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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<<  [Nokia]: collected all responses and is proposing new text proposal for the LS reply  [Intel]: Proposes 222627 for discussion and few comments | 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<<  [MITRE]: starting discussion on S3-222627 and ask for some clarifications in the reply LS  [ZTE]: Provide R1  [Huawei]: object r1 and provide r2.  [CMCC] does not agree with r2 and proposes to reuse the statement for Q1b in r1.  [Ericsson]: we support r2.  [ZTE]: Not fine with R2 and provide clarification | 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<<  [Nokia]: Provides perspective and proposal for way forward  [Lenovo]: supports the Nokia proposal on the way forward  [Interdigital]: supports answering “No” to SA2 on the trust-based question and “Yes” to enhancements to URSP home based protection  [Qualcomm]: requires updates: Proposes to answer Q1 as “yes, existing protection is adequate” and Q2 as “ no, SA3 has not identified any threats that would warrant introduce new schemes  [Huawei, HiSilicon]: No new threat is identified. Existing confidentiality/integrity protection is enough and no need for further enhancements. | 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 | [Qualcomm]: requires revision before approval  [Samsung]: provides clarification to Qualcomm and r2. Updates in r2 are to correct typo in track change and to address comments from Qualcomm.  [Ericsson]: Proposes to note.  [Samsung]: Disagree with the comments from Ericsson. Request Ericsson to point out what is the new proposal that turn the existing solution into different solution, | available |  |
|  |  | S3‑222852 | Resolving EN of solution#7 (TR 33.809) | Samsung, Apple, Deutsche Telekom | pCR | [Qualcomm]: requires revision before approval  [Samsung]: provides clarification to Qualcomm's comment. | 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  [Deutsche Telekom]: proposes further clarification for cases of multiple KPAKs within the same PLMN-ID  [Samsung]: Agrees with DT’s clarification and provides response  [Samsung]: provides r1  [CableLabs]: provides r2 and comments | 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  [Qualcomm]: provides comments and requires a revision before approval | available |  |
|  |  | S3‑222688 | Addressing EN on NR Repeater in 6.27.2.2.4 of Sol#27 | CableLabs | pCR | [Qualcomm]: provides comments and requires revision before approval  [Ericsson]: asks for further clarification | available |  |
|  |  | S3‑222689 | Addressing the editor’s note in 6.27.2.2.1of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR | [Qualcomm]: does not agree with this contribution. | 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  [Huawei]: clarification in response to Nokia.  [Qualcomm]: proposes to note. | 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.’  [Huawei]: provides response to Nokia.  [Ericsson]: proposes to postpone. | available |  |
|  |  | S3‑222543 | Conclusion for KI#3 | Huawei, HiSilicon, Apple, Philips International B.V. | pCR | [Qualcomm]: proposes to note. | 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 | [Huawei]: requests revision. | 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<<  [Huawei]: fine with the merger proposal. Let’s use S3-222850 as basis and close this thread. | 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<<  [Samsung]: provides r1  [Apple]: provides comments on r1.  [Deutsche Telekom]: provides comments on -r1.  [Huawei]: provides comments on r1.  [Samsung]: provides clarification. | available |  |
|  |  | S3‑222655 | 5GFBS - Mapping of solutions and key issues | Apple | pCR | [Ericsson]: provides comments | 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.  [JHU]: Proposes to note. Further technical clarification needed and alignment to KI#13 requirements needed.  [Huawei]: responds to Ericsson and JHU. | available |  |
|  |  | S3‑222600 | Solution #4 – Evaluation and addressing EN | MITRE Corporation | pCR | [Huawei]: revision is needed before approval | available |  |
