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| **Agenda** | **Topic** | **TDoc** | **Title** | **Source** | **Type** | **Notes** | **Decision** | **Replaced-by** |
| 1 | Agenda and Meeting Objectives | S3‑222450 | Agenda | SA WG3 Chair | agenda |  | available |  |
|  |  | S3‑222451 | Process for SA3#108e-AdHoc | SA WG3 Chair | other | >>CC\_1<<  Chair emphasizes the deadline, esp. 1st round objection, to avoid similar concerns as in last meeting.  >>CC\_1<< | available |  |
|  |  | S3‑222453 | Process and agenda planning for SA3#108e-AdHoc | SA WG3 Chair | other |  | available |  |
| 3 | Reports and Liaisons from other Groups (related to Rel-18 Studies) | S3‑222455 | LS on NCR Solutions | R3-225253 | LS in | >>CC\_1<<  [ZTE] presents  519, 627 and 801 are related draft reply LS.  >>CC\_1<< | available |  |
|  |  | S3‑222519 | Reply LS on NCR Solutions | Huawei, HiSilicon | LS out | >>CC\_1<<  [Huawei] presents. >>CC\_1<< | available |  |
|  |  | S3‑222627 | Draft Reply LS on NCR Solutions | ZTE Corporation,China Mobile | LS out | >>CC\_1<<  [ZTE] presents  [Intel] supports in general but not for the reply for solution 2.  [Huawei] comments NCR is very similar with IAB so it could reuse IAB security procedure.  [ZTE] comments.  [Nokia] comments NCR is acting as UE.  Chair requests ZTE to hold the pen to find a compromised way to reply, and request to complete the work in this or next meeting.  >>CC\_1<< | available |  |
|  |  | S3‑222801 | [DRAFT] Reply LS on NCR solutions | Ericsson | LS out | >>CC\_1<<  [Ericsson] presents. >>CC\_1<< | available |  |
|  |  | S3‑222460 | LS on protection of the URSP rules from HPLMN | S2-2207501 | LS in | >>CC\_1<<  [Ericsson] presents.  753, 902, 903 are related draft reply LS.  [IDCC] comments LS in needs a clear answer, should answer yes or no, rather asking them for clarification.  [QC] comments to respond there is no security issue and it is sufficient.  [Nokia] has different opinion, needs to have further study.  [Huawei] comments SA3 should answer the question rather than to ask SA2 more questions.  [Lenovo] has similar view with Nokia.  Chair asks what scope it should be if it needs more study.  [Lenovo] replies.  [QC] replies to Lenovo.  Chair requests to have more discussion and not encourage more SID/WID for this, requests Ericsson to hold the pen to draft reply LS. >>CC\_1<< | available |  |
|  |  | S3‑222753 | Reply to LS on protection of the URSP rules from HPLMN | Nokia, Nokia Shanghai Bell | LS out | >>CC\_1<<  [Nokia] presents.  >>CC\_1<< | available |  |
|  |  | S3‑222902 | Protection of URSP rules from HPLMN | Ericsson | discussion | >>CC\_1<< >>CC\_1<< | available |  |
|  |  | S3‑222903 | Draft LS reply Protection of URSP rules from HPLMN | Ericsson | LS out | >>CC\_1<<  [Ericsson] presents.  >>CC\_1<< | available |  |
|  |  | S3‑222463 | Identifier availability for Lawful Interception during Inter-PLMN handover | s3i220485 | LS in | >>CC\_1<<  [NTAC] presents and proposes to note. >>CC\_1<< | available |  |
|  |  | S3‑222466 | LS on Security Requirements for the MSGin5G Service | S6-222343 | LS in | >>CC\_1<<  [CMCC] presents.  525 is related draft reply LS.  >>CC\_1<< | available |  |
|  |  | S3‑222525 | reply LS on Security Requirements for the MSGin5G Service | China Mobile | LS out | >>CC\_1<<  [CMCC] presents draft reply and future work plan.  Chair asks to keep continue discussion via email.  >>CC\_1<< | available |  |
|  |  | S3‑222560 | Reply LS on the user consent for trace reporting | R3-225250 | LS in | >>CC\_1<<  [Huawei] presents. >>CC\_1<< | available |  |
|  |  | S3‑222654 | Reply LS on the User Consent for Trace Reportings | Huawei, HiSilicon | LS out | [Ericsson]: Clarification needed, is the intention to use user consent as the user permission to make the UE available to measurement,  >>CC\_1<<  [Huawei] presents.  [Ericsson] comments on question 2 reply is not correct. And for question 1, .... question 2 is not need to be covered in 18. question 1  [Huawei] replies in R18 it covers RAN side. It should be in scope of R18. and could not catch the question 1.  [Nokia] comments.  Chair asks Huawei to hold the pen and to continue the discussion. >>CC\_1<< | available |  |
| 4 | Work areas (Rel-18) |  |  |  |  |  |  |  |
| 4.1 | New WID on Security Assurance Specification for Management Function (MnF) |  |  |  |  |  |  |  |
| 4.2 | New WID on SECAM and SCAS for 3GPP virtualized network products |  |  |  |  |  |  |  |
| 4.3 | New WID on Mission critical security enhancements phase 3 |  |  |  |  |  |  |  |
| 4.4 | New WID on Security Assurance Specification (SCAS) for 5G Rel-17 Features |  |  |  |  |  |  |  |
| 4.5 | New WID on Security Assurance Specification for the Authentication and Key Management for Applications (AKMA) Anchor Function Function (AAnF) |  |  |  |  |  |  |  |
| 4.6 | New WID on SCAS for split-gNB product classes |  |  |  |  |  |  |  |
| 4.7 | Service Based Architecture (Rel-15/16/17) |  |  |  |  |  |  |  |
| 4.8 | Security Aspects of Proximity based services in 5GS ProSe (Rel-17) |  |  |  |  |  |  |  |
| 4.9 | All topics (Rel-15/16/17/18 ) |  |  |  |  |  |  |  |
| 5 | Rel-18 Studies |  |  |  |  |  |  |  |
| 5.1 | Study on 5G security enhancement against false base stations | S3‑222851 | Updates to Solution#7 SI verification using Digital Signatures | Samsung, Apple, Deutsche Telekom | pCR |  | available |  |
|  |  | S3‑222852 | Resolving EN of solution#7 (TR 33.809) | Samsung, Apple, Deutsche Telekom | pCR |  | available |  |
|  |  | S3‑222853 | Conclusion for key issue#2 | Samsung, Intel, Apple, Deutsche Telekom | pCR | [Nokia]: requests clarification, because of missing concept description related to trust-anchor enrolment, revocation and backward compatibility  [Samsung]: provides clarification to Nokia | available |  |
|  |  | S3‑222687 | Addressing the editor’s note in 6.27.2.1.1 of Sol#27 | CableLabs | pCR | [Nokia]: requests clarification, on details related to revocation, provision/enrolment of the trust-anchor | available |  |
|  |  | S3‑222688 | Addressing EN on NR Repeater in 6.27.2.2.4 of Sol#27 | CableLabs | pCR |  | available |  |
|  |  | S3‑222689 | Addressing the editor’s note in 6.27.2.2.1of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222541 | Evaluation of solution #4 | Huawei, HiSilicon, Apple, Philips International B.V. | pCR | [Nokia]: requests clarification, because there is a disagreement on the presented power consumption evaluation | available |  |
|  |  | S3‑222542 | Evaluation of solution #25 | Huawei, HiSilicon, Philips International B.V. | pCR | [Nokia]: requests clarification, on the presented Step8 ‘The FBS (Fake UE) unknowingly forwards to the gNB.’ | available |  |
|  |  | S3‑222543 | Conclusion for KI#3 | Huawei, HiSilicon, Apple, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222544 | Update to solution #25 | Huawei, HiSilicon, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222762 | An update on the evaluation of solution #4 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222454 | Reply LS on authenticity and replay protection of system information | R2-2208985 | LS in |  | available |  |
|  |  | S3‑222475 | Reply LS on authenticity and replay protection of system information | Huawei, HiSilicon | LS out | [Apple] provides comments to both 2475 and 2850. Suggest to merge, and fine to use either one as the basis.  [Philips] provides comments to 2475 and 2850. Suggest merging and taking 2475 as basis.  [Samsung]: provides clarification. Fine with merging S3-222475 in S3-222850. Propose to take S3-222850 as the baseline doc for the reply LS.  [Nokia]: is providing feedback, and agrees on using S3-222850 as basis and is providing feedback on Q1 and Q2  >>CC\_1<<  [Huawei] presents.  [VF] comments  [Samsung] clarifies.  [Apple] proposes to decide which contribution are used as baseline for future discussion.  [QC] comments, needs to have solution first then reply. Consider it has no possible to answer in this meeting, proposes to postpone.  [Docomo] has concern on counter bits number. It may be limited.  [Samsung] clarifies.  Chair comments the potential solution may have big impact on many aspects. Chair asks to have progress. Asks whether it is helpful to have an offline call on specifically on SIB protection topic.  [Samsung] is positive to have offline call.  [Huawei] is positive.  Chair announce an offline call tomorrow.  >>CC\_1<< | available |  |
|  |  | S3‑222850 | Reply LS on authenticity and replay protection of system information | Samsung, Deutsche Telekom | LS out | [Apple] provides comments to both 2475 and 2850. Suggest to merge, and fine to use either one as the basis.  [Philips] provides comments to 2475 and 2850. Suggest merging and taking 2475 as basis.  [Samsung]: provides clarification. Fine with merging S3-222475. Propose to take S3-222850 as the baseline doc for the reply LS.  >>CC\_1<<  [Samsung] presents.  >>CC\_1<< | available |  |
