation to TR33.740 Solution 9 | China Telecom Corporation Ltd. | noted |  |  |
| S3-230220 | New solution on authorization for 5GC assistance information exposure to internal AF | OPPO | revised |  | S3-230514 |
| S3-230221 | Update to the evaluation of solution 23 | China Telecom Corporation Ltd. | revised |  | S3-230548 |
| S3-230222 | New solution on authorization for 5GC assistance information exposure to internal AF | OPPO | withdrawn |  |  |
| S3-230223 | New solution on privacy protection for 5GC assistance information exposure to AF | OPPO | revised |  | S3-230516 |
| S3-230224 | A new solution for EEC authentication utilizing tokens | Ericsson | revised |  | S3-230484 |
| S3-230225 | Updating solution #17 | Ericsson | approved |  |  |
| S3-230226 | Resolving ENs in solution#13 | Ericsson | approved |  |  |
| S3-230227 | Resolving ENs in solution#14 | Ericsson | approved |  |  |
| S3-230228 | Conclusion for KI#2.1 | Ericsson | merged |  | S3-230571 |
| S3-230229 | Conclusion for KI#2.2 | Ericsson | merged |  | S3-230541 |
| S3-230230 | A solution for authorization before allowing access to resources | Ericsson | revised |  | S3-230486 |
| S3-230231 | Conclusions for KI#1 | Ericsson | revised |  | S3-230429 |
| S3-230232 | Solution to KI#1 – NSWO in SNPN with CH AUSF/UDM | Ericsson | revised |  | S3-230431 |
| S3-230233 | Evaluation of Solution#9 – NSWO in SNPN | Ericsson | revised |  | S3-230432 |
| S3-230234 | Update to the evaluation of solution 24 | China Telecom Corporation Ltd. | revised |  | S3-230549 |
| S3-230235 | Update to conclusion of KI#2 in TR 33.740 | China Telecom Corporation Ltd. | noted |  |  |
| S3-230236 | Update to solution#6 in TR 33.893 - add authorization check step | China Telecom Corporation Ltd. | approved |  |  |
| S3-230237 | EN related to Key Refresh and revocation | Intel | revised |  | S3-230525 |
| S3-230238 | Update to solution#6 in TR 33.893 - SLPK ID usage | China Telecom Corporation Ltd. | approved |  |  |
| S3-230239 | New solution for KI#2 to support authorization of participant NWDAFs in FL | Ericsson | revised |  | S3-230443 |
| S3-230240 | ENs resolving and evaluation for solution #10 | Ericsson | revised |  | S3-230442 |
| S3-230241 | Evaluation to Solution #11 | Ericsson | approved |  |  |
| S3-230242 | Evaluation to Solution #12 | Ericsson | approved |  |  |
| S3-230243 | Evaluation to Solution #13 | Ericsson | approved |  |  |
| S3-230244 | Adding conclusion on KI#3 | Ericsson | merged |  | S3-230510 |
| S3-230245 | Update of Solution #11: Resolving Editor's Note on scenarios in SA2 | Ericsson | revised |  | S3-230444 |
| S3-230246 | Update of Solution #11: Resolving Editor's Note in the evaluation | Ericsson | noted |  |  |
| S3-230247 | Conclusion for KI#2 "Authentication for UE access to hosting network" | Ericsson | revised |  | S3-230445 |
| S3-230248 | New WID on Security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson | noted |  |  |
| S3-230249 | update to KI#2 temporary network slice | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230250 | solution for KI#2 temporary network slice for NSSAA | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230251 | update to KI#3 network slice admission control | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230252 | security solution for KI#3 network slice admission control | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230253 | EN removal for solution#27 | Nokia, Nokia Shanghai Bell | revised |  | S3-230586 |
| S3-230254 | Resolve EN’s in Solution #27 | Ericsson | revised |  | S3-230497 |
| S3-230255 | Evaluation to Solution #27 | Ericsson | revised |  | S3-230498 |
| S3-230256 | Evaluation to solution #4 | Ericsson | revised |  | S3-230499 |
| S3-230257 | Update to solution #30 | Ericsson | revised |  | S3-230500 |
| S3-230258 | New security solution on discovery integrated into PC5 link establishment when L3 UE-to-UE relay is in coverage | Ericsson | revised |  | S3-230501 |
| S3-230259 | New solution with authorization tokens exchanged after PC5 security establishment | Ericsson | revised |  | S3-230502 |
| S3-230260 | Update of evaluation to solution #2 | Ericsson | revised |  | S3-230503 |
| S3-230261 | Update of evaluation to solution #3 | Ericsson | revised |  | S3-230504 |
| S3-230262 | LS on data and analytics exchange in roaming case in eNA | China mobile | noted |  |  |
| S3-230263 | Evaluation and EN resolving for solution #14 | China mobile | revised |  | S3-230546 |
| S3-230264 | Conclusion for key issue#1 | China mobile | merged |  | S3-230506 |
| S3-230265 | Conclusion for key issue#5 | China mobile | noted |  |  |
| S3-230266 | ProSe - Evaluation Solution #10 | Philips International B.V. | revised |  | S3-230454 |
| S3-230267 | ProSe - Editorials Solution #10 | Philips International B.V. | approved |  |  |
| S3-230268 | ProSe - Evaluation Solution #15 | Philips International B.V. | revised |  | S3-230455 |
| S3-230269 | PIN - Evaluation Solution #4 | Philips International B.V. | noted |  |  |
| S3-230270 | AKMA - Evaluation Solution #10 | Philips International B.V. | approved |  |  |
| S3-230271 | AKMA - Editorials Clause 4 | Philips International B.V. | approved |  |  |
| S3-230272 | Ranging - New solution KI#1, #2, #3 | Philips International B.V. | noted |  |  |
| S3-230273 | Ranging - Update Key Issue #1- privacy risks of exposing positioning reference signals | Philips International B.V. | noted |  |  |
| S3-230274 | Completion of solution #14 | THALES | revised |  | S3-230458 |
| S3-230275 | Conclusion to Key Issue #1 | THALES | noted |  |  |
| S3-230276 | Key Issue #1 | THALES | noted |  |  |
| S3-230277 | Resolve EN on discovery in solution #3 | Qualcomm Incorporated | approved |  |  |
| S3-230278 | Resolve EN on pairing in solution #3 | Qualcomm Incorporated | approved |  |  |
| S3-230279 | Evaluation of solution #3 | Qualcomm Incorporated | approved |  |  |
| S3-230280 | Editorial changes to UAS TR | Qualcomm Incorporated | approved |  |  |
| S3-230281 | Conclusion for key issue #1 | Qualcomm Incorporated | merged |  | S3-230449 |
| S3-230282 | Conclusion for key issue #2 | Qualcomm Incorporated | merged |  | S3-230450 |
| S3-230283 | Additional to conclusion for key issue #3 | Qualcomm Incorporated | merged |  | S3-230433 |
| S3-230284 | Conclusion for key issue #7 | Qualcomm Incorporated | approved |  |  |
| S3-230285 | Resolving the editor’s note in solution #7 | Qualcomm Incorporated | revised |  | S3-230439 |
| S3-230286 | Evaluation of solution #7 | Qualcomm Incorporated | noted |  |  |
| S3-230287 | Resolving the ENs in solution #22 | Qualcomm Incorporated | revised |  | S3-230440 |
| S3-230288 | Providing evaluation for solution #22 | Qualcomm Incorporated | noted |  |  |
| S3-230289 | Common authentication method between EEC and ECS/EES | Qualcomm Incorporated | noted | S3-223363 |  |
| S3-230290 | Conclusion for key issue #1 | Qualcomm Incorporated | noted |  |  |
| S3-230291 | Proposed addition to the conclusions | Qualcomm Incorporated | noted |  |  |
| S3-230292 | Updates on the solution #23 | Qualcomm Incorporated | approved |  |  |
| S3-230293 | Updates on the solution #24 | Qualcomm Incorporated | approved |  |  |
| S3-230294 | LS on UE-to-UE relay discovery direct discovery | Qualcomm Incorporated | noted |  |  |
| S3-230295 | Add an evaluation of solution #8 | Qualcomm Incorporated | noted |  |  |
| S3-230296 | Add an evaluation of solution #9 | Qualcomm Incorporated | noted |  |  |
| S3-230297 | Add an evaluation of solution #11 | Qualcomm Incorporated | noted |  |  |
| S3-230298 | Updates to the solution #25 | Qualcomm Incorporated | revised |  | S3-230528 |
| S3-230299 | reply LS on SL positioning groupcast and broadcast | Qualcomm Incorporated | merged |  | S3-230430 |