|  |  | S3‑222601 | Solution #7 – Evaluation and addressing EN | MITRE Corporation | pCR | [Ericsson]: Clarification needed  [MITRE]: provides r1 and clarification  [Ericsson]: ok with r1. | 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 | [Ericsson]: Clarification question  [JHU]: Provides clarification. Contribution is for boot time attestation.  [Ericsson]: ok with the response | 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<<  [Qualcomm]: provides comments and requires a revision before approval | 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<<  [Qualcomm]: revision required before approval  [Nokia]: Ask clarification | 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<<  [Samsung] Proposes to merge in S3-222844 based on CC.  [Huawei, HiSilicon] Fine to merge into S3-222844 and move the discuss under 2844. | 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<<  [Huawei, HiSilicon]: Reply to the question from Ericsson.  [Qualcomm]: revision required before approval  [Nokia]: Ask clarification  [ChinaTelecom]: Provide comments and ask clarification.  [Xiaomi]: Ask clarification  [Ericsson] : provide comments | available |  |
|  |  | S3‑222582 | KI for multi path relaying security | OPPO | pCR | [Samsung] Proposes to merge in S3-222844 based on CC.  [Nokia]: comment. | 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<<  [MITRE] : provides r1 and requests clarification before approving  [Qualcomm]: proposes to note this contribution and suggest to work on this in Rel-17 ProSe  [ZTE]: provide clarification  [Nokia]: provide comment  [Ericsson] : provides comments | 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<<  [Nokia]: Ask clarification  [ZTE]: Provide clarification | 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 | [Nokia]: Ask clarification  [Samsung]: Provides clarification and r1  [Nokia]: comment to r1  [OPPO]: Ask for clarification and propose a wayforward to merge S3-222582 | available |  |
|  |  | S3‑222877 | Key Issue on security of multi-path transmission for UE-to-Network Relay | Beijing Xiaomi Mobile Software | pCR | [Samsung] Proposes to merge in S3-222844 based on CC.  [Xiaomi] Fine to merge into S3-222844 and move the discuss under 2844. | available |  |
|  |  | S3‑222486 | E2E solution in L3 Relay | Huawei, HiSilicon | pCR | [Xiaomi]: provides comments and requires clarification before approval | available |  |
|  |  | S3‑222487 | E2E solution in L2 Relay | Huawei, HiSilicon | pCR | [Xiaomi]: provides comments and requires clarification before approval | available |  |
|  |  | S3‑222576 | Solution for U2U relay (model A) discovery security | China Telecom Corporation Ltd. | pCR | [Xiaomi]: provides comments and requires clarification before approval  [Huawei, HiSilicon]: this contributions needs clarification/revision before approval.  [ChinaTelecom]: provide replies and clarification. | available |  |
|  |  | S3‑222579 | Solution for U2U Relay (model B) discovery security | China Telecom Corporation Ltd. | pCR | [Xiaomi]: provides comments and requires clarification before approval  [Huawei, HiSilicon]: this contributions needs clarification/revision before approval.  [ChinaTelecom]: provide replies and clarification. | 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 | [Xiaomi]: provides comments and requires clarification before approval | 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 | [Qualcomm]: proposes to note this contribution and suggest to work on this in Rel-17 ProSe  [ZTE]: provide clarification | 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 | [ChinaTelecom]: Provide comments and ask for clarification.  [Xiaomi]: provides comments and requires clarification before approval  [Huawei, HiSilicon]: This contribution needs further clarification before approval.  [ChinaTelecom]: Provide comments and ask for clarification. | available |  |
|  |  | S3‑222726 | pCR to TR33.740 Distributed discovery key management and U2U relay authorization | CATT | pCR | [Xiaomi]: provides comments and requires clarification before approval  [Huawei, HiSilicon]: this contribution needs clarification/revision before approval. | available |  |
|  |  | S3‑222729 | pCR to TR33.740 Solution for U2U Relay discovery message security | CATT | pCR | [ChinaTelecom]: Provide comments and ask for clarification.  [Huawei, HiSilicon]: This contribution needs further clarification before approval. | 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 | [ChinaTelecom]: Provide comments and ask for clarification. | 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 | [Nokia]: Ask question  [Huawei, HiSilicon]: requires clarification before approval. | 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 | [Nokia]: Ask clarification | 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 | [ChinaTelecom]: Provide comments and ask for clarification.  [Xiaomi]: provide responses | 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 | [OPPO]: Ask for clarification | 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 | [QC] Requests changes.  [Huawei]: requires clarifications and changes before approval. | 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 | [QC] Request further explanation. | available |  |