|  |  | S3‑222655 | 5GFBS - Mapping of solutions and key issues | Apple | pCR |  | available |  |
| 5.2 | Study on Security Impacts of Virtualisation | S3‑222537 | New solution on boot time attestation at 3GPP function level | Huawei, HiSilicon | pCR | [Ericsson]: Terminology in this solution should be clarified and lined with the IETF RATS e.g. report should be evidence. | available |  |
|  |  | S3‑222600 | Solution #4 – Evaluation and addressing EN | MITRE Corporation | pCR |  | available |  |
|  |  | S3‑222601 | Solution #7 – Evaluation and addressing EN | MITRE Corporation | pCR | [Ericsson]: Clarification needed | available |  |
|  |  | S3‑222683 | Address EN on PACF and MANO Communication | Johns Hopkins University APL, US National Security Agency, CISA ECD | pCR |  | available |  |
|  |  | S3‑222684 | Address EN on verifying attestation results for NRF and PACF | Johns Hopkins University APL, US National Security Agency, CISA ECD | pCR |  | available |  |
| 5.3 | Study on Security Aspects of Proximity Based Services in 5GS Phase 2 | S3‑222462 | Reply LS on 5G ProSe security open items | S2-2207838 | LS in | >>CC\_1<<  [CATT] proposes to have content in key issue detail and potential requirement section for each key issue merger.  Chair asks whether this contribution needs to reply or not.  [IDCC] asks no need.  Chair propose to note it after the 1st challenge deadline. >>CC\_1<< | available |  |
|  |  | S3‑222480 | New Key Issue on Security and privacy of switching between two indirect UE-to-Network Relay paths | Huawei, HiSilicon | pCR | >>CC\_1<<  Related with 2833  [Huawei] presents. >>CC\_1<< | available |  |
|  |  | S3‑222481 | New Key Issue on privacy of switching between direct Uu and indirect Layer-2 UE-to-Network Relay paths | Huawei, HiSilicon | pCR | [Ericsson] : Asks questions  [ChinaTelecom] : provide comments and request clarification.  >>CC\_1<<  Rapporteur asks to use 481 as baseline.  [Huawei] presents. >>CC\_1<< | available |  |
|  |  | S3‑222482 | New KI on security of U2NW multi-path connection | Huawei, HiSilicon | pCR | [Ericsson] : asks questions  >>CC\_1<<  4 contributions group (2482, 2582, 2844, 2877) - SA2 key issue 5  [Nokia] comments. It has multiple use scenarios, how to deal with it? keep it alone? Or combined with others?  [IDCC] proposes to use 2844 or 2877 as baseline.  [Huawei] clarifies.  [Oppo] comments it should have only 1 key issue on multipath topic.  Chair asks to use 2844 as baseline.  [Ericsson] comments it needs more time to decide which contribution is baseline.  Chair clarifies the comment can be made for merge document and the base document 2844..  Rapporteur also clarifies the discussion is just about merging way forward, but not decision on content.  >>CC\_1<< | available |  |
|  |  | S3‑222520 | New Key Issue on Security and privacy of path switching between PC5 and Uu | Huawei, HiSilicon | pCR | [Ericsson] : asks questions  >>CC\_1<<  Related with 630, 630  [Huawei] presents.  [KPN] proposes to use one of 3 as baseline, like 520  Chair asks to use 520 as baseline for future discussion. >>CC\_1<< | available |  |
|  |  | S3‑222582 | KI for multi path relaying security | OPPO | pCR |  | available |  |
|  |  | S3‑222609 | New KI on U2U relay protection of remote UE traffic | OPPO | pCR |  | available |  |
|  |  | S3‑222629 | Key issue on Subscription synchronization between PAnF and UDM | ZTE Corporation | pCR | >>CC\_1<<  [ZTE] presents.  [MITRE] supports this key issue. >>CC\_1<< | available |  |
|  |  | S3‑222630 | Key issue on Support direct communication path switching between PC5 and Uu | ZTE Corporation | pCR | >>CC\_1<<  Related with 520, xxx  [ZTE] presents. >>CC\_1<< | available |  |
|  |  | S3‑222792 | New KI: Support for Emergency service over UE-to-Network Relaying | Ericsson | pCR |  | available |  |
|  |  | S3‑222833 | add new key issue for path switching | Nokia, Nokia Shanghai Bell | pCR | >>CC\_1<<  Related with 2480  [Nokia] asks question how to organize key issue merging.  To separate key issue in SA2 as independent key issue, or to keep all related key issues in SA2 as asingle key issue. Nokia prefers latter way forward.  [Huawei] prefers to keep  separate key issues.  [KPN] prefers separate KI as way forward.  [Ericsson] prefers to keep key issue separately.  [IDCC] has same view and comments to Nokia.  >>CC\_1<< | available |  |
|  |  | S3‑222844 | Key Issue for secure ProSe multi-path transmission for UE-to-Network relay | Samsung | pCR |  | available |  |
|  |  | S3‑222877 | Key Issue on security of multi-path transmission for UE-to-Network Relay | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222486 | E2E solution in L3 Relay | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222487 | E2E solution in L2 Relay | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222576 | Solution for U2U relay (model A) discovery security | China Telecom Corporation Ltd. | pCR |  | available |  |
|  |  | S3‑222579 | Solution for U2U Relay (model B) discovery security | China Telecom Corporation Ltd. | pCR |  | available |  |
|  |  | S3‑222585 | Address the ENs in Sol #6 | OPPO | pCR |  | available |  |
|  |  | S3‑222592 | Update TR 33.740 solution#1 | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222593 | Update TR 33.740 solution#2 | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222594 | New Solution for Security of Layer-2 based UE-to-UE Relay | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222595 | New Solution for E2E Authentication with Layer-3 UE-to-UE Relay | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222596 | New Solution for Path Switching with Layer-2 UE-to-UE Relay | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222610 | Solution for secure communication between source and target UEs via U2U relay | OPPO | pCR |  | available |  |
|  |  | S3‑222631 | Solution on Subscription synchronization between PAnF and UDM | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222665 | ProSe - Update solution #10 (EN1) | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222666 | ProSe - Update solution #10 (EN2) | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222667 | ProSe - Update solution #10 (EN3) | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222668 | ProSe - New solution KI#2 and #3 | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222723 | pCR to TR33.740 Centralized discovery key management and U2U relay authorization | CATT | pCR |  | available |  |
|  |  | S3‑222726 | pCR to TR33.740 Distributed discovery key management and U2U relay authorization | CATT | pCR |  | available |  |
|  |  | S3‑222729 | pCR to TR33.740 Solution for U2U Relay discovery message security | CATT | pCR |  | available |  |
|  |  | S3‑222731 | pCR to TR33.740 Solution for UE-to-UE relay security | CATT | pCR |  | available |  |
|  |  | S3‑222763 | A new solution for UE-to-UE Relay discovery message protection for Model A discovery | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222764 | A new solution for UE-to-UE Relay discovery message protection for Model B discovery | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222765 | A new solution for secure PC5 link establishment for UE-to-UE Relay | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222791 | Deleting step 8 and EN about End-to-end IP security in solution #3 | Ericsson | pCR |  | available |  |
|  |  | S3‑222793 | Support Emergency Service over UE-to-Network Relay | Ericsson | pCR |  | available |  |
|  |  | S3‑222794 | Resolve some ENs for Solution3 | Ericsson | pCR |  | available |  |
|  |  | S3‑222795 | Resolve EN for PC5 link setup between U2U and Target UE in Solution3 | Ericsson | pCR |  | available |  |
|  |  | S3‑222796 | Resolve some ENs for Solution4 | Ericsson | pCR |  | available |  |
|  |  | S3‑222797 | Resolve EN for protection of DCR in Solution4 | Ericsson | pCR |  | available |  |
|  |  | S3‑222798 | Deleting step 10 and EN about End-to-end IP security in solution #4 | Ericsson | pCR |  | available |  |
|  |  | S3‑222799 | Resolve EN for Token Provision in Solution4 | Ericsson | pCR |  | available |  |
|  |  | S3‑222800 | Resolve EN for same credentials used for both in-coverage and out-of-coverage mode in Solution 3 | Ericsson | pCR |  | available |  |
|  |  | S3‑222845 | Solution for ProSe multipath transmission for redundant PDUs | Samsung | pCR |  | available |  |
|  |  | S3‑222846 | New Solution for end-to-end security establishment over the UE-to-UE Relay | Samsung | pCR |  | available |  |