| S3-230300 | Updates to the Key Issue #4 | Qualcomm Incorporated | revised |  | S3-230527 |
| S3-230301 | A new solution for groupcast protection for Ranging/SL Positioning services | Qualcomm Incorporated | noted |  |  |
| S3-230302 | A new solution for mitigating privacy attacks exploiting group paging with TMGI | Qualcomm Incorporated | noted |  |  |
| S3-230303 | Reply LS on user consent of Non-public Network | Qualcomm Incorporated | noted |  |  |
| S3-230304 | Solution to KI#1 – NSWO in SNPN with CH AAA | Qualcomm Incorporated | revised |  | S3-230521 |
| S3-230305 | Resolution of EN#1 in Solution#7 for KI#1 | Qualcomm Incorporated | noted |  |  |
| S3-230306 | Resolution of EN#2 in Solution#7 for KI#1 | Qualcomm Incorporated | noted |  |  |
| S3-230307 | MEC - New key issue on secure retrieve of UE ID | Apple | noted |  |  |
| S3-230308 | MEC - Discussion paper on enformcement of AF specific identifier | Apple | noted |  |  |
| S3-230309 | MEC - LS to SA2 on enforcement of AF specific identifier | Apple | revised |  | S3-230462 |
| S3-230310 | Reply LS to S3-230017/S6-223558 on the use of a non-network defined identifier for UE identification | Apple | noted |  |  |
| S3-230311 | Reply LS to S3-230018/S6-223586 on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | Apple | revised |  | S3-230463 |
| S3-230312 | Reply LS to R2-2213142 on SL positioning | Apple | revised |  | S3-230430 |
| S3-230313 | New Solution to KI #11 based on Nnrf\_AccesToken Service | Ericsson LM | noted |  |  |
| S3-230314 | New Solution to KI #11 based on O&M Provisioning NRF with NFc profile | Ericsson LM | noted |  |  |
| S3-230315 | Discussion. Key issue #12: Security in Hosted SEPP scenarios | Ericsson | noted |  |  |
| S3-230316 | Update of Key issue #12: Security in Hosted SEPP scenarios | Ericsson | revised |  | S3-230585 |
| S3-230317 | Solution for KI#12: Security in Hosted SEPP scenarios | Ericsson | noted |  |  |
| S3-230318 | Evaluation of solution #5 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230319 | Evaluation of solution #12 | Nokia, Nokia Shanghai Bell | revised |  | S3-230460 |
| S3-230320 | Evaluation of solution #13 | Nokia, Nokia Shanghai Bell | revised |  | S3-230461 |
| S3-230321 | Proposal for a conclusion on KI#1 | Nokia, Nokia Shanghai Bell | merged |  | S3-230429 |
| S3-230322 | Proposal for a conclusion on KI#2 | Nokia, Nokia Shanghai Bell | merged |  | S3-230445 |
| S3-230323 | Discussion paper concerning conclusion of KI#1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230324 | Discussion paper concerning conclusion of KI#2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230325 | Key Issue on KAF refresh | Samsung | noted |  |  |
| S3-230326 | Update on use case clause and solution #6 | Samsung | noted |  |  |
| S3-230327 | EN Resolution and Evaluation of Sol #19 | Samsung | revised |  | S3-230536 |
| S3-230328 | EN Resolutions and Evaluation of Sol #29 | Samsung | revised |  | S3-230537 |
| S3-230329 | Resolving EN in solution#3 (TR 33.739) | Samsung | revised |  | S3-230538 |
| S3-230330 | Resolving EN and updating evaluation in solution#4 (TR 33.739) | Samsung | revised |  | S3-230539 |
| S3-230331 | Solution on Public key signature based authentication | Samsung | revised |  | S3-230540 |
| S3-230332 | Evaluation for solution#22 | Samsung | noted |  |  |
| S3-230333 | Conclusion for KI#2.1 | Samsung | merged |  | S3-230571 |
| S3-230334 | Conclusion for KI#2.2 | Samsung | revised |  | S3-230541 |
| S3-230335 | Updates to solution#1 in TR 33.883 | Samsung | revised |  | S3-230542 |
| S3-230336 | [MBS] Conclusion for Key Issue#1 | Samsung | noted |  |  |
| S3-230337 | Update of Key Issue #2 | Samsung | revised |  | S3-230543 |
| S3-230338 | New Solution on Resource owner Authorization in API Invocation using OAuth 2.0 Authorization Code Grant | Samsung | revised |  | S3-230544 |
| S3-230339 | New Solution on Resource owner Authorization in API Invocation | Samsung | revised |  | S3-230545 |
| S3-230340 | Evaluation for Solution #6 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230341 | Discussion paper on KI#3 related solutions evaluation. | Nokia, Nokia Shanghai Bell, China Mobile (Suzhou) Software | noted |  |  |
| S3-230342 | Adding conclusion on KI#1 | Nokia, Nokia Shanghai Bell | revised |  | S3-230506 |
| S3-230343 | Solution for authorization in FL | Nokia, Nokia Shanghai Bell | revised |  | S3-230488 |
| S3-230344 | Adding conclusion on KI#3 | Nokia, Nokia Shanghai Bell, China Mobile (Suzhou) Software | revised |  | S3-230510 |
| S3-230345 | pCR to TR33.740 Update Solution16 for removing ENs | CATT | revised |  | S3-230550 |
| S3-230346 | pCR to TR33.740 Update Solution17 for removing ENs | CATT | revised |  | S3-230551 |
| S3-230347 | pCR to TR33.740 Update Solution18 for removing ENs and add evaluation | CATT | revised |  | S3-230552 |
| S3-230348 | pCR to TR33.740 Update Solution28 for removing ENs | CATT | revised |  | S3-230553 |
| S3-230349 | pCR to TR33.740 Evaluation of Solution28 | CATT | revised |  | S3-230554 |
| S3-230350 | pCR to TR33.740 Conclusion of key issue #1 | CATT | noted |  |  |
| S3-230351 | pCR to TR33.740 Conclusion of key issue #2 | CATT | noted |  |  |
| S3-230352 | pCR to TR33.740 Conclusion of key issue #3 | CATT | noted |  |  |
| S3-230353 | pCR to TR33.893 New key issue on groupcast and broadcast security | CATT | revised |  | S3-230566 |
| S3-230354 | pCR to TR33.893 New solution for protecting groupcast and broadcast data in coverage | CATT | noted |  |  |
| S3-230355 | pCR to TR33.893 New solution for protecting groupcast and broadcast data in out of coverage | CATT | noted |  |  |
| S3-230356 | Reply LS on SL positioning groupcast and broadcast | CATT | merged |  | S3-230430 |
| S3-230357 | [Draft] Reply LS on SL positioning groupcast and broadcast | Xiaomi Technology | merged |  | S3-230430 |
| S3-230358 | 33.893: Additional Evaluation for Solution #1 | Xiaomi Technology | noted |  |  |
| S3-230359 | 33.893: Update to Solution #2 | Xiaomi Technology | revised |  | S3-230559 |
| S3-230360 | 33.893: Resolve the Editor’s Note in Solution #4 | Xiaomi Technology | noted |  |  |
| S3-230361 | 33.893: Evaluation for Solution #4 | Xiaomi Technology | revised |  | S3-230560 |
| S3-230362 | 33.893: Evaluation for Solution #6 | Xiaomi Technology | revised |  | S3-230562 |
| S3-230363 | 33.893: Resolve the Editor’s Note in Solution #7 | Xiaomi Technology | noted |  |  |
| S3-230364 | 33.893: New Solution on Token-based Authorization of the Role of the UE during Discovery | Xiaomi Technology | noted |  |  |
| S3-230365 | 33.893: New Solution on Role Verification during Discovery based on Discovery Keys | Xiaomi Technology | noted |  |  |
| S3-230366 | 33.893: New Solution on Authorization of SL Positioning Client UE for Obtaining Ranging Result | Xiaomi Technology | revised |  | S3-230561 |
| S3-230367 | 33.700-28: Add Potential Requirements for Key Issue #1 | Xiaomi Technology | revised |  | S3-230563 |
| S3-230368 | 33.700-28: New Key Issue on Protection of UE Unreachability Period retrieved by the UE | Xiaomi Technology | noted |  |  |
| S3-230369 | 33.700-28: New Solution to KI#1 for AF Authorization on per UE Level | Xiaomi Technology | noted |  |  |
| S3-230370 | 33.896: Evaluation for Solution #1 | Xiaomi Technology | noted |  |  |
| S3-230371 | 33.896: Evaluation for Solution #2 | Xiaomi Technology | noted |  |  |
| S3-230372 | KI #1, New Sol on OAuth 2.0 based 5GC assistance information exposure authorization | Xiaomi communications | noted |  |  |
| S3-230373 | TR 33.898 Resolve EN for sol #2 | Xiaomi communications | approved |  |  |
| S3-230374 | new Sol on AKMA roaming in multiple registration scenarios | Xiaomi communications | noted |  |  |