|  |  | S3‑222506 | New solution to key issue 1 | Huawei, HiSilicon | pCR | [Interdigital]: Changes are needed for approval  [Huawei]: requests clarifications from Interdigital since all raised issues are actually addressed in the contribution | available |  |
|  |  | S3‑222528 | solution\_for\_privacy\_KI#1 | China mobile | pCR | [Interdigital]: Changes are needed for approval  [CMCC]: Provide R1 and comments | available |  |
|  |  | S3‑222559 | New solution for privacy prevention of SUPI in NAI format | Nokia, Nokia Shanghai Bell | pCR | [Interdigital]: Changes are needed for approval  [Huawei]: asks for clarifications | available |  |
|  |  | S3‑222586 | New solution for Key issue #1 | InterDigital, Inc. | pCR | [Huawei]: requires clarifications before approval | available |  |
|  |  | S3‑222632 | SUPI padding solution on Key issue #1 | China Southern Power Grid Co., Ltd, ZTE Corporation | pCR | [Interdigital]: Changes are needed for approval  [ZTE]: provides r1.  [Huawei]: asks for further clarifications  [ZTE]: responds to Huawei's comments. | available |  |
|  |  | S3‑222696 | New solution on Key issue #1 | China Telecom Corporation Ltd. | pCR | [Interdigital]: Changes are needed for approval  [NCSC]: Asks for explanation  [China Telecom]: Provides clarification and r1 | available |  |
|  |  | S3‑222769 | Solution for KI#1 | Qualcomm Incorporated | pCR | [Interdigital]: Changes are needed for approval | available |  |
|  |  | S3‑222790 | Solution to address KI#1 | Lenovo | pCR | [Interdigital]: Changes are needed for approval  [Huawei]: asks for clarifications | available |  |
|  |  | S3‑222820 | Padding-based solution to the leakage of the length of SUPI through SUCI | Ericsson LM | pCR | [Interdigital]: Changes are needed for approval | available |  |
|  |  | S3‑222821 | Hash-based solution to the leakage of the length of SUPI through SUCI | Ericsson LM | pCR | [Interdigital]: Changes are needed for approval | 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 | >>CC\_2<<  [Nokia] presents current status.  >>CC\_2<< | available |  |
|  |  | S3‑222740 | Updates to OCSP revocation Procedure | Intel | pCR |  | available |  |
|  |  | S3‑222827 | Clarification for unknown revocation status | Ericsson | pCR | [Nokia]: agrees with the proposal of Ericsson to fix the EN in solution #6  [Nokia]: agrees with the proposal of Ericsson to fix the EN in solution #6  [Huawei]: asks for clarifications on the way forward | available |  |
|  |  | S3‑222616 | Proposal to complement KI#3 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: requires changes  [Huawei]: requires changes | available |  |
|  |  | S3‑222498 | New solution for KI #2 and #8 in NF certificate enrolment procedure | Huawei, HiSilicon | pCR | [Ericsson] : requires clarification/revision before approval | 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 | [Ericsson] : requires clarification/revision before approval  [Huawei]: has concerns about the solution | available |  |
|  |  | S3‑222614 | Solution based on OCSP Stapling addressing KI #5 & #6 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: requests clarifications | available |  |
|  |  | S3‑222620 | Solution for ACM for network slicing | Nokia, Nokia Shanghai Bell | pCR | [Ericsson] : requires clarification/revision before approval | 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 | [Nokia] proposes to merge this contribution into S3-222619, and continue the discussion there.  [Ericsson] : comments on 222619  [Nokia]: provides a proposal to move forward the CMP profiling  [Huawei]: asks for clarifications on the way forward | 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 | [HPE] : Supports the detailed proposal  [Huawei]: asks for clarifications | 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  [OPPO]: agree with CMCC and Nokia to merge. | available |  |
|  |  | S3‑222640 | update the Key issue of AKMA roaming | ZTE Corporation | pCR | [CMCC]: propose to merge in S3-222521.  [Nokia]: propose to merge in S3-222521.  [ZTE]:provides clarifications.  [NDRE]: clarifies LI requirements.  [Ericsson]:Propose to also merge in S3-222521.  [ZTE]: provides more clarifications.  [ZTE]: provides more clarifications. | available |  |
|  |  | S3‑222583 | New KI on AKMA Kaf refresh | OPPO | pCR | [Huawei] asks some clarifications on the requirements  [CMCC] proposes to merge in S3-222837.  [Ericsson] Proposes to merge this document with another document and requests for clarifications.  [OPPO] Provide clarification, agree to merge and using S3-222837 as baseline | available |  |