|  |  | S3‑222872 | Update to solution #7 and remove the Editor’s Note | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222873 | Update to solution #8 in TR 33.740 | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222874 | Update to solution #9 in TR 33.740 | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222875 | New solution on Network-assisted Security Establishment Procedure for 5G ProSe Layer-3 UE-to-UE Relay | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222876 | New solution on Security Establishment Procedure for 5G ProSe Layer-2 UE-to-UE Relay | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222628 | Add terms and abbreviations to TR 33.740 | ZTE Corporation | pCR |  | available |  |
| 5.4 | Study on privacy of identifiers over radio access | S3‑222928 | Discussion paper for KI #1: Privacy aspects of variable length user identifiers | InterDigital, Inc., AT&T, CableLabs, Convida Wireless, Deutsche Telekom, JHU, Intel, Google, Lenovo, Nokia, NCSC, Oppo, Philips International B.V., US NSA, Verizon, Xiaomi, ZTE | discussion |  | available |  |
|  |  | S3‑222927 | PCR for KI #1: Privacy aspects of variable length user identifiers | InterDigital, Inc., Apple, AT&T, CableLabs, Convida Wireless, Deutsche Telekom, Ericsson, Intel, JHU, Google, Lenovo, Nokia, NCSC, Oppo, Philips International B.V., US NIST, US NSA, Verizon, Xiaomi, ZTE | pCR |  | available |  |
|  |  | S3‑222767 | Applicability of SUPI Type IMSI in KI#1 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222768 | Addition of threats due to EAP in KI#1 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222664 | Updates to Key Issue #2 | Johns Hopkins University APL, US National Security Agency, InterDigital, Apple, CableLabs | pCR |  | available |  |
|  |  | S3‑222822 | Modification to KI details of the KI #2 | Ericsson LM | pCR |  | available |  |
|  |  | S3‑222673 | PrivID - New Key Issue | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222506 | New solution to key issue 1 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222528 | solution\_for\_privacy\_KI#1 | China mobile | pCR |  | available |  |
|  |  | S3‑222559 | New solution for privacy prevention of SUPI in NAI format | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222586 | New solution for Key issue #1 | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑222632 | SUPI padding solution on Key issue #1 | China Southern Power Grid Co., Ltd, ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222696 | New solution on Key issue #1 | China Telecom Corporation Ltd. | pCR |  | available |  |
|  |  | S3‑222769 | Solution for KI#1 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222790 | Solution to address KI#1 | Lenovo | pCR |  | available |  |
|  |  | S3‑222820 | Padding-based solution to the leakage of the length of SUPI through SUCI | Ericsson LM | pCR |  | available |  |
|  |  | S3‑222821 | Hash-based solution to the leakage of the length of SUPI through SUCI | Ericsson LM | pCR |  | available |  |
|  |  | S3‑222570 | PCR for KI #1: Privacy aspects of variable length user identifiers | InterDigital, Inc., Apple, AT&T, CableLabs, Convida Wireless, Deutsche Telekom, Ericsson, Intel, JHU, Google, Lenovo, Nokia, Oppo, Philips International B.V., US NIST, US NSA, Verizon, Xiaomi, ZTE | pCR |  | revised | [S3‑222927](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-10-07_18h15.htm#RANGE!S3-222927) |
|  |  | S3‑222580 | Discussion paper for KI #1: Privacy aspects of variable length user identifiers | InterDigital, Inc., AT&T, CableLabs, Convida Wireless, Deutsche Telekom, JHU, Intel, Google, Lenovo, Nokia, Oppo, Philips International B.V., US NSA, Verizon, Xiaomi, ZTE | discussion |  | revised | [S3‑222928](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-10-07_18h15.htm#RANGE!S3-222928) |
|  |  | S3‑222663 | Updates to Key Issue #2 | Johns Hopkins University APL, US National Security Agency, InterDigital, Apple, CableLabs | pCR |  | withdrawn |  |
|  |  | S3‑222770 | Padding-based solution to the leakage of the length of SUPI through SUCI | Ericsson LM | pCR |  | withdrawn |  |
|  |  | S3‑222771 | Hash-based solution to the leakage of the length of SUPI through SUCI | Ericsson LM | pCR |  | withdrawn |  |
|  |  | S3‑222786 | Modification to KI details of the KI #2 | Ericsson LM | pCR |  | withdrawn |  |
| 5.5 | Study on Standardising Automated Certificate Management in SBA | S3‑222617 | Mapping of solutions to key issues | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222615 | Resolving EN in Solution #3 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222740 | Updates to OCSP revocation Procedure | Intel | pCR |  | available |  |
|  |  | S3‑222827 | Clarification for unknown revocation status | Ericsson | pCR |  | available |  |
|  |  | S3‑222616 | Proposal to complement KI#3 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222498 | New solution for KI #2 and #8 in NF certificate enrolment procedure | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222499 | New solution for KI #6 Relation between certificate management lifecycle and NF management lifecycle | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222613 | Solution to indicate and validate the purpose of the certificate | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222614 | Solution based on OCSP Stapling addressing KI #5 & #6 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222620 | Solution for ACM for network slicing | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222829 | A new solution of building initial trust for NF certificate enrolment | Ericsson | pCR |  | available |  |
|  |  | S3‑222619 | CMPv2 profile for SBA | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222828 | Proposal of CMP profiling for SBA | Ericsson | pCR |  | available |  |
|  |  | S3‑222826 | [DRAFT] LS on automated certificate management | Ericsson | LS out | >>CC\_1<<  [Ericsson] presents  [Huawei] comments that is no need to send LS. There is no clear key issues and solutions. It is a bit early. >>CC\_1<< | available |  |
|  |  | S3‑222618 | Discussion paper on Network Function identifiers | Nokia, Nokia Shanghai Bell | discussion |  | available |  |
| 5.6 | New SID on AKMA phase 2 | S3‑222521 | Addressing the EN of KI#1 | China Mobile | pCR |  | available |  |
|  |  | S3‑222608 | Update KI#1 in AKMA roaming | OPPO | pCR | [CMCC]: propose to merge in S3-222521.  [Nokia]: propose to merge this in 222521 | available |  |
|  |  | S3‑222640 | update the Key issue of AKMA roaming | ZTE Corporation | pCR | [CMCC]: propose to merge in S3-222521. | available |  |
|  |  | S3‑222583 | New KI on AKMA Kaf refresh | OPPO | pCR |  | available |  |
|  |  | S3‑222635 | New KI on the Kaf refresh | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222698 | Key issue on KAF refresh without primary reauthentication and its feasibility | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222837 | Key Issue on KAF refresh | Samsung | pCR |  | available |  |
|  |  | S3‑222488 | Add evaluation to solution#5 | Huawei, HiSilicon | pCR | [Nokia]: clarification required before approval | available |  |
|  |  | S3‑222489 | address Editor's Note in solution#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222490 | add evaluation to solution#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222568 | Removal of Editor’s Notes of solution #6 | Lenovo | pCR | [Nokia]: clarification required | available |  |
|  |  | S3‑222569 | Evaluation of solution #6 | Lenovo | pCR |  | available |  |
|  |  | S3‑222612 | New solution on AAnF discovery and selection for internal AF and NEF in AKMA roaming | OPPO | pCR |  | available |  |
|  |  | S3‑222636 | Address EN and add evaluation for solution 3 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222637 | Address EN and add evaluation for solution 4 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222638 | Conclusion for KI#1 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222639 | New solution about the roaming AKMA architecture of the AF in Data Network | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222641 | update to solution #1 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222642 | update to solution #2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222643 | update to solution #5 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222644 | update to solution #6 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222662 | AKMA roaming architecture | Apple | pCR |  | available |  |
|  |  | S3‑222674 | AKMA - New solution for AKMA roaming | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222839 | New solution on AKMA Roaming | Samsung | pCR |  | available |  |
|  |  | S3‑222926 | AKMA roaming with AF outside VPLMN | THALES | pCR |  | available |  |
|  |  | S3‑222471 | Editorial change and addressing the editor's note in solution 7 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222472 | Add evaluation to solution 7 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222522 | Addressing the EN in Solution#7 | China Mobile, Xiaomi | pCR |  | available |  |