| S3-230375 | TR 33.737 Evaluation for sol #15 | Xiaomi communications | revised |  | S3-230533 |
| S3-230376 | TR 33.737 Conclusion for KI #1 | Xiaomi communications | noted |  |  |
| S3-230377 | Conclusion for KI 2.1 Authentication and authorization of the EEC UE by the ECS EES. | Xiaomi communications | merged |  | S3-230571 |
| S3-230378 | Conclusion for KI 2.2 Authentication mechanism selection between EEC and ECSEES | Xiaomi communications | merged |  | S3-230541 |
| S3-230379 | TR 33.379 Evaluation for Sol #5 | Xiaomi communications | approved |  |  |
| S3-230380 | TR 33.379 Resolve ENs for sol #1 and #2 | Xiaomi communications | approved |  |  |
| S3-230381 | TR 33.379 Resolve ENs for Sol #5 | Xiaomi communications | approved |  |  |
| S3-230382 | TR 33.858 Evaluation for Sol #1 | Xiaomi communications | approved |  |  |
| S3-230383 | TR 33.858 Evaluation for Sol #2 | Xiaomi communications | approved |  |  |
| S3-230384 | TR 33.858 Evaluation for Sol #4 | Xiaomi communications | approved |  |  |
| S3-230385 | TR 33.882 Resolve ENs for sol #5 | Xiaomi communications | revised |  | S3-230531 |
| S3-230386 | KI #2, new Sol on AF authorization in PIN scenarios | Xiaomi communications | approved |  |  |
| S3-230387 | KI #2 update for partly allowed rejected S-NSSAI | Xiaomi communications | noted |  |  |
| S3-230388 | New Sol on authorization mechanism for partly rejected S-NSSAI | Xiaomi communications | noted |  |  |
| S3-230389 | KI#2, New Sol OAuth 2.0 based API invocation procedure | Xiaomi communications | revised |  | S3-230534 |
| S3-230390 | KI#2, New Sol on User authorization revocation for API invocation procedure | Xiaomi communications | noted |  |  |
| S3-230391 | KI#2, New Sol UE credential based API invocation procedure | Xiaomi communications | revised |  | S3-230535 |
| S3-230392 | Update to solution #8 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230393 | Update to solution #9 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230394 | Evaluation of solution #8 in TR 33.740 | Beijing Xiaomi Mobile Software | revised |  | S3-230556 |
| S3-230395 | Evaluation of solution #9 in TR 33.740 | Beijing Xiaomi Mobile Software | revised |  | S3-230557 |
| S3-230396 | Remove the Editor's Note and evaluate the solution #7 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230397 | Remove the Editor's Notes of solution #20 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230398 | Evaluation of solution #30 in TR 33.740 | Beijing Xiaomi Mobile Software | revised |  | S3-230558 |
| S3-230399 | Conclusion on Key Issue #1 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230400 | Conclusion on Key Issue #2 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230401 | Conclusion on Key Issue #3 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230402 | Conclusion on Key Issue #4 in TR 33.740 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230403 | New solution on Ranging/SL Positioning discovery and link establishment procedure for V2X capable UEs | Beijing Xiaomi Mobile Software | approved |  |  |
| S3-230404 | Remove the Editor's Note of solution #3 in TR 33.893 | Beijing Xiaomi Mobile Software | approved |  |  |
| S3-230405 | Remove the Editor's Note of solution #5 in TR 33.893 | Beijing Xiaomi Mobile Software | revised |  | S3-230555 |
| S3-230406 | Remove the Editor's Note and evaluate the solution #3 in TR 33.896 | Beijing Xiaomi Mobile Software | approved |  |  |
| S3-230407 | Remove the Editor's Note and evaluate the solution #4 in TR 33.896 | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-230408 | Conclusion on Key Issue #1 in TR 33.896 | Beijing Xiaomi Mobile Software | merged |  | S3-230474 |
| S3-230409 | New Key issue on the security of the information transfer of the RAN AI/ML framework | Ericsson | approved |  |  |
| S3-230410 | KI2 conclusion | Ericsson | noted |  |  |
| S3-230411 | Solution 12 updates | Ericsson | approved |  |  |
| S3-230412 | Resolve\_EN\_solution#5 | Ericsson | revised |  | S3-230568 |
| S3-230413 | Resolve\_ENs\_solution#1 | Ericsson | approved |  |  |
| S3-230414 | KI and Solution on user consent in roaming | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230415 | Sol update central authorization for user consent handling | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230416 | Key issue on authentication of N5CW devices behind RG | CableLabs, Nokia, Nokia Shanghai Bell, Rogers Communications | noted |  |  |
| S3-230417 | Key issue on authentication of UE behind RG | CableLabs, Rogers Communications | revised |  | S3-230526 |
| S3-230418 | Solution for authentication of UE behind RG using NSWO | CableLabs, Rogers Communications | approved |  |  |
| S3-230419 | Key issue on authentication of AUN3 device without 5G credentials | CableLabs | noted |  |  |
| S3-230420 | adding new use case in KI1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-230421 | pCR to 33.884 updating solution #2 | NTT DOCOMO INC. | revised |  | S3-230515 |
| S3-230422 | pCR to 33.884 adding new solution: PKCE flow | NTT DOCOMO INC. | revised |  | S3-230517 |
| S3-230423 | pCR to 33.884 adding new solution: token validation | NTT DOCOMO INC. | revised |  | S3-230518 |
| S3-230424 | Solution for authentication of AUN3 device without 5G Creden | CableLabs | noted |  |  |
| S3-230425 | Draft 33.887 Study on Security aspects for 5WWC Phase 2 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230426 | solution 5 update | Nokia, Nokia Shanghai Bell, Lenovo | approved | S3-230054 |  |
| S3-230427 | solution 6 update | Nokia, Nokia Shanghai Bell, Lenovo | approved | S3-230055 |  |
| S3-230428 | TR 33.875-160 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-230429 | Conclusions for KI#1 | Ericsson, Nokia, Nokia Shanghai Bell | approved | S3-230231 |  |
| S3-230430 | Reply LS to R2-2213142 on SL positioning | Apple | approved | S3-230312 |  |
| S3-230431 | Solution to KI#1 – NSWO in SNPN with CH AUSF/UDM | Ericsson | approved | S3-230232 |  |
| S3-230432 | Evaluation of Solution#9 – NSWO in SNPN | Ericsson | approved | S3-230233 |  |
| S3-230433 | Update conclusion TR 33.891 KI #3 | InterDigital, Europe, Ltd., Lenovo, Qualcomm | approved | S3-230025 |  |
| S3-230434 | Update conclusion TR 33.891 KI #4. | InterDigital, Europe, Ltd. | approved | S3-230026 |  |
| S3-230435 | Evaluation TR 33.740 Sol #1 | InterDigital, Europe, Ltd. | approved | S3-230028 |  |
| S3-230436 | Evaluation TR 33.740 Sol #12 | InterDigital, Europe, Ltd. | approved | S3-230029 |  |
| S3-230437 | Evaluation TR 33.740 Sol #13 | InterDigital, Europe, Ltd. | approved | S3-230030 |  |
| S3-230438 | Update to TR 33.740 Conclusion for KI#4 | InterDigital, Europe, Ltd. | approved | S3-230033 |  |
| S3-230439 | Resolving the editor’s note in solution #7 | Qualcomm Incorporated | approved | S3-230285 |  |
| S3-230440 | Resolving the ENs in solution #22 | Qualcomm Incorporated | approved | S3-230287 |  |
| S3-230441 | Draft TR 33.891 | Qualcomm | approved | S3-224112 |  |
| S3-230442 | ENs resolving and evaluation for solution #10 | Ericsson | approved | S3-230240 |  |
| S3-230443 | New solution for KI#2 to support authorization of participant NWDAFs in FL | Ericsson | approved | S3-230239 |  |
| S3-230444 | Update of Solution #11: Resolving Editor's Note on scenarios in SA2 | Ericsson | approved | S3-230245 |  |
| S3-230445 | Conclusion for KI#2 "Authentication for UE access to hosting network" | Ericsson, Intel, Nokia, Nokia Shanghai Bell | approved | S3-230247 |  |
| S3-230446 | Evaluation to Solution #8 | Lenovo | approved | S3-230063 |  |
| S3-230447 | Update to Solution #9 in eNA | Lenovo | approved | S3-230064 |  |
| S3-230448 | Cyber attack detection | Lenovo | approved | S3-230065 |  |