|  |  | S3‑222635 | New KI on the Kaf refresh | ZTE Corporation | pCR | [CMCC] proposes to merge in S3-222837.  [Ercsson] : proposes to merge with other similar contributions.  [ZTE]: agrees to merge and continue the discussion in S3-222837. | available |  |
|  |  | S3‑222698 | Key issue on KAF refresh without primary reauthentication and its feasibility | Nokia, Nokia Shanghai Bell | pCR | [CMCC] proposes to merge in S3-222837.  [Ericsson]: proposes to merge with other similar contributions, provides comments.  [Nokia] agree to merge this contribution in S3-222837. | available |  |
|  |  | S3‑222837 | Key Issue on KAF refresh | Samsung | pCR | [Ericsson] : proposes to merge with other similar contributions, provides comments.  [CMCC] : proposes to merge S3-222583, S3-222635, S3-222698, provides comments.  [Samsung]: Ok with the merger proposal from CMCC and provides clarification.  [Nokia] : providing the merged proposal with r1 | available |  |
|  |  | S3‑222488 | Add evaluation to solution#5 | Huawei, HiSilicon | pCR | [Nokia]: clarification required before approval  [Apple]: modification is 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  [Lenovo]: provides the requested clarification  [Ericsson] : requests for clarifications, provides suggestions.  [Lenovo] : provides clarifications.  [Nokia]: clarification provided | 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 | [Nokia]: seeking clarification before approval  [Huawei]: asks for clarifications  [Ericsson] : asks for clarifications. | 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 | [Nokia]: propose to postpone the contribution(conclusion for KI1) to the next meeting | available |  |
|  |  | S3‑222639 | New solution about the roaming AKMA architecture of the AF in Data Network | ZTE Corporation | pCR | [Nokia]: seeking clarification before approval  [Ericsson] : Proposes to note unless modified.  [ZTE] : provides clarifications. | available |  |
|  |  | S3‑222641 | update to solution #1 | ZTE Corporation | pCR | [Nokia]: dont agree with the changes.  [Ericsson]: Proposes to note.  [ZTE]: Agrees to decide whether to update the solution or not based on the conclusion of KI discussion. | 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 | [Huawei]: asks for clarifications  [Apple]: Provides clarification.  [Nokia]: asks for clarifications | available |  |
|  |  | S3‑222674 | AKMA - New solution for AKMA roaming | Philips International B.V. | pCR | [Huawei]: requires clarifications before approval.  [Nokia]: seeking clarification before approval  [Philips] provides answers. | available |  |
|  |  | S3‑222839 | New solution on AKMA Roaming | Samsung | pCR | [Huawei]: asks for clarification  [Ericsson] : Requests for clarification before approval.  [Samsung]: Provides clarification. | 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 | [Huawei]: propose to merge S3-222471 into S3-222522. | available |  |
|  |  | S3‑222472 | Add evaluation to solution 7 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑222522 | Addressing the EN in Solution#7 | China Mobile, Xiaomi | pCR | [Huawei]: S3-222471 is merged into S3-222522 and provide r1. | available |  |
|  |  | S3‑222523 | Evaluation of Solution#7 | China Mobile, Xiaomi | pCR | [Huawei]: propose to merge S3-222523 into S3-222472. | 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 | [Huawei]: requires clarifications before approval.  [Nokia]: provide clarification with r1  [NDRE]: seeks clarification on trust model  [Nokia]: provide clarification with r2 (adding a note as requested)  [NDRE]: r2 looks OK | available |  |
|  |  | S3‑222718 | Update on the solution #5 | LG Electronics France | pCR | [Huawei]: asks for clarifications  [NDRE]: comments LI requirements  [ZTE]:supports Huawei’s opinion.  [LGE]: provides clarification. | available |  |
|  |  | S3‑222719 | New solution for AKMA roaming scenario | LG Electronics France | pCR | [Huawei]: requires clarifications before approval  [LGE]: provides clarification. | 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 | [Ericsson] : Proposes to note, provides comments.  [Nokia] : provide clarification. | 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 | [Huawei]: requests clarifications  [Ericsson] : Requests for clarifications.  [Samsung]: Provides r1 and clarification. | available |  |
|  |  | S3‑222916 | Discussion about KAF refresh | Ericsson | discussion |  | available |  |
|  |  | S3‑222917 | New solution for KAF lifetime | Ericsson | pCR | [Samsung]: Disagree with the solution.  [Ericsson] : Provides clarifications.  [Nokia]: 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 | [NDRE]: Seeks clarification on arch proposal. Provides suggestion.  [Ericsson] : provides r1. Requests for clarifications.  [NDRE] : r1 looks OK. Comments on term 'Regulatory control point'. | available |  |