|  |  | S3‑222523 | Evaluation of Solution#7 | China Mobile, Xiaomi | pCR |  | available |  |
|  |  | S3‑222524 | Conclusion of key issue#2 | China Mobile, Xiaomi | pCR |  | available |  |
|  |  | S3‑222701 | solution 1 updates for internal AF | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222702 | solution 1 updates for external AF | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222718 | Update on the solution #5 | LG Electronics France | pCR |  | available |  |
|  |  | S3‑222719 | New solution for AKMA roaming scenario | LG Electronics France | pCR |  | available |  |
|  |  | S3‑222633 | Discussion on the need and usecases for Kaf update | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222697 | Discussion paper of KAF refresh without primary reauthentication | Nokia, Nokia Shanghai Bell | discussion |  | available |  |
|  |  | S3‑222699 | Solution on Kaf refresh without primary authentication UA\* | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222700 | Solution on Kaf refresh without primary authentication AAnF | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222838 | New solution on AKMA KAF refresh | Samsung | pCR |  | available |  |
|  |  | S3‑222916 | Discussion about KAF refresh | Ericsson | discussion |  | available |  |
|  |  | S3‑222917 | New solution for KAF lifetime | Ericsson | pCR | [Samsung]: Disagree with the solution. | available |  |
|  |  | S3‑222634 | Modify the scope of TR 33.737 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222918 | Updates to the architectural assumptions clause | Ericsson | pCR |  | available |  |
| 5.7 | Study of Security aspect of home network triggered primary authentication | S3‑222510 | Update KI#1 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222513 | new solution on less impact on current using key | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222694 | Solution on UDM initiated primary authentication based on AAnF request for Kaf refresh scenario | BUPT, China Mobile | pCR |  | available |  |
|  |  | S3‑222695 | Solution on AUSF initiated primary authentication based on AAnF request for Kaf refresh scenario | BUPT, China Mobile | pCR |  | available |  |
|  |  | S3‑222739 | Solution to enable HN triggered Primary Authentication with AUSF | Lenovo | pCR |  | available |  |
|  |  | S3‑222920 | New solution for Home Network triggered primary authentication | Ericsson | pCR |  | available |  |
|  |  | S3‑222922 | New solution for delegated Home Network controlled primary authentication | Ericsson | pCR |  | available |  |
|  |  | S3‑222921 | New solution for KI#2: max lifetime for KAF | Ericsson | pCR |  | available |  |
|  |  | S3‑222511 | Update solution#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222704 | solution 1 updates | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222717 | Updates to solution 9 | Intel | pCR |  | available |  |
|  |  | S3‑222737 | Resolving Editors Notes in Solution 8 | Lenovo | pCR |  | available |  |
|  |  | S3‑222738 | Evaluation for Solution #8 | Lenovo | pCR |  | available |  |
|  |  | S3‑222760 | Proposed resolution of the ENs in solution #5 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222841 | Resolving EN and adding evaluation for solution#9 | Samsung | pCR |  | available |  |
|  |  | S3‑222842 | Resolving EN and adding evaluation for solution#6 | Samsung | pCR |  | available |  |
|  |  | S3‑222880 | Update to solution #7 and resolve the ENs on use case and counter wrap around reason | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222881 | Evaluation of solution #7 in TR 33.741 | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222512 | Conclusion proposal for the study | Huawei, HiSilicon | pCR | [Samsung]: Asks for clarification and proses to merge with S3-222843 | available |  |
|  |  | S3‑222703 | conclusion for KI2 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222843 | Conclusion on KI#1 | Samsung | pCR |  | available |  |
|  |  | S3‑222919 | Discussion about the way forward for the Home Network triggered authentication | Ericsson | discussion | [Samsung]: Disagree with the first proposal in the DP. | available |  |
|  |  | S3‑222923 | Evaluation of the need to address the HONTRA use cases | Ericsson | pCR |  | available |  |
| 5.8 | Study on security aspects of enablers for Network Automation for 5G – phase 3 | S3‑222457 | LS OUT to GSMA on the data and analytics exchange between two NWDAFs in different PLMNs | S2-2207142 | LS in | >>CC\_1<<  [CMCC] presents.  5 draft reply LSs.(787, 518, 626, 735, 882. 626 is baseline for merger.)  [Nokia] to hold the pen.  >>CC\_1<< | available |  |
|  |  | S3‑222458 | LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors | S2-2207156 | LS in | >>CC\_1<<  [CMCC] presents  778 is draft reply LS. >>CC\_1<< | available |  |
|  |  | S3‑222787 | [DRAFT] Reply LS on the data and analytics exchange between two NWDAFs in different PLMNs | Ericsson | LS out | [Nokia]: proposes to merge this contribution into S3-222626 -r1 | available |  |
|  |  | S3‑222788 | [DRAFT] Reply LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors | Ericsson | LS out |  | available |  |
|  |  | S3‑222518 | Reply LS on Data and Analytics Exchange between Two NWDAFs in Different PLMNs | Huawei, HiSilicon | LS out | [Nokia]: proposes to merge this contribution into S3-222626 -r1 | available |  |
|  |  | S3‑222626 | LS on the data and analytics exchange between two NWDAFs in different PLMNs | Nokia, Nokia Shanghai Bell | LS out | [Nokia]: provides -r1, by considering all contributions received in this meeting to respond the LS from SA2 (S2-2207142)  >>CC\_1<<  [Nokia] presents  >>CC\_1<< | available |  |
|  |  | S3‑222735 | Reply LS on the data and analytics exchange between two NWDAFs in different PLMNs | CATT | LS out | [Nokia]: proposes to merge this contribution into S3-222626 -r1 | available |  |
|  |  | S3‑222882 | Reply LS on User consent for roaming case in eNA | Beijing Xiaomi Mobile Software | LS out | [Nokia]: proposes to merge this contribution into S3-222626 -r1 | available |  |
|  |  | S3‑222526 | Revision on key issue #1 | China moblie | pCR |  | available |  |
|  |  | S3‑222789 | Update KI#2: Authorization of selection of participant NWDAF instances in the Federated Learning group | Ericsson | pCR |  | available |  |
|  |  | S3‑222500 | Solution on Reusing SBA for AI/ML model storage and sharing | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222621 | Solution on secured and authorized AI/ML Model transfer and retrieval | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222623 | Resolving ENs (step 9) in Solution #3 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222625 | Resolving EN (step 1) in Solution #3 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222747 | Updates to solution 2: remove EN E2E protection | Intel | pCR |  | available |  |
|  |  | S3‑222748 | Updates to solution 2: remove EN Authorization | Intel | pCR |  | available |  |
|  |  | S3‑222749 | Updates to solution 2: remove EN key management | Intel | pCR |  | available |  |
|  |  | S3‑222527 | New solution on protection of data and analytics exchange in roaming case | China mobile | pCR |  | available |  |
|  |  | S3‑222622 | Resolving ENs in Solution #5 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222551 | Adding parameters to solution#6 | China Telecommunications | pCR |  | available |  |
|  |  | S3‑222624 | Resolving EN in Solution #6 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222733 | Anomalous NF behaviour event related data collection and anomalous NF | Lenovo | pCR |  | available |  |
|  |  | S3‑222567 | New solution addressing KI#6 | Lenovo | pCR |  | available |  |
|  |  | S3‑222734 | Cyber attack detection using NWDAF | Lenovo | pCR |  | available |  |
|  |  | S3‑222744 | Solution to Cyber Attack Detection | Intel | pCR |  | available |  |
|  |  | S3‑222840 | Solution on analytics for DoS attack detection | Samsung | pCR |  | available |  |
| 5.9 | Study on Security Enhancement of support for Edge Computing — phase 2 | S3‑222530 | New sol on Key issue #1.1: How to authorize PDU session to support local traffic routing to access an EHE in the VPLMN | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222825 | A solution for authentication of EEC/UE and GPSI verification by EES/ECS | Ericsson | pCR |  | available |  |
|  |  | S3‑222834 | A solution for authentication of UE and GPSI verification by EES/ECS | Ericsson | pCR |  | available |  |
|  |  | S3‑222661 | MEC- New solution on Authentication in roaming architecture | Apple | pCR |  | available |  |
|  |  | S3‑222888 | Resolve ENs in Sol #1 and Sol #2 | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222501 | Authentication mechanism selection between EEC and ECS | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222508 | Authentication mechanism selection between EEC and EES | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222656 | MEC- update to key issue#2 on adding security protection on negotiation messages | Apple | pCR |  | available |  |