| S3-230449 | Conclusion to KI#1 Direct C2 Security | Lenovo, Qualcomm, Huawei, Interdigital | approved | S3-230066 |  |
| S3-230450 | Conclusion to KI#2 Security of DAA unicast connection | Lenovo, Huawei, Qualcomm | approved | S3-230067 |  |
| S3-230451 | Update to Solution #4 in SNAAPPY | Lenovo | approved | S3-230069 |  |
| S3-230452 | Solution to address KI#2 | Lenovo | approved | S3-230070 |  |
| S3-230453 | Solution to Key Issue #2 | Lenovo | approved | S3-230073 |  |
| S3-230454 | ProSe - Evaluation Solution #10 | Philips International B.V. | approved | S3-230266 |  |
| S3-230455 | ProSe - Evaluation Solution #15 | Philips International B.V. | approved | S3-230268 |  |
| S3-230456 | Evaluation for solution#1 | China Telecommunications | approved | S3-230091 |  |
| S3-230457 | New solution to KI#2 | China Telecommunications | approved | S3-230102 |  |
| S3-230458 | Completion of solution #14 | THALES | approved | S3-230274 |  |
| S3-230459 | New solution to KI#5 | China Telecommunications | approved | S3-230123 |  |
| S3-230460 | Evaluation of solution #12 | Nokia, Nokia Shanghai Bell | approved | S3-230319 |  |
| S3-230461 | Evaluation of solution #13 | Nokia, Nokia Shanghai Bell | approved | S3-230320 |  |
| S3-230462 | MEC - LS to SA2 on enforcement of AF specific identifier | Apple | approved | S3-230309 |  |
| S3-230463 | Reply LS to S3-230018/S6-223586 on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | Apple | approved | S3-230311 |  |
| S3-230464 | Draft TR 33.883 | Huawei, HiSilicon | available |  |  |
| S3-230465 | Draft TR 33.886 for eNS3 | Huawei, HiSilicon | approved |  |  |
| S3-230466 | Addressing the editor's note in solution 3 | Huawei, HiSilicon | approved | S3-230151 |  |
| S3-230467 | update to solution 3 | Huawei, HiSilicon | approved | S3-230154 |  |
| S3-230468 | update the evaluation in solution 1 | Huawei, HiSilicon | approved | S3-230155 |  |
| S3-230469 | Addressing the editor's note in solution 1 | Huawei, HiSilicon | approved | S3-230157 |  |
| S3-230470 | Evaluation to solution 15 | Huawei, HiSilicon | approved | S3-230160 |  |
| S3-230471 | Evaluation to solution 16 | Huawei, HiSilicon | approved | S3-230161 |  |
| S3-230472 | A new solution to security about EAS discovery procedure via V-EASDF | Huawei, HiSilicon | approved | S3-230163 |  |
| S3-230473 | Key Issue Update on User Consent for NTN | Huawei, HiSilicon | approved | S3-230165 |  |
| S3-230474 | Conclusion for key issue #1 | Huawei, HiSilicon, Xiaomi | approved | S3-230170 |  |
| S3-230475 | Address EN for solution 1: onboarding | Huawei, HiSilicon | approved | S3-230172 |  |
| S3-230476 | Address EN for solution 1: authorization decision | Huawei, HiSilicon | approved | S3-230174 |  |
| S3-230477 | Evaluation Update on Solution 1 | Huawei, HiSilicon | approved | S3-230175 |  |
| S3-230478 | Address EN for So#l26 | Huawei, HiSilicon | approved | S3-230185 |  |
| S3-230479 | Evaluate to the solution #20 | Huawei, HiSilicon | approved | S3-230186 |  |
| S3-230480 | A new solution on KI#4 | Huawei, HiSilicon | approved | S3-230193 |  |
| S3-230481 | conclusion to KI#3 | Huawei, HiSilicon | approved | S3-230196 |  |
| S3-230482 | Update solution for PINE authentication and authorization over 5G CP | vivo | approved | S3-230045 |  |
| S3-230483 | Draft TR 33.858 v0.4.0 | Ericsson | available |  |  |
| S3-230484 | A new solution for EEC authentication utilizing tokens | Ericsson | approved | S3-230224 |  |
| S3-230485 | Update the KI#6 | ZTE Corporation | approved | S3-230103 |  |
| S3-230486 | A solution for authorization before allowing access to resources | Ericsson | approved | S3-230230 |  |
| S3-230487 | Add editors note to solution 5 | ZTE Corporation | approved | S3-230106 |  |
| S3-230488 | Solution for authorization in FL | Nokia, Nokia Shanghai Bell | approved | S3-230343 |  |
| S3-230489 | Add evaluation to solution #6 | ZTE Corporation | approved | S3-230115 |  |
| S3-230490 | Add a new solution to KI#2 | ZTE Corporation | approved | S3-230122 |  |
| S3-230491 | LS on clarification on user consent for AIML | OPPO | approved | S3-230124 |  |
| S3-230492 | Resolving EN for Solution 22 | OPPO | approved | S3-230126 |  |
| S3-230493 | KI10 solution 25 update on security profiles | BSI (DE), Nokia, Nokia Shanghai Bell | approved | S3-230021 |  |
| S3-230494 | Draft TR 33.898 v0.4.0 | OPPO | available |  |  |
| S3-230495 | Resolving ENs in solution #9 of EDGE security | OPPO | approved | S3-230204 |  |
| S3-230496 | KI10 update on RHUB | BSI (DE), Nokia, Nokia Shanghai Bell | approved | S3-230022 |  |
| S3-230497 | Resolve EN’s in Solution #27 | Ericsson | approved | S3-230254 |  |
| S3-230498 | Evaluation to Solution #27 | Ericsson | approved | S3-230255 |  |
| S3-230499 | Evaluation to solution #4 | Ericsson | approved | S3-230256 |  |
| S3-230500 | Update to solution #30 | Ericsson | approved | S3-230257 |  |
| S3-230501 | New security solution on discovery integrated into PC5 link establishment when L3 UE-to-UE relay is in coverage | Ericsson | approved | S3-230258 |  |
| S3-230502 | New solution with authorization tokens exchanged after PC5 security establishment | Ericsson | approved | S3-230259 |  |
| S3-230503 | Update of evaluation to solution #2 | Ericsson | approved | S3-230260 |  |
| S3-230504 | Update of evaluation to solution #3 | Ericsson | approved | S3-230261 |  |
| S3-230505 | Resolving ENs in solution #10 of EDGE security | OPPO | approved | S3-230206 |  |
| S3-230506 | Adding conclusion on KI#1 | Nokia, Nokia Shanghai Bell, China Mobile | approved | S3-230342 |  |
| S3-230507 | KI12 solution 19 update on hosted SEPP | BSI (DE), Nokia, Nokia Shanghai Bell, Deutsche Telekom | approved | S3-230023 |  |
| S3-230508 | Resolving ENs in solution #11 of EDGE security | OPPO | approved | S3-230208 |  |
| S3-230509 | Address an EN in Sol #9 of EDGE security | OPPO | approved | S3-230210 |  |
| S3-230510 | Adding conclusion on KI#3 | Nokia, Nokia Shanghai Bell, China Mobile, Intel, Ericsson | approved | S3-230344 |  |
| S3-230511 | Address an EN in Sol #10 of EDGE security | OPPO | approved | S3-230211 |  |
| S3-230512 | Add evaluation in Sol#11 of EDGE security | OPPO | approved | S3-230214 |  |
| S3-230513 | New solution on authorization for 5GC assistance information exposure to external AF | OPPO | approved | S3-230218 |  |
| S3-230514 | New solution on authorization for 5GC assistance information exposure to internal AF | OPPO | approved | S3-230220 |  |
| S3-230515 | pCR to 33.884 updating solution #2 | NTT DOCOMO INC. | approved | S3-230421 |  |
| S3-230516 | New solution on privacy protection for 5GC assistance information exposure to AF | OPPO | approved | S3-230223 |  |
| S3-230517 | pCR to 33.884 adding new solution: PKCE flow | NTT DOCOMO INC. | approved | S3-230422 |  |
| S3-230518 | pCR to 33.884 adding new solution: token validation | NTT DOCOMO INC. | approved | S3-230423 |  |
| S3-230519 | draft TR 33.884 | NTT DOCOMO INC. | available |  |  |
| S3-230520 | Sol#3 Resolution of EN on Mutual Authentication | Nokia, Nokia Shanghai Bell | approved | S3-230077 |  |
| S3-230521 | Solution to KI#1 – NSWO in SNPN with CH AAA | Qualcomm Incorporated | approved | S3-230304 |  |
| S3-230522 | Sol#3 Resolution of EN on Client Credential Grant | Nokia, Nokia Shanghai Bell | approved | S3-230078 |  |
| S3-230523 | Add Usecases to Solution 10 | Intel | approved | S3-230190 |  |
| S3-230524 | FL GROUP AUTHORIZATION OF NWDAF(S) IN 5GC | Intel | approved | S3-230209 |  |
| S3-230525 | EN related to Key Refresh and revocation | Intel | approved | S3-230237 |  |
| S3-230526 | Key issue on authentication of UE behind RG | CableLabs, Rogers Communications, Charter Communications | approved | S3-230417 |  |
| S3-230527 | Updates to the Key Issue #4 | Qualcomm Incorporated | approved | S3-230300 |  |