| 5.7 | Study of Security aspect of home network triggered primary authentication | S3‑222510 | Update KI#1 | Huawei, HiSilicon | pCR | [Nokia]: clarification asked before approval  [Nokia]: propose to postpone the conclusion for the next meeting  [Nokia]: Please discard the tailing email  [Ericsson]: Proposes changes before approval. | 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 | [Nokia]: partial disagree with the discussion paper and this solution  [Xiaomi]: provides comments and requires clarification before approval  [Huawei]: clarification is needed before approval. | available |  |
|  |  | S3‑222922 | New solution for delegated Home Network controlled primary authentication | Ericsson | pCR | [Huawei]: clarification is needed before approval. | available |  |
|  |  | S3‑222921 | New solution for KI#2: max lifetime for KAF | Ericsson | pCR | [Huawei]: propose to noted.  [Ericsson]: provides clarifications. | 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  [Nokia]: propose to postpone the conclusion for the next meeting  [Huawei]: provides clarification.  [Huawei]: reply.  [Ericsson]: Proposes to postpone for a later meeting. | available |  |
|  |  | S3‑222703 | conclusion for KI2 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: propose to noted in this meeting. | available |  |
|  |  | S3‑222843 | Conclusion on KI#1 | Samsung | pCR | [Nokia]: propose to postpone the conclusion for the next meeting  [Ericsson]: Proposes to postpone for a later meeting. | 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.  [Xiaomi]: Disagree with the first proposal  [Huawei]: disagree with the first proposal, and proposal to capture the second proposal with modification as the basic conclusion.  >>CC\_2<<  [Ericsson] presents.  [Nokia] partial agree with proposal 1, but not proposal 2.  [Lenovo] is fine with proposal 1, but comments to proposal 2.  [Huawei] introduces current status, and proposes way forward.  [QC] comments  [Docomo] prefers to set UDM as central point to trigger re-auth..  [Ericsson] clarifies.  [Intel] do not agree with proposal 1. do not agree about explicit HOTRA procedure, but ok to set UDM as central point.  [Nokia] doesn’t agree with second part of proposal 1.  [Lenovo] clarifies its comments, doesn’t agree for a solution specific proposal.  [Huawei] summarises, most of delegates agree to set UDM as central point so it may be possible to progress. And gives a plan for this study to progress and conclude.  >>CC\_2<< | 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<<  [AC]: Local consent preferred. See S3-222599.  [QC]: Local consent preferred. See S3-222599.  [Ericsson]: provides r2  [Nokia]: provides clarifications and -r3  [CMCC]: need update before approved.  >>CC\_2<<  [Nokia] presents r3, and there will be an offline call on Wed to discuss further. >>CC\_2<< | 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 | [Ericsson]: proposes to note | 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 | [Ericsson]: proposes updates  >>CC\_2<<  [Huawei] presents.  [Ericsson] comments same as through email.  [Nokia] comments.  [Intel] same comment from Nokia.  [Huawei] clarifies.  Chair suggests to wait SA2 conclusion and continue discussion.  >>CC\_2<< | available |  |
|  |  | S3‑222621 | Solution on secured and authorized AI/ML Model transfer and retrieval | Nokia, Nokia Shanghai Bell | pCR | [Intel]: Request clarification  [QC] Requested clarifications.  [Huawei]: requires clarifications.  [Nokia]: provides clarifications  [Ericsson]: proposes updates  >>CC\_2<<  [Nokia] presents.  [CMCC] concerns on ML model on end-to-end encryption. It is not clear whether encryption of model transfer can be outside of operator control or not.It it can be outside, end-to-end encryption is needed.  [Intel] comments to open Huawei’s contribution, prefers to have end-to-end encryption.  [Nokia] replies.  [Huawei] shares same opinion with CMCC, and have more comment.  [Ericsson] comments.  [IDCC] doesn’t agree the argument that communication should be end-to-end encrypted.  [BT] comments.  [Lenovo] prefers end-to-end encryption.  [Nokia] proposes to separate the model  >>CC\_2<< | 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 | [Huawei]: don’t agree with the proposal.  [Nokia]: provides clarifications and asks for proposal | available |  |
|  |  | S3‑222747 | Updates to solution 2: remove EN E2E protection | Intel | pCR | [Huawei]: request revision before approval. | 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 | [Huawei]: ask for clarification and revision. | available |  |