|  |  | S3‑222658 | MEC- Editorial updating on solution#7 | Apple | pCR |  | available |  |
|  |  | S3‑222659 | MEC- Addressing the EN#1 in solution#7 | Apple | pCR |  | available |  |
|  |  | S3‑222660 | MEC- Addressing the EN#2 in solution#7 | Apple | pCR |  | available |  |
|  |  | S3‑222823 | A solution for UE authentication method negotiation | Ericsson | pCR |  | available |  |
|  |  | S3‑222847 | Resolving EN and evaluation of solution#3 (TR 33.739) | Samsung | pCR |  | available |  |
|  |  | S3‑222848 | Resolving EN and evaluation of solution#4 (TR 33.739) | Samsung | pCR |  | available |  |
|  |  | S3‑222889 | Resolve EN in Sol #5 | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222502 | Authentication and Authorization between V-ECS and H-ECS | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222849 | Authorization of V-ECS in roaming scenario | Samsung | pCR |  | available |  |
|  |  | S3‑222887 | KI 2.3 2.4, New Sol on authentication and authorization between V-ECS and H-ECS | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222503 | Transport security for the EDGE 10 interface | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222531 | Conclusion on Key issue #2.4: Transport security for the EDGE10 interface | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222507 | New KI on Authentication and Authorization between AC and EEC | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222529 | New KI, solution and conclusion on Authorization between EESes | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222572 | New key issue on authentication and authorization for EDGE-9 reference point | InterDigital Communications | pCR |  | available |  |
|  |  | S3‑222657 | MEC - New key issue on AF specific identifier | Apple | pCR |  | available |  |
|  |  | S3‑222514 | Solution on Authentication and Authorization between AC and EEC | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222459 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge | S2-2207394 | LS in | >>CC\_1<<  [Huawei] presents.  Chair asks whether it is no action.  [Huawei] clarifies there will be related.  Chair asks whether it should be 464 and [Huawei] confirms.  Chair proposes to note it after 1st challenge deadline. >>CC\_1<< | available |  |
|  |  | S3‑222464 | LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-221953 | LS in | >>CC\_1<<  Chair points out it needs reply.  >>CC\_1<< | available |  |
|  |  | S3‑222465 | Reply LS to OPAG\_34\_Doc\_07\_OPAG\_LS ETSI-3GPP-Network integration | S6-222337 | LS in | >>CC\_1<<  [Samsung] presents and proposes to note  Chair proposes to note as 1st challenge deadline.  >>CC\_1<< | available |  |
|  |  | S3‑222467 | Forward on S6-222332, LS on Network federation interface for Telco edge consideration | S6-222543 | LS in | >>CC\_1<<  [Huawei] presents.  It needs action.  [Huawei] gives clarification for the LS.  [Nokia] agrees with Huawei’s analysis. And comments  Chair asks Huawei or Nokia to hold the pen. It seems it may not be able to prepare one in this meeting, so it can be delayed to Nov. Meeting.  [Huawei] volunteered to hold the pen and propose to complete the work in this meeting.  >>CC\_1<< | available |  |
|  |  | S3‑222468 | Reply LS to Network federation interface for Telco edge consideration | S6-222557 | LS in | >>CC\_1<<  [Huawei] gives brief introduction and proposes to note.  >>CC\_1<< | available |  |
|  |  | S3‑222746 | draft-Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | Intel | LS out |  | available |  |
|  |  | S3‑222824 | A solution for authentication of UE and GPSI verification by EES/ECS | Ericsson | pCR |  | revised | [S3‑222834](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-10-07_18h15.htm#RANGE!S3-222834) |
| 5.1 | Study on Personal IoT Networks Security Aspects | S3‑222562 | Discussion paper – Need for LS to SA2 on PINE Identification | InterDigital, Inc. | discussion |  | available |  |
|  |  | S3‑222589 | Discussion paper on new EAP based solution variants for KI#1 | Nokia, Nokia Shanghai Bell | discussion |  | available |  |
|  |  | S3‑222563 | LS on PINE identification | InterDigital, Inc. | LS out |  | available |  |
|  |  | S3‑222573 | New KI on provisioning information to PINE for authenticating and authorizing PINE connects to PEGC | vivo | pCR |  | available |  |
|  |  | S3‑222574 | New KI on verification of PIN communication configuration sent from PEGC to 5GC | vivo | pCR |  | available |  |
|  |  | S3‑222646 | Key issue on secure data transfer between PEGC PEMC and PIN NF | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222894 | Update KI #2 Secure provisioning of PIN policies | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222895 | Update KI #1 Secure PINE authorization | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222516 | Solution on PINE authentication | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222571 | New solution to KI#1 : EAP based PIN device authentication using AKMA | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222577 | New solution for authentication and authorization of PINE | vivo | pCR |  | available |  |
|  |  | S3‑222584 | New solution to KI#1: Using secondary authentication for PIN elements | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222647 | Soultion for secure data transfer between PEGC PEMC and PIN NF | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222672 | PIN - New solution KI#1 | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222896 | KI 2, New Sol on CAPIF based PIN AF authorization | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222897 | KI 1, New Sol on EAP-based PINE authentication | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222645 | Add some context to assumptions to TR 33.882 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222648 | Clean up to TR 33.882 | ZTE Corporation | pCR |  | available |  |
| 5.11 | Study on SNAAPP security | S3‑222905 | New structure for requirements | NTT DOCOMO | pCR |  | available |  |
|  |  | S3‑222496 | New Solution on Obtain Resource Owner Authorization in API Invocation using OAuth Token | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222561 | New solution to KI#1 using OAuth client credential grant | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222743 | Authenticate and authorize UE in UE originated API invocation | Lenovo | pCR |  | available |  |
|  |  | S3‑222854 | New Solution on User Authorization in API Invocation | Samsung | pCR |  | available |  |
|  |  | S3‑222906 | pCR to TR 33.884 new solution on UE authentication | NTT DOCOMO | pCR |  | available |  |
|  |  | S3‑222907 | pCR to TR 33.884 new solution on non resourceowner UE authorization | NTT DOCOMO | pCR |  | available |  |
|  |  | S3‑222908 | draft LS on SNAAPP requirements clarifications | NTT DOCOMO | LS out |  | available |  |
|  |  | S3‑222909 | draft LS reply on CAPIF authorization roles related to FS\_SNAAPP | NTT DOCOMO | LS out |  | available |  |
| 5.12 | Study on enhanced security for network slicing Phase 3 | S3‑222545 | Update to KI#1 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222546 | New KI to protect slice related information sent to Home by roaming UE | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222650 | Update KI#1 providing VPLMN slice information to roaming UE | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222745 | Update to KI#1 Providing VPLMN slice information to roaming UE | Lenovo | pCR |  | available |  |
|  |  | S3‑222830 | update to KI#1 providing VPLMN slice information to roaming UE | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222899 | Update KI1 providing VPLMN slice information to roaming UE | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222550 | Update to KI#3 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222832 | update to KI#3 network slice admission control | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222549 | New key issue with multiple NSACFs | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222649 | New KI on the Security of Network Slice Service continuity | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222675 | Self-Secure Network Slice | US National Security Agency, MITRE, Cable Labs, InterDigital, Charter Communications, AT&T, Apple, CISA/ECD | pCR |  | available |  |
|  |  | S3‑222547 | New solution to KI#1 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222831 | add solution for KI#1 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222900 | KI1, New Sol Confidentiality and integrity protection for UE initiated capability indication procedure | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222901 | KI1, New Sol Secure mechanism for network triggered UE capability indication procedure | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222548 | New solution to KI#2 suporting temporary slice | Huawei, HiSilicon | pCR |  | available |  |