| S3-230528 | Updates to the solution #25 | Qualcomm Incorporated | approved | S3-230298 |  |
| S3-230529 | TR 33.882 v0.5.0 | vivo Mobile Communication (S) | approved |  |  |
| S3-230530 | TR 33.896v050 | Huawei;HiSilicon | approved |  |  |
| S3-230531 | TR 33.882 Resolve ENs for sol #5 | Xiaomi communications | approved | S3-230385 |  |
| S3-230532 | TR 33.741v050 | Huawei;HiSilicon | approved |  |  |
| S3-230533 | TR 33.737 Evaluation for sol #15 | Xiaomi communications | approved | S3-230375 |  |
| S3-230534 | KI#2, New Sol OAuth 2.0 based API invocation procedure | Xiaomi communications | approved | S3-230389 |  |
| S3-230535 | KI#2, New Sol UE credential based API invocation procedure | Xiaomi communications | approved | S3-230391 |  |
| S3-230536 | EN Resolution and Evaluation of Sol #19 | Samsung | approved | S3-230327 |  |
| S3-230537 | EN Resolutions and Evaluation of Sol #29 | Samsung | approved | S3-230328 |  |
| S3-230538 | Resolving EN in solution#3 (TR 33.739) | Samsung | approved | S3-230329 |  |
| S3-230539 | Resolving EN and updating evaluation in solution#4 (TR 33.739) | Samsung | approved | S3-230330 |  |
| S3-230540 | Solution on Public key signature based authentication | Samsung | approved | S3-230331 |  |
| S3-230541 | Conclusion for KI#2.2 | Samsung | approved | S3-230334 |  |
| S3-230542 | Updates to solution#1 in TR 33.883 | Samsung | approved | S3-230335 |  |
| S3-230543 | Update of Key Issue #2 | Samsung | approved | S3-230337 |  |
| S3-230544 | New Solution on Resource owner Authorization in API Invocation using OAuth 2.0 Authorization Code Grant | Samsung | approved | S3-230338 |  |
| S3-230545 | New Solution on Resource owner Authorization in API Invocation | Samsung | approved | S3-230339 |  |
| S3-230546 | Evaluation and EN resolving for solution #14 | China mobile | approved | S3-230263 |  |
| S3-230547 | draft TR 33.738 0.5.0 | China Mobile Com. Corporation | available |  |  |
| S3-230548 | Update to the evaluation of solution 23 | China Telecom Corporation Ltd. | approved | S3-230221 |  |
| S3-230549 | Update to the evaluation of solution 24 | China Telecom Corporation Ltd. | approved | S3-230234 |  |
| S3-230550 | pCR to TR33.740 Update Solution16 for removing ENs | CATT | approved | S3-230345 |  |
| S3-230551 | pCR to TR33.740 Update Solution17 for removing ENs | CATT | approved | S3-230346 |  |
| S3-230552 | pCR to TR33.740 Update Solution18 for removing ENs and add evaluation | CATT | approved | S3-230347 |  |
| S3-230553 | pCR to TR33.740 Update Solution28 for removing ENs | CATT | approved | S3-230348 |  |
| S3-230554 | pCR to TR33.740 Evaluation of Solution28 | CATT | approved | S3-230349 |  |
| S3-230555 | Remove the Editor's Note of solution #5 in TR 33.893 | Beijing Xiaomi Mobile Software | approved | S3-230405 |  |
| S3-230556 | Evaluation of solution #8 in TR 33.740 | Beijing Xiaomi Mobile Software | approved | S3-230394 |  |
| S3-230557 | Evaluation of solution #9 in TR 33.740 | Beijing Xiaomi Mobile Software | approved | S3-230395 |  |
| S3-230558 | Evaluation of solution #30 in TR 33.740 | Beijing Xiaomi Mobile Software | approved | S3-230398 |  |
| S3-230559 | 33.893: Update to Solution #2 | Xiaomi Technology | approved | S3-230359 |  |
| S3-230560 | 33.893: Evaluation for Solution #4 | Xiaomi Technology | approved | S3-230361 |  |
| S3-230561 | 33.893: New Solution on Authorization of SL Positioning Client UE for Obtaining Ranging Result | Xiaomi Technology | approved | S3-230366 |  |
| S3-230562 | 33.893: Evaluation for Solution #6 | Xiaomi Technology | approved | S3-230362 |  |
| S3-230563 | 33.700-28: Add Potential Requirements for Key Issue #1 | Xiaomi Technology | approved | S3-230367 |  |
| S3-230564 | draft TR 33.893 v0.5.0 | Xiaomi Technology | available |  |  |
| S3-230565 | draft TR 33.700-28 v0.3.0 | Xiaomi Technology | available |  |  |
| S3-230566 | pCR to TR33.893 New key issue on groupcast and broadcast security | CATT, Xiaomi Technology | approved | S3-230353 |  |
| S3-230567 | Draft TR 33.740 | CATT | approved |  |  |
| S3-230568 | Resolve\_EN\_solution#5 | Ericsson | approved | S3-230412 |  |
| S3-230569 | address EN for solution#4 | Huawei, HiSilicon | approved | S3-230095 |  |
| S3-230570 | Draft TR 33.390 v0.5.0 | Huawei, HiSilicon | approved |  |  |
| S3-230571 | Conclusion on KI#2.1 | Huawei, HiSilicon, Thales | approved | S3-230097 |  |
| S3-230572 | Conclusion on KI#2.6 | Huawei, HiSilicon | approved | S3-230099 |  |
| S3-230573 | Draft TR 33.739 v0.5.0 | Huawei, HiSilicon | approved |  |  |
| S3-230574 | Evaluation of Solution#4 | Lenovo | approved | S3-230081 |  |
| S3-230575 | Draft TR 33.877 v0.5.0 Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN | Ericsson España S.A. | approved |  |  |
| S3-230576 | Study on 5G roaming topics | Nokia, Nokia Shanghai Bell, Deutsche Telekom | endorsed | S3-230143 |  |
| S3-230577 | KI1 sol13 EN resolution | Nokia, Nokia Shanghai Bell | approved | S3-230128 |  |
| S3-230578 | KI1 analysis update | Nokia, Nokia Shanghai Bell | approved | S3-230129 |  |
| S3-230579 | KI4 analysis and conclusion update | Nokia, Nokia Shanghai Bell | approved | S3-230131 |  |
| S3-230580 | KI5 sol16 EN resolution | Nokia, Nokia Shanghai Bell | approved | S3-230133 |  |
| S3-230581 | KI6 conclusion update | Nokia, Nokia Shanghai Bell | approved | S3-230134 |  |
| S3-230582 | KI8 conclusion update | Nokia, Nokia Shanghai Bell | approved | S3-230136 |  |
| S3-230583 | KI12 Hosted SEPP solution | Nokia, Nokia Shanghai Bell | approved | S3-230141 |  |
| S3-230584 | Draft TR 33.737 v0.5.0 | China Mobile | approved |  |  |
| S3-230585 | Update of Key issue #12: Security in Hosted SEPP scenarios | Ericsson,Nokia, Nokia Shanghai Bell, Mavenir | revised | S3-230316 | S3-230588 |
| S3-230586 | EN removal for solution#27 | Nokia, Nokia Shanghai Bell | approved | S3-230253 | - |
| S3-230587 | New Solution of authorization for EDGE-9 reference point | InterDigital Communications | approved | S3-230037 | - |
| S3-230588 | Update of Key issue #12: Security in Hosted SEPP scenarios | Ericsson,Nokia, Nokia Shanghai Bell, Mavenir | approved | S3-230585 | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-230001 | 23/01/2023 14:14:27 | approved |
| S3-230002 | 23/01/2023 14:14:31 | noted |
| S3-230003 | 23/01/2023 14:14:34 | noted |
| S3-230004 | 25/01/2023 14:02:35 | noted |
| S3-230005 | 23/01/2023 14:14:46 | postponed |
| S3-230006 | 23/01/2023 14:14:59 | noted |
| S3-230007 | 23/01/2023 14:18:13 | available |
| S3-230008 | 23/01/2023 14:15:12 | postponed |
| S3-230009 | 23/01/2023 14:15:07 | noted |
| S3-230010 | 23/01/2023 14:20:08 | postponed |
| S3-230011 | 23/01/2023 14:20:26 | postponed |
| S3-230012 | 23/01/2023 14:20:33 | noted |
| S3-230013 | 23/01/2023 14:20:37 | noted |
| S3-230014 | 23/01/2023 14:20:43 | noted |
| S3-230015 | 23/01/2023 14:20:46 | noted |
| S3-230016 | 23/01/2023 14:20:52 | noted |
| S3-230017 | 23/01/2023 14:21:00 | postponed |
| S3-230018 | 23/01/2023 14:21:56 | available |
| S3-230019 | 25/01/2023 14:02:13 | noted |
| S3-230020 | 25/01/2023 14:02:18 | noted |
| S3-230024 | 25/01/2023 09:15:22 | available |
| S3-230027 | 25/01/2023 09:18:10 | noted |
| S3-230031 | 23/01/2023 14:23:07 | approved |
| S3-230032 | 23/01/2023 14:50:57 | noted |
| S3-230034 | 25/01/2023 10:10:52 | noted |
| S3-230035 | 25/01/2023 10:10:57 | noted |
| S3-230036 | 25/01/2023 08:48:28 | noted |
| S3-230037 | 24/01/2023 09:58:43 | revised |
| S3-230038 | 25/01/2023 10:10:21 | noted |
| S3-230039 | 25/01/2023 10:41:52 | noted |
| S3-230040 | 23/01/2023 14:20:17 | noted |
| S3-230041 | 25/01/2023 10:52:26 | noted |
| S3-230042 | 23/01/2023 15:58:41 | noted |
| S3-230043 | 23/01/2023 15:58:46 | noted |
| S3-230044 | 23/01/2023 15:58:49 | noted |