|  |  | S3‑222527 | New solution on protection of data and analytics exchange in roaming case | China mobile | pCR | [Ericsson]: requires updates before approval | available |  |
|  |  | S3‑222622 | Resolving ENs in Solution #5 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: require clarifications  [Nokia]: provides clarifications and -r1 | 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 | [Ericsson]: requires updates  [Huawei]: request revision before approval | available |  |
|  |  | S3‑222567 | New solution addressing KI#6 | Lenovo | pCR | [Huawei]: revision is required before approval  [Lenovo]: provides clarifications | available |  |
|  |  | S3‑222734 | Cyber attack detection using NWDAF | Lenovo | pCR | [Huawei]: don’t think there is a need to repeat the discussion from Rel-17 | available |  |
|  |  | S3‑222744 | Solution to Cyber Attack Detection | Intel | pCR | [Huawei]: don’t think there is a need for this proposal. | available |  |
|  |  | S3‑222840 | Solution on analytics for DoS attack detection | Samsung | pCR | [Huawei]: don’t see there is a need for this proposal. | 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 | [IDCC]: Clarification of solution | 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 | [IDCC]: Clarification of solution to address EN#2 in solution# 7 | 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 | [OPPO]: Require clarifications | available |  |
|  |  | S3‑222529 | New KI, solution and conclusion on Authorization between EESes | Huawei, HiSilicon | pCR | [IDCC]: Clarification of using local policy for EDGE-9 authorization  [Huawei] : provides clarification to IDCC. | available |  |
|  |  | S3‑222572 | New key issue on authentication and authorization for EDGE-9 reference point | InterDigital Communications | pCR | [Huawei] : Suggest to merge with S3-222529, and use S3-222529 as the baseline. | 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 | [OPPO]: Require clarifications | 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 | [KPN]: Provides comments and ask for modifications.  [Intel]: Provides comments | available |  |
|  |  | S3‑222824 | A solution for authentication of UE and GPSI verification by EES/ECS | Ericsson | pCR | [Samsung]: Requires clarifications before approval | revised | [S3‑222834](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-10-07_18h15.htm#RANGE!S3-222834) |
| 5.10 | 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 | [ChinaTelecom] : provide comments.  [vivo] : replies.  [ChinaTelecom] : provide comments.  [vivo] : replise. | 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 | [ChinaTelecom]: Asks for clarification. | 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 | [ChinaTelecom] : Request clarification.  [vivo] : replies. | available |  |
|  |  | S3‑222584 | New solution to KI#1: Using secondary authentication for PIN elements | Nokia, Nokia Shanghai Bell | pCR | [ChinaTelecom] : Request clarification. | 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 | [Qualcomm]: Asks for clarification.  [ChinaTelecom]: Asks for clarification.  [vivo]: replies to Qualcomm. | 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 | [ChinaTelecom] : Request clarification.  [Xiaomi] : provides clarification and r1. | 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 | [Nokia]: provides comments.  [Huawei]: revision is needed. | 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 | [Huawei]: clarification is needed.  [Nokia]: clarifies, solution addresses all cases of an application using UE as API invoker to access API.  [Huawei]: Further clarification is needed.  [Nokia]: answers that question is not clear. | 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 | [Nokia]: comments: solution only acceptable, if link to OAuth is removed. | available |  |
|  |  | S3‑222906 | pCR to TR 33.884 new solution on UE authentication | NTT DOCOMO | pCR | [Nokia]: provides comments and ask for clarification.  [NTT DOCOMO]: replies to Nokia's comments, provides R1 | available |  |
|  |  | S3‑222907 | pCR to TR 33.884 new solution on non resourceowner UE authorization | NTT DOCOMO | pCR | [Nokia]: comments: solutions seems not to be consistent and not needed.  [Huawei]: agree with Nokia’s comments, and propose to note. | available |  |
|  |  | S3‑222908 | draft LS on SNAAPP requirements clarifications | NTT DOCOMO | LS out | [Nokia]: provides comments. LS not suitable as is.  [NTT DOCOMO]: requests clarification  [Nokia]: provides clarifications.  [NTT DOCOMO]: further comments | available |  |