| 5.13 | Study on Security aspects for 5WWC Phase 2 | S3‑222714 | KI1 update | Nokia, Nokia Shanghai Bell, Cablelabs | pCR |  | available |  |
|  |  | S3‑222715 | Solution 1 enhancement for EN removal on key derivation | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222716 | Solution 1 enhancement for EN removal on privacy | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222485 | New solution to address KI#1 | Huawei, HiSilicon | pCR | [Nokia]: clarification required before approval | available |  |
|  |  | S3‑222690 | EAP base authentication for AUN3 devices behind RG in PLMN | CableLabs | pCR | [Ericsson]: revision needed | available |  |
|  |  | S3‑222691 | EAP base authentication for AUN3 devices behind RG in SNPN | CableLabs | pCR | [Ericsson]: revision needed | available |  |
|  |  | S3‑222692 | EAP base authentication for AUN3 devices behind RG in SNPN by AAA | CableLabs | pCR | [Ericsson]: revision needed | available |  |
|  |  | S3‑222712 | Conclusion for KI2 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222483 | Update Key Issue 3 | Huawei, HiSilicon | pCR | [Nokia]: clarification required and propose the changes | available |  |
|  |  | S3‑222484 | New solution to KI#3 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222713 | Conclusion for KI3 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222693 | Key issue on authentication of AUN3 device not supporting EAP | CableLabs | pCR | [Ericsson]: clarification needed | available |  |
|  |  | S3‑222709 | Discussion paper of WWC SID update for TNAP mobility | Nokia, Nokia Shanghai Bell, Lenovo, Apple | discussion |  | available |  |
|  |  | S3‑222710 | New SID on Security aspects for 5WWC Phase 2 | Nokia, Nokia Shanghai Bell, Lenovo,Cablelabs, Charter Communications, Apple | SID revised |  | available |  |
|  |  | S3‑222711 | New KI on TNAP mobility | Nokia, Nokia Shanghai Bell, Lenovo, Apple | pCR | [Ericsson]: revision proposed in r1 | available |  |
|  |  | S3‑222456 | Reply LS on TNAP mobility security aspect | S2-2206999 | LS in | >>CC\_1<<  [Nokia] presents.  Chair asks whether need to reply or not.  [Nokia] clarifies the action is to trigger study and we can do it.  [CableLabs] considers to reply.  [Huawei] considers no need to reply.  [QC] comments.  Chair proposes not to send LS back. >>CC\_1<< | available |  |
| 5.14 | Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN | S3‑222552 | Security Event Logging for RAN AI/ML framework | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222553 | Solution for User Privacy of the RAN AI/ML framework | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222554 | Detecting sources of potential data poisoning attacks towards RAN AI-ML based network optimizations | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222597 | Privacy Requirements for user privacy in RAN AI/ML framework | Qualcomm Finland RFFE Oy | pCR |  | available |  |
|  |  | S3‑222741 | Update Security Requirements to Key issue 1 | Intel | pCR |  | available |  |
|  |  | S3‑222886 | Update to KI#1 in TR 33.877 | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222912 | Content for the scope clause of the technical report | Ericsson | pCR |  | available |  |
|  |  | S3‑222913 | New Key issue on the security of the information transfer of the RAN AI/ML framework | Ericsson | pCR |  | available |  |
|  |  | S3‑222914 | Updates to KI#1 User Privacy of the RAN AI/ML framework | Ericsson | pCR |  | available |  |
|  |  | S3‑222915 | New Key issue on the robustness of the RAN AI/ML framework against data poisoning attacks | Ericsson | pCR |  | available |  |
| 5.15 | Study on security support for Next Generation Real Time Communication services | S3‑222538 | Add security requirement to KI on data channel | Huawei, HiSilicon | pCR | [Ericsson]: Requests clarifications. | available |  |
|  |  | S3‑222539 | EN removal of solution#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222540 | New solution on SBA in IMS control plane | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222761 | Proposed resolution of some ENs in solution #2 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222835 | Update Key issue #2: Security aspects of Data Channel usage in IMS network | Ericsson | pCR |  | available |  |
|  |  | S3‑222836 | Update solution#1 | Ericsson | pCR |  | available |  |
| 5.16 | Study on security aspects of enhanced support of Non-Public Networks phase 2 | S3‑222497 | New Solution based on Reusing Existing N3GPP Security for SNPN | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222891 | KI1, New Sol on Authentication mechanism for trusted non-3GPP Access in NPN scenarios | Xiaomi Communication | pCR | [Nokia]: Request clarification before acceptable | available |  |
|  |  | S3‑222892 | KI1, New Sol on Authentication mechanism for untrusted non-3GPP Access in NPN scenarios | Xiaomi Communication | pCR | [Nokia]: Request clarification before acceptable  [Ericsson]: Revision needed | available |  |
|  |  | S3‑222893 | KI1, New Sol on Authentication for devices not supporting 5GC NAS over WLAN access in NPN scenarios | Xiaomi Communication | pCR |  | available |  |
|  |  | S3‑222904 | New solution for KI#1: Use of anonymous SUCI in trusted non-3GPP access | Ericsson | pCR |  | available |  |
|  |  | S3‑222766 | SUCI protection for non-3GPP (WLAN) access to SNPN | Qualcomm Incorporated | other |  | available |  |
|  |  | S3‑222461 | Questions for SUCI protection requirements for non-3GPP (WLAN) access to SNPN | S2-2207700 | LS in |  | available |  |
|  |  | S3‑222515 | Reply LS on Questions for SUCI Protection Requirements for Non-3GPP (WLAN) Access to SNPN | Huawei, HiSilicon | LS out |  | available |  |
|  |  | S3‑222651 | New KI on the UE authentication for access to hosting network | ZTE Corporation | pCR | [Ericsson]: proposes to merge in S3-222773 | available |  |
|  |  | S3‑222652 | New KI on the user authentication for access to hosting network | ZTE Corporation | pCR | [Ericsson]: proposes to note | available |  |
|  |  | S3‑222742 | Key Issue on Authentication for access to localized services | Lenovo | pCR | [Ericsson]: requires updates, proposes to merge in S3-222773 | available |  |
|  |  | S3‑222772 | Service requirements related to the security for providing localized services | Ericsson | discussion |  | available |  |
|  |  | S3‑222773 | New Key Issue "Authentication for UE access to hosting network" | Ericsson, Intel, Nokia, Nokia Shanghai Bell, ZTE | pCR |  | available |  |
|  |  | S3‑222774 | Addressing Note in TR 23.700-08 on credentials provisioning | Ericsson | pCR |  | available |  |
|  |  | S3‑222775 | Communication security and subscriber privacy for access to localized services, alternative 1 | Ericsson | pCR |  | available |  |
|  |  | S3‑222776 | Communication security and subscriber privacy for access to localized services, alternative 2 | Ericsson | pCR |  | available |  |
|  |  | S3‑222777 | New Key Issue on authorization of UE access to the hosting network for providing localized services | Ericsson | pCR |  | available |  |
|  |  | S3‑222890 | New KI on UE authentication and authorization in hosting network scenarios | Xiaomi Communication | pCR | [Ericsson]: proposes to merge in either S3-222773 or S3-222777 | available |  |
|  |  | S3‑222587 | Key issue on security of SNPN using AAA server for primary authentication | InterDigital Communications | pCR |  | available |  |
| 5.17 | Study on Security of Phase 2 for UAS, UAV and UAM | S3‑222754 | Proposed key issue on the privacy of 3GPP identifiers used to transport Broadcast Remote ID | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222755 | Proposed key issue on the privacy of 3GPP identifiers used to transport broadcasted DAA traffic | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222756 | Proposed solution on the privacy of 3GPP identifiers used to transport broadcast remote ID | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222757 | Proposed solution on the privacy of 3GPP identifiers used to transport DAA traffic | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222479 | Update to Sol#1 in 33.891 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222509 | Evaluate the Sol#1 in 33.891 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222590 | Update Solution#4 | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222591 | New solution: Restricted Discovery for Direct C2 | InterDigital, Europe, Ltd. | pCR |  | available |  |
|  |  | S3‑222736 | Evaluation for Solution #2 | Lenovo | pCR |  | available |  |