| S3-230046 | 23/01/2023 16:00:11 | noted |
| S3-230047 | 23/01/2023 16:00:34 | noted |
| S3-230048 | 25/01/2023 08:31:24 | noted |
| S3-230049 | 25/01/2023 08:31:28 | approved |
| S3-230050 | 25/01/2023 08:31:29 | approved |
| S3-230051 | 23/01/2023 16:09:12 | approved |
| S3-230052 | 25/01/2023 08:26:47 | approved |
| S3-230053 | 25/01/2023 08:31:37 | noted |
| S3-230056 | 23/01/2023 15:13:39 | noted |
| S3-230057 | 23/01/2023 15:13:40 | noted |
| S3-230058 | 23/01/2023 15:14:15 | noted |
| S3-230059 | 23/01/2023 15:17:04 | noted |
| S3-230060 | 23/01/2023 15:17:07 | noted |
| S3-230061 | 23/01/2023 16:04:34 | noted |
| S3-230062 | 23/01/2023 16:04:57 | noted |
| S3-230068 | 25/01/2023 09:17:37 | available |
| S3-230071 | 23/01/2023 16:04:01 | noted |
| S3-230072 | 23/01/2023 16:04:03 | noted |
| S3-230074 | 23/01/2023 16:01:53 | approved |
| S3-230075 | 23/01/2023 16:01:57 | approved |
| S3-230076 | 23/01/2023 16:02:00 | approved |
| S3-230079 | 23/01/2023 15:58:59 | noted |
| S3-230080 | 23/01/2023 15:20:12 | noted |
| S3-230082 | 23/01/2023 15:17:44 | approved |
| S3-230083 | 25/01/2023 08:39:46 | noted |
| S3-230084 | 25/01/2023 10:41:54 | noted |
| S3-230085 | 23/01/2023 16:04:24 | noted |
| S3-230086 | 23/01/2023 16:04:31 | noted |
| S3-230087 | 23/01/2023 16:06:09 | noted |
| S3-230088 | 23/01/2023 16:05:04 | noted |
| S3-230089 | 23/01/2023 16:08:05 | noted |
| S3-230090 | 23/01/2023 16:08:25 | noted |
| S3-230092 | 25/01/2023 08:32:04 | approved |
| S3-230093 | 25/01/2023 08:32:07 | noted |
| S3-230094 | 25/01/2023 08:32:11 | approved |
| S3-230096 | 25/01/2023 08:35:40 | noted |
| S3-230098 | 23/01/2023 15:48:21 | available |
| S3-230100 | 23/01/2023 15:58:34 | approved |
| S3-230101 | 23/01/2023 15:17:55 | approved |
| S3-230104 | 23/01/2023 14:23:14 | noted |
| S3-230105 | 23/01/2023 15:13:29 | noted |
| S3-230107 | 23/01/2023 15:14:56 | approved |
| S3-230108 | 23/01/2023 15:14:59 | approved |
| S3-230109 | 23/01/2023 15:15:03 | noted |
| S3-230110 | 23/01/2023 15:15:08 | noted |
| S3-230111 | 23/01/2023 15:14:24 | noted |
| S3-230112 | 23/01/2023 15:13:56 | approved |
| S3-230113 | 23/01/2023 15:17:11 | noted |
| S3-230114 | 23/01/2023 15:48:33 | available |
| S3-230116 | 23/01/2023 16:00:42 | noted |
| S3-230117 | 23/01/2023 16:00:59 | noted |
| S3-230118 | 23/01/2023 16:00:18 | noted |
| S3-230119 | 23/01/2023 16:05:13 | noted |
| S3-230120 | 23/01/2023 16:05:17 | noted |
| S3-230121 | 23/01/2023 16:04:45 | noted |
| S3-230125 | 25/01/2023 10:10:24 | noted |
| S3-230127 | 25/01/2023 11:12:23 | approved |
| S3-230130 | 25/01/2023 11:12:39 | approved |
| S3-230132 | 25/01/2023 14:00:03 | approved |
| S3-230135 | 25/01/2023 14:00:19 | approved |
| S3-230137 | 25/01/2023 10:54:29 | approved |
| S3-230138 | 25/01/2023 10:54:31 | approved |
| S3-230139 | 25/01/2023 14:00:29 | noted |
| S3-230140 | 25/01/2023 11:12:13 | approved |
| S3-230142 | 25/01/2023 10:54:40 | approved |
| S3-230144 | 25/01/2023 10:54:17 | noted |
| S3-230145 | 23/01/2023 15:15:15 | approved |
| S3-230146 | 23/01/2023 15:15:16 | approved |
| S3-230147 | 23/01/2023 15:15:21 | approved |
| S3-230148 | 23/01/2023 15:15:22 | approved |
| S3-230149 | 25/01/2023 10:52:32 | noted |
| S3-230150 | 25/01/2023 10:52:33 | noted |
| S3-230152 | 25/01/2023 10:52:46 | noted |
| S3-230153 | 25/01/2023 10:52:50 | noted |
| S3-230156 | 25/01/2023 10:06:24 | noted |
| S3-230158 | 23/01/2023 15:49:36 | approved |
| S3-230159 | 23/01/2023 15:49:41 | approved |
| S3-230162 | 23/01/2023 15:58:18 | approved |
| S3-230164 | 23/01/2023 15:58:26 | noted |
| S3-230166 | 25/01/2023 10:42:04 | noted |
| S3-230167 | 25/01/2023 10:42:09 | noted |
| S3-230168 | 25/01/2023 10:42:16 | noted |
| S3-230169 | 25/01/2023 10:42:16 | noted |
| S3-230171 | 25/01/2023 10:42:29 | noted |
| S3-230173 | 23/01/2023 16:01:21 | noted |
| S3-230176 | 23/01/2023 16:02:36 | noted |
| S3-230177 | 23/01/2023 16:04:15 | noted |
| S3-230178 | 23/01/2023 16:04:13 | noted |
| S3-230180 | 25/01/2023 09:16:37 | available |
| S3-230181 | 25/01/2023 09:16:00 | available |
| S3-230182 | 25/01/2023 10:09:36 | noted |
| S3-230183 | 25/01/2023 10:09:51 | noted |
| S3-230184 | 25/01/2023 10:06:30 | noted |
| S3-230187 | 23/01/2023 14:23:39 | noted |
| S3-230188 | 23/01/2023 14:51:04 | noted |
| S3-230189 | 23/01/2023 15:45:04 | noted |
| S3-230191 | 23/01/2023 14:23:44 | noted |
| S3-230192 | 23/01/2023 15:50:06 | approved |
| S3-230194 | 25/01/2023 08:26:55 | approved |
| S3-230195 | 25/01/2023 08:26:58 | approved |
| S3-230197 | 23/01/2023 15:14:31 | noted |
| S3-230198 | 23/01/2023 15:16:24 | approved |
| S3-230199 | 23/01/2023 15:16:28 | approved |
| S3-230200 | 23/01/2023 15:16:42 | noted |
| S3-230201 | 23/01/2023 16:00:52 | noted |
| S3-230202 | 23/01/2023 15:48:44 | available |
| S3-230203 | 23/01/2023 15:45:24 | available |
| S3-230205 | 25/01/2023 08:47:10 | available |
| S3-230207 | 23/01/2023 14:23:47 | noted |
| S3-230212 | 23/01/2023 14:23:52 | noted |
| S3-230213 | 23/01/2023 15:50:36 | approved |
| S3-230215 | 23/01/2023 14:23:58 | noted |
| S3-230216 | 23/01/2023 14:50:30 | noted |
| S3-230217 | 25/01/2023 10:11:12 | approved |
| S3-230219 | 23/01/2023 14:24:03 | noted |
| S3-230225 | 23/01/2023 15:50:48 | approved |
| S3-230226 | 23/01/2023 15:47:40 | approved |
| S3-230227 | 23/01/2023 15:47:40 | approved |
| S3-230228 | 23/01/2023 15:46:43 | available |
| S3-230229 | 23/01/2023 15:48:54 | available |
| S3-230235 | 23/01/2023 14:51:13 | noted |
| S3-230236 | 25/01/2023 10:09:58 | approved |
| S3-230238 | 25/01/2023 10:10:00 | approved |
| S3-230241 | 23/01/2023 15:18:15 | approved |
| S3-230242 | 23/01/2023 15:18:17 | approved |
| S3-230243 | 23/01/2023 15:18:20 | approved |
| S3-230244 | 23/01/2023 15:45:40 | available |
| S3-230246 | 25/01/2023 08:47:25 | noted |
| S3-230248 | 25/01/2023 08:48:35 | noted |
| S3-230249 | 23/01/2023 16:05:25 | noted |
| S3-230250 | 23/01/2023 16:05:51 | noted |
| S3-230251 | 25/01/2023 14:03:02 | approved |
| S3-230252 | 25/01/2023 14:03:03 | noted |
| S3-230253 | 23/01/2023 15:13:12 | revised |
| S3-230262 | 23/01/2023 15:17:26 | noted |
| S3-230264 | 23/01/2023 15:44:46 | available |
| S3-230265 | 23/01/2023 15:46:01 | noted |
| S3-230267 | 23/01/2023 14:31:15 | approved |
| S3-230269 | 23/01/2023 16:00:27 | noted |
| S3-230270 | 23/01/2023 15:15:26 | approved |
| S3-230271 | 23/01/2023 15:16:15 | approved |
| S3-230272 | 25/01/2023 10:06:37 | noted |
| S3-230273 | 25/01/2023 10:06:41 | noted |
| S3-230275 | 23/01/2023 15:14:37 | noted |
| S3-230276 | 23/01/2023 16:04:50 | noted |
| S3-230277 | 25/01/2023 09:41:20 | approved |
| S3-230278 | 25/01/2023 09:41:24 | approved |
| S3-230279 | 25/01/2023 09:41:26 | approved |
| S3-230280 | 25/01/2023 09:41:27 | approved |
| S3-230281 | 25/01/2023 09:16:12 | available |
| S3-230282 | 25/01/2023 09:16:48 | available |
| S3-230283 | 25/01/2023 09:17:50 | available |
| S3-230284 | 25/01/2023 09:41:13 | approved |
| S3-230286 | 23/01/2023 16:09:28 | noted |
| S3-230288 | 23/01/2023 15:51:04 | noted |
| S3-230289 | 23/01/2023 15:51:21 | noted |
| S3-230290 | 25/01/2023 08:35:43 | noted |
| S3-230291 | 23/01/2023 15:17:18 | noted |
| S3-230292 | 23/01/2023 14:32:59 | approved |
| S3-230293 | 23/01/2023 14:33:02 | approved |
| S3-230294 | 23/01/2023 14:22:22 | noted |
| S3-230295 | 23/01/2023 14:33:09 | noted |
| S3-230296 | 23/01/2023 14:33:13 | noted |
| S3-230297 | 23/01/2023 14:33:18 | noted |
| S3-230299 | 23/01/2023 14:19:15 | available |
| S3-230301 | 25/01/2023 10:06:00 | noted |
| S3-230302 | 25/01/2023 10:52:54 | noted |
| S3-230303 | 23/01/2023 14:15:28 | noted |
| S3-230305 | 23/01/2023 15:59:53 | noted |
| S3-230306 | 23/01/2023 15:59:57 | noted |
| S3-230307 | 23/01/2023 15:58:02 | noted |
| S3-230308 | 23/01/2023 15:58:05 | noted |