|  |  | S3‑222909 | draft LS reply on CAPIF authorization roles related to FS\_SNAAPP | NTT DOCOMO | LS out | [Huawei]: Clarification is needed. | available |  |
| 5.12 | Study on enhanced security for network slicing Phase 3 | S3‑222545 | Update to KI#1 | Huawei, HiSilicon | pCR | [Nokia]: provide comments. | available |  |
|  | >>CC\_2<<  Ask offline call in Wed  >>CC\_2<< | S3‑222546 | New KI to protect slice related information sent to Home by roaming UE | Huawei, HiSilicon | pCR | [Nokia]: comments. | available |  |
|  |  | S3‑222650 | Update KI#1 providing VPLMN slice information to roaming UE | ZTE Corporation | pCR | [Huawei]: Provides comments for potential merger.  [ZTE]: agrees to the merging proposal.  [Nokia]: comments to the merging proposal. | available |  |
|  |  | S3‑222745 | Update to KI#1 Providing VPLMN slice information to roaming UE | Lenovo | pCR | [Huawei]: Provides comments for potential merger.  [Nokia]: comments. | available |  |
|  |  | S3‑222830 | update to KI#1 providing VPLMN slice information to roaming UE | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: Provides comments for potential merger.  [Huawei]: additional comments.  [Nokia]: Respond to the comments. | available |  |
|  |  | S3‑222899 | Update KI1 providing VPLMN slice information to roaming UE | Xiaomi Communication | pCR | [Huawei]: Provides comments for potential merger.  [Xiaomi]: agrees to the merging proposal.  [Nokia]: comments. | 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 | [Huawei]: proposes merger with 2550 | 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 | [Huawei]: asks for clarification.  [ZTE]:provides clarifications.  [ZTE]:provides clarifications.  [Deutsche Telekom]: supports the proposed new KI.  [Huawei]: provides comments.  [MITRE]: asks for clarification. | available |  |
|  |  | S3‑222675 | Self-Secure Network Slice | US National Security Agency, MITRE, Cable Labs, InterDigital, Charter Communications, AT&T, Apple, CISA/ECD | pCR | [Huawei]: proposes to note this contribution. | available |  |
|  |  | S3‑222547 | New solution to KI#1 | Huawei, HiSilicon | pCR | [Nokia]: revise before approval. | available |  |
|  |  | S3‑222831 | add solution for KI#1 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: asks for clarification and provides comments. | available |  |
|  |  | S3‑222900 | KI1, New Sol Confidentiality and integrity protection for UE initiated capability indication procedure | Xiaomi Communication | pCR | [Huawei]: asks for clarification and provides comments.  [Xiaomi]: provides clarification and r1 | available |  |
|  |  | S3‑222901 | KI1, New Sol Secure mechanism for network triggered UE capability indication procedure | Xiaomi Communication | pCR | [Huawei]: asks for clarification and provides comments. | 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 | [Huawei]: clarification is needed before approval | available |  |
|  |  | S3‑222715 | Solution 1 enhancement for EN removal on key derivation | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: clarification is needed before approval  [Nokia]: clarification provided  [Huawei]: revision is needed. | 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  [Huawei]: replies  [Nokia]: clarification required | available |  |
|  |  | S3‑222690 | EAP base authentication for AUN3 devices behind RG in PLMN | CableLabs | pCR | [Ericsson]: revision needed  [CableLabs]: provided -r1 and clarification. | 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 | [Huawei]: clarification is needed before approval  [Nokia]: provide r1 based on the comment  [Huawei]: fine with r1 in general | available |  |
|  |  | S3‑222483 | Update Key Issue 3 | Huawei, HiSilicon | pCR | [Nokia]: clarification required and propose the changes  [Huawei]: replies  [Nokia]: clarification required  [Huawei]: replies | available |  |
|  |  | S3‑222484 | New solution to KI#3 | Huawei, HiSilicon | pCR | [Huawei]: provides r1 to fix typo | available |  |
|  |  | S3‑222713 | Conclusion for KI3 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: clarification is needed before approval  [Nokia]: provide clarification and mark this contribution noted | available |  |
|  |  | S3‑222693 | Key issue on authentication of AUN3 device not supporting EAP | CableLabs | pCR | [Ericsson]: clarification needed  [CableLabs]: provided clarification | 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 | [QC] Comment on release timing.  [Nokia]: Provides clarifications  [Ericsson] : proposes to note. | available |  |
|  |  | S3‑222553 | Solution for User Privacy of the RAN AI/ML framework | Nokia, Nokia Shanghai Bell | pCR | [QC] Asked questions.  [Nokia]: Provides clarifications.  [Ericsson]: proposes to postpone the discussion of solutions until the key issue agreed with requirements. Also provides comments on the solution. | available |  |