|  |  | S3‑222758 | Proposed resolution of EN on mixing traffic in solution #3 | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑222759 | Making solution #3 resolve key issues #4 and #5 | Qualcomm Incorporated | pCR |  | available |  |
| 5.18 | Study to enable URSP rules to securely identify Applications | S3‑222564 | Assumption on actors and attacker model | Lenovo | pCR |  | available |  |
|  |  | S3‑222565 | Update of KI#1 | Lenovo, Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222566 | Evaluation of solution #2 | Lenovo | pCR |  | available |  |
|  |  | S3‑222750 | Proposal for an evaluation to solution #2 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222751 | Proposal for a KI on injection of authentication data | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222752 | Discussion paper on a way forward for LS on protection of the URSP rules from HPLM | Nokia, Nokia Shanghai Bell | discussion |  | available |  |
| 5.19 | Study on Security Aspects of Ranging Based Services and Sidelink Positioning | S3‑222473 | address the editor's note in key issue 1 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222671 | Ranging - Update Key Issue #1- privacy risks of exposing positioning reference signals | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222858 | 33.893: Additional Roles for Authorization in KI#2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222557 | New Key issue for Detecting ranging triggered DoS attacks | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222558 | New Key issue for Updating security policy parameters on ranging device when it is out of 5G coverage | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222677 | Protection of Sidelink IDs | US National Security Agency, MITRE, Cable Labs, Charter Communications, AT&T, Apple, CISA/ECD | pCR |  | available |  |
|  |  | S3‑222474 | solutions on privacy protection for UEs in ranging | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222670 | Ranging - New solution KI#1, #2, #3 | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222859 | 33.893: Solution on Application Server Authorization for KI#2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222860 | 33.893: Solution on 5GC NF Authorization for KI#2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222861 | 33.893: Solution on Subscription-based Authorization of the Role of the UE during Discovery | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222862 | 33.893: Solution on Token-based Authorization of the Role of the UE during Discovery | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222878 | New solution on GMLC based authorization for Ranging/SL Positioning services | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222879 | New solution on Token based Authorization for Network assisted sidelink positioning services | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222929 | Use of authorization tokens at PC5 security establishment | Ericsson | pCR |  | available |  |
|  |  | S3‑222478 | New solution of security for the Ranging SL positioning device discovery | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222477 | New solution for protecting direct communication | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222863 | 33.893: Solution on Direct Communication Security for SL Positioning Service | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222857 | 33.893: Terminology Alignment | Xiaomi Technology | pCR |  | available |  |
| 5.2 | Study on Security and Privacy of AI/ML-based Services and Applications in 5G | S3‑222602 | KI on authorization of AF accessing th 5GC assistance information | OPPO, Xidian | pCR |  | available |  |
|  |  | S3‑222603 | KI on authorization of UE accessing the 5GC analytic information | OPPO, Xidian | pCR |  | available |  |
|  |  | S3‑222708 | Key issue on authorization of UE accessing the 5G analytics | Nokia, Nokia Shanghai Bell, IDCC, OPPO, Verizon | pCR |  | available |  |
|  |  | S3‑222611 | New KI:the Authorization of Federated Learning Model Sharing | China Telecom Corporation Ltd. | pCR |  | available |  |
|  |  | S3‑222707 | Key issue on AF authorization for AIML operations | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222604 | KI on securing application AIML data exchange between UE and AF | OPPO, Xidian | pCR |  | available |  |
|  |  | S3‑222706 | Key issue on securing AIML operation | Nokia, Nokia Shanghai Bell, IDCC, OPPO, Verizon | pCR |  | available |  |
|  |  | S3‑222605 | KI on securing provisioning of external parameters | OPPO, Xidian | pCR |  | available |  |
|  |  | S3‑222575 | New key issue on Federated Learning AIML model protection | InterDigital Communications | pCR |  | available |  |
|  |  | S3‑222705 | Key issue on Security criteria of UE selection for AIML | Nokia, Nokia Shanghai Bell, IDCC | pCR |  | available |  |
|  |  | S3‑222606 | KI on classification and protection of AIML data among 5GC AF and UE | OPPO, Xidian | pCR |  | available |  |
|  |  | S3‑222578 | New key issue on Federated Learning AIML model privacy protection | InterDigital Communications | pCR |  | available |  |
|  |  | S3‑222607 | KI on user consent for 5GC provided assistance information | OPPO | pCR |  | available |  |
| 5.21 | Study on applicability of the Zero Trust Security principles in mobile networks | S3‑222504 | Evaluation of tenet 1 on resources | Huawei, HiSilicon | pCR | [Lenovo]: propose to merge in S3-222679.  [Huawei]: fine with the merge proposal | available |  |
|  |  | S3‑222910 | Alignment of 3GPP’s 5G Security to the first NIST Tenet of ZTA | Ericsson | pCR | [Lenovo]: propose to merge in S3-222679. | available |  |
|  |  | S3‑222679 | ZT Tenet 1 | US National Security Agency, NIST, CISA ECD, Lenovo, CableLabs, InterDigital, AT&T, Johns Hopkins University APL, CIS | pCR | [Huawei]: requires updates before approval  [Nokia]: agrees with proposed merge of contributions related to T1, and asks for clarifications  [Lenovo]: Provides r1.  Consider S3-222504, S3-222910, S3-222720 are merged in draft\_S3-222679-r1.  [CMCC] does not agree to this contribution, proposes to use other related contribution as baseline for merging.  [Lenovo]: Provides clarifications. | available |  |
|  |  | S3‑222720 | Evaluation of Tenet #1 | Lenovo, US NSA | pCR | [Lenovo]: announces merger of S3-222720 in S3-222679. | available |  |
|  |  | S3‑222505 | Evaluation of tenet 2 on secure communication | Huawei, HiSilicon | pCR | [Lenovo]: propose to merge in S3-222721.  [Huawei]: fine with the merge proposal | available |  |
|  |  | S3‑222911 | Alignment of 3GPP’s 5G Security to the second NIST Tenet of ZTA | Ericsson LM | pCR | [Lenovo]: propose to merge in S3-222721. | available |  |
|  |  | S3‑222721 | Evaluation of Tenet #2 | Lenovo, US NSA | pCR | [Huawei]: requires updates before approval | available |  |
|  |  | S3‑222924 | Alignment of 3GPP’s 5G Security to the third NIST Tenet of ZTA | Ericsson LM | pCR | [Lenovo]: propose to merge in S3-222681. | available |  |
|  |  | S3‑222681 | ZT Tenet 3 | US National Security Agency, NIST, CISA ECD, Lenovo, CableLabs, InterDigital, AT&T, Johns Hopkins University APL, CIS | pCR | [Huawei]: disagrees with proposal in its current form since it is very incomplete | available |  |
|  |  | S3‑222722 | Evaluation of Tenet #3 | Lenovo, US NSA | pCR | [Lenovo]: announces merger of S3-222722 in S3-222681. | available |  |
|  |  | S3‑222682 | ZT Tenet 4 | US National Security Agency, NIST, CISA ECD, Lenovo, CableLabs, InterDigital, AT&T, Johns Hopkins University APL, CIS | pCR | [Huawei]: disagrees with the proposal in its current form since the analysis wrongly assimilates NFs to human users/subjects and the evaluation does not take into consideration any of the already specified mechanisms.  [Nokia]: agrees with the consideration of adding mutual TLS, and makes a couple of observations | available |  |
|  |  | S3‑222724 | Evaluation of Tenet #4 | Lenovo, US NSA | pCR | [Lenovo]: announces merger of S3-222724 in S3-222682. | available |  |
|  |  | S3‑222517 | Evaluation of tenet 5 on security posture | Huawei, HiSilicon | pCR | [Lenovo]: propose to merge in S3-222680.  Do not accept the current version as it is not clear.  [Huawei]: fine with the merge proposal | available |  |
|  |  | S3‑222680 | ZT Tenet 5 | US National Security Agency, NIST, CISA ECD, Lenovo, CableLabs, InterDigital, AT&T, Johns Hopkins University APL, CIS | pCR | [Huawei]: fine with merge but proposes updates | available |  |
|  |  | S3‑222725 | Evaluation of Tenet #5 | Lenovo, US NSA | pCR | [Lenovo]: announces merger of S3-222725 in S3-222680. | available |  |
|  |  | S3‑222678 | ZT Tenet 6 | US National Security Agency, NIST, CISA ECD, Lenovo, CableLabs, InterDigital, AT&T, Johns Hopkins University APL, CIS | pCR |  | available |  |
|  |  | S3‑222727 | Evaluation of Tenet #6 | Lenovo, US NSA | pCR | [Lenovo]: announces merger of S3-222727 in S3-222678. | available |  |