| S3-230310 | 23/01/2023 14:21:09 | noted |
| S3-230313 | 25/01/2023 14:00:47 | noted |
| S3-230314 | 25/01/2023 14:00:40 | noted |
| S3-230315 | 25/01/2023 14:01:28 | noted |
| S3-230316 | 23/01/2023 14:31:55 | revised |
| S3-230317 | 25/01/2023 14:01:46 | noted |
| S3-230318 | 25/01/2023 08:45:35 | approved |
| S3-230321 | 25/01/2023 08:46:02 | available |
| S3-230322 | 25/01/2023 08:48:10 | available |
| S3-230323 | 25/01/2023 08:46:08 | noted |
| S3-230324 | 25/01/2023 08:48:21 | noted |
| S3-230325 | 23/01/2023 15:13:48 | noted |
| S3-230326 | 23/01/2023 15:16:34 | noted |
| S3-230332 | 23/01/2023 15:51:12 | noted |
| S3-230333 | 23/01/2023 15:47:08 | available |
| S3-230336 | 25/01/2023 10:53:06 | noted |
| S3-230340 | 23/01/2023 15:19:55 | noted |
| S3-230341 | 23/01/2023 15:18:30 | noted |
| S3-230350 | 23/01/2023 14:50:38 | noted |
| S3-230351 | 23/01/2023 14:51:25 | noted |
| S3-230352 | 23/01/2023 14:51:40 | noted |
| S3-230354 | 25/01/2023 10:06:06 | noted |
| S3-230355 | 25/01/2023 10:06:10 | noted |
| S3-230356 | 23/01/2023 14:19:29 | available |
| S3-230357 | 23/01/2023 14:19:38 | available |
| S3-230358 | 25/01/2023 10:06:48 | noted |
| S3-230360 | 25/01/2023 10:08:45 | noted |
| S3-230363 | 25/01/2023 10:06:55 | noted |
| S3-230364 | 25/01/2023 10:08:56 | noted |
| S3-230365 | 25/01/2023 10:09:02 | noted |
| S3-230368 | 25/01/2023 14:02:25 | noted |
| S3-230369 | 25/01/2023 14:02:05 | noted |
| S3-230370 | 25/01/2023 10:42:33 | noted |
| S3-230371 | 25/01/2023 10:42:39 | noted |
| S3-230372 | 25/01/2023 10:11:04 | noted |
| S3-230373 | 25/01/2023 10:41:33 | approved |
| S3-230374 | 23/01/2023 15:15:47 | noted |
| S3-230376 | 23/01/2023 15:14:42 | noted |
| S3-230377 | 23/01/2023 15:47:19 | available |
| S3-230378 | 23/01/2023 15:49:19 | available |
| S3-230379 | 23/01/2023 15:51:46 | approved |
| S3-230380 | 23/01/2023 15:48:00 | approved |
| S3-230381 | 23/01/2023 15:51:51 | approved |
| S3-230382 | 25/01/2023 08:46:19 | approved |
| S3-230383 | 25/01/2023 08:46:19 | approved |
| S3-230384 | 25/01/2023 08:46:20 | approved |
| S3-230386 | 23/01/2023 15:59:07 | approved |
| S3-230387 | 23/01/2023 16:05:32 | noted |
| S3-230388 | 23/01/2023 16:05:59 | noted |
| S3-230390 | 23/01/2023 16:03:18 | noted |
| S3-230392 | 23/01/2023 14:49:31 | noted |
| S3-230393 | 23/01/2023 14:49:34 | noted |
| S3-230396 | 23/01/2023 14:49:50 | noted |
| S3-230397 | 23/01/2023 14:49:55 | noted |
| S3-230399 | 23/01/2023 14:50:49 | noted |
| S3-230400 | 23/01/2023 14:51:32 | noted |
| S3-230401 | 23/01/2023 14:51:47 | noted |
| S3-230402 | 23/01/2023 15:13:04 | noted |
| S3-230403 | 25/01/2023 10:09:44 | approved |
| S3-230404 | 25/01/2023 10:09:23 | approved |
| S3-230406 | 25/01/2023 10:51:51 | approved |
| S3-230407 | 25/01/2023 10:51:54 | noted |
| S3-230408 | 25/01/2023 10:52:08 | available |
| S3-230409 | 25/01/2023 08:31:46 | approved |
| S3-230410 | 25/01/2023 08:31:49 | noted |
| S3-230411 | 23/01/2023 15:16:54 | approved |
| S3-230413 | 25/01/2023 08:39:39 | approved |
| S3-230414 | 25/01/2023 10:52:16 | noted |
| S3-230415 | 25/01/2023 10:52:18 | noted |
| S3-230416 | 23/01/2023 16:09:32 | noted |
| S3-230418 | 25/01/2023 08:26:26 | approved |
| S3-230419 | 25/01/2023 08:26:29 | noted |
| S3-230420 | 23/01/2023 15:14:02 | noted |
| S3-230424 | 25/01/2023 08:26:34 | noted |
| S3-230425 | 25/01/2023 15:10:26 | approved |
| S3-230426 | 23/01/2023 16:08:34 | approved |
| S3-230427 | 23/01/2023 16:08:39 | approved |
| S3-230428 | 25/01/2023 14:05:28 | approved |
| S3-230429 | 25/01/2023 08:39:54 | approved |
| S3-230430 | 23/01/2023 14:18:27 | approved |
| S3-230431 | 25/01/2023 08:40:00 | approved |
| S3-230432 | 25/01/2023 08:40:03 | approved |
| S3-230433 | 25/01/2023 09:17:00 | approved |
| S3-230434 | 25/01/2023 09:18:00 | approved |
| S3-230435 | 23/01/2023 14:22:48 | approved |
| S3-230436 | 23/01/2023 14:22:53 | approved |
| S3-230437 | 23/01/2023 14:22:58 | approved |
| S3-230438 | 23/01/2023 14:51:56 | approved |
| S3-230439 | 23/01/2023 16:09:20 | approved |
| S3-230440 | 23/01/2023 15:50:57 | approved |
| S3-230441 | 25/01/2023 14:20:00 | approved |
| S3-230442 | 23/01/2023 15:18:10 | approved |
| S3-230443 | 23/01/2023 15:19:15 | approved |
| S3-230444 | 25/01/2023 08:47:20 | approved |
| S3-230445 | 25/01/2023 08:47:31 | approved |
| S3-230446 | 23/01/2023 16:08:59 | approved |
| S3-230447 | 23/01/2023 15:19:47 | approved |
| S3-230448 | 23/01/2023 15:20:06 | approved |
| S3-230449 | 25/01/2023 09:15:33 | approved |
| S3-230450 | 25/01/2023 09:16:21 | approved |
| S3-230451 | 23/01/2023 16:02:23 | approved |
| S3-230452 | 23/01/2023 16:02:26 | approved |
| S3-230453 | 25/01/2023 08:46:32 | approved |
| S3-230454 | 23/01/2023 14:31:10 | approved |
| S3-230455 | 23/01/2023 14:31:20 | approved |
| S3-230456 | 23/01/2023 15:17:48 | approved |
| S3-230457 | 23/01/2023 15:18:54 | approved |
| S3-230458 | 23/01/2023 15:15:36 | approved |
| S3-230459 | 23/01/2023 15:19:36 | approved |
| S3-230460 | 25/01/2023 08:47:38 | approved |
| S3-230461 | 25/01/2023 08:47:42 | approved |
| S3-230462 | 23/01/2023 15:58:10 | approved |
| S3-230463 | 23/01/2023 14:21:36 | approved |
| S3-230465 | 25/01/2023 14:03:52 | approved |
| S3-230466 | 25/01/2023 10:52:40 | approved |
| S3-230467 | 25/01/2023 10:07:09 | approved |
| S3-230468 | 25/01/2023 10:06:18 | approved |
| S3-230469 | 23/01/2023 15:59:36 | approved |
| S3-230470 | 23/01/2023 15:49:45 | approved |
| S3-230471 | 23/01/2023 15:49:54 | approved |
| S3-230472 | 23/01/2023 15:58:22 | approved |
| S3-230473 | 25/01/2023 10:41:59 | approved |
| S3-230474 | 25/01/2023 10:42:22 | approved |
| S3-230475 | 23/01/2023 16:01:16 | approved |
| S3-230476 | 23/01/2023 16:01:28 | approved |
| S3-230477 | 23/01/2023 16:01:33 | approved |
| S3-230478 | 23/01/2023 14:23:29 | approved |
| S3-230479 | 23/01/2023 14:23:34 | approved |
| S3-230480 | 23/01/2023 16:09:02 | approved |
| S3-230481 | 25/01/2023 08:27:02 | approved |
| S3-230482 | 23/01/2023 15:59:15 | approved |
| S3-230484 | 23/01/2023 15:47:29 | approved |
| S3-230485 | 23/01/2023 14:22:37 | approved |
| S3-230486 | 23/01/2023 16:02:51 | approved |
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| S3-230488 | 23/01/2023 15:19:25 | approved |
| S3-230489 | 23/01/2023 15:49:31 | approved |
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| S3-230491 | 25/01/2023 10:10:36 | approved |
| S3-230492 | 23/01/2023 14:23:21 | approved |
| S3-230493 | 25/01/2023 14:01:03 | approved |
| S3-230495 | 23/01/2023 15:50:11 | approved |
| S3-230496 | 25/01/2023 14:00:58 | approved |
| S3-230497 | 23/01/2023 14:30:36 | approved |
| S3-230498 | 23/01/2023 14:30:43 | approved |
| S3-230499 | 23/01/2023 14:30:49 | approved |
| S3-230500 | 23/01/2023 14:30:57 | approved |
| S3-230501 | 23/01/2023 14:31:02 | approved |
| S3-230502 | 25/01/2023 10:08:15 | approved |
| S3-230503 | 25/01/2023 10:08:22 | approved |
| S3-230504 | 25/01/2023 10:08:26 | approved |
| S3-230505 | 23/01/2023 15:50:15 | approved |
| S3-230506 | 23/01/2023 15:44:53 | approved |
| S3-230507 | 25/01/2023 14:01:09 | approved |
| S3-230508 | 23/01/2023 15:50:21 | approved |
| S3-230509 | 23/01/2023 15:50:24 | approved |
| S3-230510 | 23/01/2023 15:45:48 | approved |
| S3-230511 | 23/01/2023 15:50:28 | approved |
| S3-230512 | 23/01/2023 15:50:42 | approved |
| S3-230513 | 25/01/2023 14:03:32 | approved |
| S3-230514 | 25/01/2023 10:41:19 | approved |
| S3-230515 | 23/01/2023 16:01:42 | approved |
| S3-230516 | 25/01/2023 10:41:23 | approved |
| S3-230517 | 23/01/2023 16:03:32 | approved |
| S3-230518 | 23/01/2023 16:03:35 | approved |
| S3-230520 | 23/01/2023 16:02:06 | approved |
| S3-230521 | 25/01/2023 08:40:20 | approved |
| S3-230522 | 23/01/2023 16:02:13 | approved |
| S3-230523 | 25/01/2023 08:46:47 | approved |
| S3-230524 | 23/01/2023 15:19:04 | approved |
| S3-230525 | 23/01/2023 15:18:02 | approved |
| S3-230526 | 23/01/2023 16:09:40 | approved |
| S3-230527 | 25/01/2023 10:05:40 | approved |
| S3-230528 | 23/01/2023 14:48:46 | approved |
| S3-230529 | 25/01/2023 14:03:45 | approved |
| S3-230530 | 25/01/2023 14:04:05 | approved |
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| S3-230532 | 25/01/2023 15:10:17 | approved |
| S3-230533 | 23/01/2023 15:15:55 | approved |
| S3-230534 | 23/01/2023 16:03:13 | approved |
| S3-230535 | 23/01/2023 16:03:23 | approved |
| S3-230536 | 23/01/2023 14:48:50 | approved |
| S3-230537 | 23/01/2023 14:48:55 | approved |
| S3-230538 | 23/01/2023 15:51:31 | approved |
| S3-230539 | 23/01/2023 15:51:35 | approved |
| S3-230540 | 23/01/2023 15:47:48 | approved |
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| S3-230542 | 25/01/2023 10:53:00 | approved |
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| S3-230544 | 23/01/2023 16:03:00 | approved |
| S3-230545 | 23/01/2023 16:03:03 | approved |
| S3-230546 | 23/01/2023 15:18:42 | approved |
| S3-230548 | 23/01/2023 14:24:10 | approved |
| S3-230549 | 23/01/2023 14:24:18 | approved |
| S3-230550 | 23/01/2023 14:49:03 | approved |
| S3-230551 | 23/01/2023 14:49:07 | approved |
| S3-230552 | 23/01/2023 14:49:11 | approved |
| S3-230553 | 23/01/2023 14:49:15 | approved |
| S3-230554 | 23/01/2023 14:49:17 | approved |
| S3-230555 | 25/01/2023 10:09:28 | approved |
| S3-230556 | 23/01/2023 14:49:39 | approved |
| S3-230557 | 23/01/2023 14:49:42 | approved |
| S3-230558 | 23/01/2023 14:50:00 | approved |
| S3-230559 | 25/01/2023 10:08:37 | approved |
| S3-230560 | 25/01/2023 10:08:50 | approved |
| S3-230561 | 25/01/2023 10:09:07 | approved |
| S3-230562 | 25/01/2023 10:10:09 | approved |
| S3-230563 | 25/01/2023 14:01:58 | approved |
| S3-230566 | 25/01/2023 10:05:49 | approved |
| S3-230567 | 25/01/2023 15:10:05 | approved |
| S3-230568 | 25/01/2023 08:39:29 | approved |
| S3-230569 | 25/01/2023 08:33:32 | approved |
| S3-230570 | 25/01/2023 14:05:15 | approved |
| S3-230571 | 23/01/2023 15:46:14 | approved |
| S3-230572 | 23/01/2023 15:57:39 | approved |
| S3-230573 | 25/01/2023 14:05:09 | approved |
| S3-230574 | 23/01/2023 15:17:36 | approved |
| S3-230575 | 25/01/2023 15:10:33 | approved |
| S3-230576 | 25/01/2023 10:53:44 | available |
| S3-230577 | 25/01/2023 11:12:29 | approved |
| S3-230578 | 25/01/2023 11:12:32 | approved |
| S3-230579 | 25/01/2023 11:12:49 | approved |
| S3-230580 | 25/01/2023 14:00:07 | approved |
| S3-230581 | 25/01/2023 14:00:12 | approved |
| S3-230582 | 25/01/2023 14:00:23 | approved |
| S3-230583 | 25/01/2023 14:01:20 | approved |
| S3-230584 | 26/01/2023 10:35:47 | approved |
| S3-230585 | 24/01/2023 13:03:07 | revised |
| S3-230586 | 23/01/2023 15:13:13 | approved |
| S3-230587 | 24/01/2023 09:58:49 | approved |
| S3-230588 | 25/01/2023 14:01:36 | approved |

## Annex B: Lists of liaisons

### B1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-230005 |  | LS on U2N relay direct link setup failure due to RSC mismatch or integrity failure | C1-226908 | postponed | (none) |
| S3-230006 |  | Reply LS on the progress and open issues for NPN enhancements in Rel-18 | C1-227157 | noted | (none) |
| S3-230007 |  | LS on SL positioning groupcast and broadcast | R2-2213142 | replied to | S3-230430 |
| S3-230008 |  | LS on user consent of Non-public Network | R3-226006 | postponed | ???? |
| S3-230009 |  | Reply LS on Progress and open issues for NPN enhancements in Rel-18 | S1-223540 | noted | (none) |
| S3-230010 |  | Reply LS on the impact of MSK update on MBS multicast session update procedure | S2-2209287 | postponed | (none) |
| S3-230011 |  | LS on impact of URSP rule enforcement report to 5GC | S2-2209327 | postponed | (none) |
| S3-230012 |  | Reply LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors | S2-2210943 | noted | (none) |
| S3-230013 |  | Slice based Steering of Roaming | S2-2211204 | noted | (none) |
| S3-230014 |  | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-223487 | noted | (none) |
| S3-230015 |  | LS reply on SNAAPP requirements clarifications | S6-223488 | noted | (none) |
| S3-230016 |  | LS reply on CAPIF authorization roles related to FS\_SNAAPP | S6-223489 | noted | (none) |
| S3-230017 |  | LS on the use of a non-network defined identifier for UE identification | S6-223558 | postponed | (none) |
| S3-230018 |  | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-223586 | replied to | S3-230463 |

### B2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-230430 | Reply LS to R2-2213142 on SL positioning | RAN2,SA2 | - | S3-230007 |
| S3-230462 | MEC - LS to SA2 on enforcement of AF specific identifier | SA2 | - |  |
| S3-230463 | Reply LS to S3-230018/S6-223586 on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | SA6 | SA2 | S3-230018 |
| S3-230491 | LS on clarification on user consent for AIML | SA2 | - |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-230425 | 33.887 | 0.5.0 | Draft 33.887 Study on Security aspects for 5WWC Phase 2 |
| S3-230428 | 33.875 | 1.6.0 | TR 33.875-160 |
| S3-230441 | 33.891 | 0.5.0 | Draft TR 33.891 |
| S3-230464 | 33.883 | 0.5.0 | Draft TR 33.883 |
| S3-230465 | 33.886 | 0.3.0 | Draft TR 33.886 for eNS3 |
| S3-230483 | 33.858 | 0.4.0 | Draft TR 33.858 v0.4.0 |
| S3-230494 | 33.898 | 0.4.0 | Draft TR 33.898 v0.4.0 |
| S3-230519 | 33.884 | 0.4.0 | draft TR 33.884 |
| S3-230529 | 33.882 | 0.5.0 | TR 33.882 v0.5.0 |
| S3-230530 | 33.896 | 0.5.0 | TR 33.896v050 |
| S3-230532 | 33.741 | 0.5.0 | TR 33.741v050 |
| S3-230547 | 33.738 | 0.5.0 | draft TR 33.738 0.5.0 |
| S3-230564 | 33.893 | 0.5.0 | draft TR 33.893 v0.5.0 |
| S3-230565 | 33.700-28 | 0.3.0 | draft TR 33.700-28 v0.3.0 |
| S3-230567 | 33.740 | 0.5.0 | Draft TR 33.740 |
| S3-230570 | 33.890 | 0.5.0 | Draft TR 33.390 v0.5.0 |
| S3-230573 | 33.739 | 0.5.0 | Draft TR 33.739 v0.5.0 |
| S3-230575 | 33.877 | 0.5.0 | Draft TR 33.877 v0.5.0 Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN |
| S3-230584 | 33.737 | 0.5.0 | Draft TR 33.737 v0.5.0 |

## Annex D: List of participants

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Organization Represented | Organization Represented Category Code |
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| Mr. | Zhang | Yizhong | Delegate | vivo Mobile Communication (S) | vivo Mobile Communication Co., | CCSA |
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| Mr. | Zhou | Wei | Delegate | CATT | CATT | CCSA |
| Mr. | Zhu | Chunhui | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software | CCSA |
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## Annex E: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#110 | 2023-02-20 | 2023-02-24 | Athens | GR | S3-110 |
| SA3#88-LI-e-b | 2023-02-21 | 2023-02-23 | Online |  | S3-88-LI-e-b |
| SA3#110-bis - CANCELLED | 2023-04-17 | 2023-04-21 | TBD | US | S3-110 |
| SA3#110-bis-e | 2023-04-17 | 2023-04-21 | Online |  | S3-110 |
| SA3#89-LI | 2023-04-24 | 2023-04-28 | Washington DC | US | S3-89-LI |
| SA3#111 | 2023-05-22 | 2023-05-26 | Berlin | Germany | S3-111 |
| SA3#90-LI | 2023-06-26 | 2023-06-30 | EU | EU | S3-90-LI |
| SA3#112 | 2023-08-14 | 2023-08-18 | Gothemburg | Sweden | S3-112 |
| SA3#113 | 2023-11-06 | 2023-11-10 | Chicago | US | S3-113 |
| SA3#114 | 2024-01-22 | 2024-01-26 | TBD |  | S3-114 |
| SA3#115 | 2024-02-26 | 2024-03-01 | EU | EU | S3-115 |
| SA3#116-(option 1) | 2024-05-13 | 2024-05-17 | Korea | KR | S3-116 |
| SA3#116-(option 2) | 2024-05-20 | 2024-05-24 | TBD |  | S3-116 |
| SA3#117 | 2024-08-26 | 2024-08-30 | EU | EU | S3-117 |
| SA3#118 | 2024-10-07 | 2024-10-11 | India | IN | S3-118 |
| SA3#119 | 2024-11-11 | 2024-11-15 | US TBC | US | S3-119 |