|  |  | S3‑222676 | ZT Tenet 7 | US National Security Agency, NIST, CISA ECD, Lenovo, CableLabs, InterDigital, AT&T, Johns Hopkins University APL, CIS | pCR |  | available |  |
|  |  | S3‑222728 | Evaluation of Tenets #7 | Lenovo, US NSA | pCR | [Lenovo]: announces merger of S3-222728 in S3-222676. | available |  |
|  |  | S3‑222730 | Evaluation of Tenets and current security mechanisms | Lenovo, US NSA | pCR |  | available |  |
|  |  | S3‑222588 | New Key Issue on Potential Excessive Trust of NFs | China Telecom Corporation Ltd. | pCR | [Lenovo]: Propose to merge in S3-222732. | available |  |
|  |  | S3‑222732 | Key Issue on Need for continuous security monitoring and Trust evaluation | Lenovo, Nokia, Nokia Shanghai Bell, Rakuten Mobile Inc., Interdigital, US NSA, Motorola Solutions, Johns Hopkins University APL, Intel, Center for Internet Security, China Mobile, ZTE, CableLabs | pCR |  | available |  |
| 5.22 | Study of Security aspects on User Consent for 3GPP Services Phase 2 | S3‑222491 | New key issue on User Consent for AI/ML for Network Optimization | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222653 | New KI on User consent for application layer AIML operation | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑222598 | New Key Issue on user consent for Personally Identifiable Information used for Network Optimization | Qualcomm Finland RFFE Oy | pCR |  | available |  |
|  |  | S3‑222492 | Key Issue Update on User Consent for NTN | Huawei, HiSilicon, Philips International B.V., Xiaomi, Qualcomm | pCR |  | available |  |
|  |  | S3‑222818 | UC3S User consent checking by roaming partner NF | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222819 | UC3S Central authorization function for user consent | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222493 | New Solution on User Consent for Analytics Request from vPLMN | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222883 | New solution on User Consent for UE Data Exposure to HPLMN in the Roaming case | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222884 | New solution on User Consent for UE Data Exposure to VPLMN in the Roaming case | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222885 | New solution on Modification or Revocation of User Consent for eNA in the Roaming case | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑222494 | New Solution on unified User Consent Architecture for RAN features | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222669 | UC - New solution NTN | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑222870 | 33.896: Solution on Obtaining User Consent with Mobility in RAN for KI#2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222871 | 33.896: Solution on Obtaining User Consent with Mobility in SN for KI#2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222869 | 33.896: Resolve the ENs in Solutions #1 and #2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222495 | Overview of UC3S\_Ph2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222925 | Guiding principles for determining the applicability for user consent | Ericsson | pCR |  | available |  |
|  |  | S3‑222599 | Discussions on User Consent for Analytics Request in roaming scenarios | Qualcomm Finland RFFE Oy | discussion | >>CC\_1<<  [QC] clarifies this discussion paper is also related with LS: 457  >>CC\_1<< | available |  |
|  |  | S3‑222783 | [DRAFT] Reply LS on the data and analytics exchange between two NWDAFs in different PLMNs | Ericsson | LS out |  | withdrawn |  |
|  |  | S3‑222784 | [DRAFT] Reply LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors | Ericsson | LS out |  | withdrawn |  |
|  |  | S3‑222785 | Update KI#2: Authorization of selection of participant NWDAF instances in the Federated Learning group | Ericsson | pCR |  | withdrawn |  |
| 5.23 | Study on security enhancements for 5G multicast-broadcast services Phase 2 | S3‑222469 | Requirement on TMGI protection | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222470 | Security threat and requirement in MOCN network sharing scenario | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222555 | MOCN security handling for MBS | Nokia, Nokia Shanghai Bell | pCR | [Samsung]: asks clarification on the MTK generation | available |  |
|  |  | S3‑222556 | TMGI protection during group Paging | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222855 | Updates to KI on MOCN scenario | Samsung | pCR |  | available |  |
|  |  | S3‑222856 | Solution on MBS protection for MOCN deployments | Samsung | pCR |  | available |  |
| 5.24 | Study on enhanced Security Aspects of the 5G Service Based Architecture | S3‑222802 | Editiorial updates to 33875-130 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222803 | Abbreviations | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222804 | Trust in standalone SCP | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222805 | Extend trust in inter-PLMN | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222686 | Resolving ENs in solution 6.13 | CableLabs | pCR | [Ericsson]: requires updates | available |  |
|  |  | S3‑222806 | KI1 analysis on NFp authentication in indirect comm | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates | available |  |
|  |  | S3‑222532 | Conclusion on KI#1 authentication of NRF/NFp in the indirect communication mode | Huawei, HiSilicon | pCR | [Ericsson]: requires updates | available |  |
|  |  | S3‑222536 | Resolving EN in Key issue #3 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222778 | KI#3 (Subscribe-Notify): Clarification of Editor's Note | Ericsson | pCR |  | available |  |
|  |  | S3‑222807 | KI3 EN resolution on requirements for subscribe notify | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222534 | Resolving ENs in Sol#12 | Huawei, HiSilicon | pCR | [Ericsson]: requires updates | available |  |
|  |  | S3‑222808 | KI3 EN resolution in sol12 | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates | available |  |
|  |  | S3‑222779 | KI#3 (Subscribe-Notify): Removing EN and providing evaluation for Solution #12 | Ericsson | pCR |  | available |  |
|  |  | S3‑222533 | Resolving ENs in Sol#15 | Huawei, HiSilicon | pCR | [Ericsson]: requires updates | available |  |
|  |  | S3‑222780 | KI#3 (Subscribe-Notify): Removing EN and providing evaluation for Solution #15 | Ericsson | pCR |  | available |  |
|  |  | S3‑222781 | KI#3 (Subscribe-Notify): Analysis and conclusion | Ericsson | pCR |  | available |  |
|  |  | S3‑222809 | KI4 Sol SCP authorization check by NRF | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222685 | Resolving ENs in solution 6.16 | CableLabs | pCR |  | available |  |
|  |  | S3‑222810 | KI6 EN resolution Sol7 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222811 | KI7 Sol17 EN resolution | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222535 | Conclusion on KI#7 authorization mechanism determination | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222812 | KI7 conclusion | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222813 | KI9 solution 18 update | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222814 | KI9 Sol11 EN resolution | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222817 | KI10 Update of Sol20 RHUB PRINS | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222815 | KI10 Clarification on securing remote RHUB and SEPP discovery | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222816 | KI10 Solution for securing remote RHUB and SEPP discovery | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑222782 | Solution for KI#12 Different SEPP Type requirements | Ericsson | pCR |  | available |  |
| 5.25 | Study on Security Aspects of Satellite Access | S3‑222864 | 33.700-28: Draft Skeleton | Xiaomi Technology | draft TR |  | available |  |
|  |  | S3‑222865 | 33.700-28: Scope | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222866 | 33.700-28: Assumptions | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222476 | Key issue on security enhancement with discontinuous satellite coverage | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222581 | Key issue on Security for Satellite Coverage Information provisioning | China Telecom Corporation Ltd. | pCR |  | available |  |
|  |  | S3‑222867 | 33.700-28: New Key Issue on Protection of Satellite Coverage Information used by the UE | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222868 | 33.700-28: New Key Issue on Protection of Satellite Coverage Information used by 5GC/EPC | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑222898 | New KI on AF authorization in Satellite access scenarios | Xiaomi Communication | pCR |  | available |  |
| 6 | New Study/Work item proposals |  |  |  |  |  |  |  |
| 7 | CVD and research |  |  |  |  |  |  |  |
| 8 | Any Other Business | S3‑222452 | Meeting notes from SA3 leadership | MCC | report |  | reserved |  |