|  |  | S3‑222554 | Detecting sources of potential data poisoning attacks towards RAN AI-ML based network optimizations | Nokia, Nokia Shanghai Bell | pCR | [QC] Asked about the resubmission.  [Nokia]: Provides clarifications.  [Ericsson]: proposes to note or merge to 2915, asks for clarifications. | available |  |
|  |  | S3‑222597 | Privacy Requirements for user privacy in RAN AI/ML framework | Qualcomm Finland RFFE Oy | pCR | [Ericsson] : proposes to merge to 2914/note and continue the discussion in 2914. | available |  |
|  |  | S3‑222741 | Update Security Requirements to Key issue 1 | Intel | pCR | [QC] Propose to discuss in 2597 and 2914.  [Ericsson]: Proposes to merge this in 2914 and provides comments. | available |  |
|  |  | S3‑222886 | Update to KI#1 in TR 33.877 | Beijing Xiaomi Mobile Software | pCR | [QC] Propose to discuss in 2597 or 2914.  [Xiaomi] agree to merge into 2597 or 2914  [Ericsson]: Proposes to merge 2886 to 2914 or note this. | 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 | [QC] Agreed with the note.  [Ericsson]: Provides clarifications. | 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.  [Huawei]: Responds to Ericsson. | 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 | [Huawei]: agree with the proposal and propose to merge in S3-222540.  [Qualcomm]: OK with merge | available |  |
|  |  | S3‑222835 | Update Key issue #2: Security aspects of Data Channel usage in IMS network | Ericsson | pCR | [Huawei]: agree with the proposal and propose to merge in S3-222539.  [Qualcomm]: asks for clarification on contribution to merge with.  [Ericsson]: Clarifies that S3-222835 should be merged with with S3-222538, not S3-222539. | available |  |
|  |  | S3‑222836 | Update solution#1 | Ericsson | pCR | [Huawei]: Requests clarifications. | 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  [Xiaomi]: provides clarification.  [Nokia]: Request further clarification before acceptable  [Xiaomi]: provides clarification.  [Nokia]: Request further clarification before acceptable  [Xiaomi]: provides clarification. | 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  [Xiaomi]: provides clarification and r1.  [Nokia]: Fine to accept R1.  [Ericsson]: R1 is OK | 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 | [Huawei]: don't agree the detailed proposal of the document.  [Ericsson]: Agree with Huawei and support sending the proposed reply in S3-222515 and continue the discussion in that thread. | available |  |
|  |  | S3‑222461 | Questions for SUCI protection requirements for non-3GPP (WLAN) access to SNPN | S2-2207700 | LS in | [Huawei]: propose to reply this meeting. | available |  |
|  |  | S3‑222515 | Reply LS on Questions for SUCI Protection Requirements for Non-3GPP (WLAN) Access to SNPN | Huawei, HiSilicon | LS out | [Ericsson]: Providing r1  [Thales]: disagrees with the proposed Reply LS (initial and r1). | available |  |
|  |  | S3‑222651 | New KI on the UE authentication for access to hosting network | ZTE Corporation | pCR | [Ericsson]: proposes to merge in S3-222773  [ZTE]: agrees to merge. | available |  |
|  |  | S3‑222652 | New KI on the user authentication for access to hosting network | ZTE Corporation | pCR | [Ericsson]: proposes to note  [ZTE]: agrees to note if there is no security issue in scope.  [Intel]: 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 | [Ericsson]: provides r1, merger of S3-222773, S3-222651, S3-222890 | 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  [Xiaomi]: agrees to the merger proposal and provides some inputs. | available |  |
|  |  | S3‑222587 | Key issue on security of SNPN using AAA server for primary authentication | InterDigital Communications | pCR | [CableLabs]: clarification required  [IDCC]: Provide clarification required  [IDCC]: Provide corrected clarification required  [CableLabs]: provided comments  [IDCC]: Provide response | 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 | [Huawei, HiSilicon]: propose to revise the name of broadcast RID layer. | available |  |
|  |  | S3‑222757 | Proposed solution on the privacy of 3GPP identifiers used to transport DAA traffic | Qualcomm Incorporated | pCR | [Huawei, HiSilicon]: propose to revise the name of DAA traffic layer. | 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 | [Qualcomm]: Propose a modification to the contribution. | 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 | [Huawei]: asks for clarifications  [Lenovo]: provides clarifications | available |  |
|  |  | S3‑222565 | Update of KI#1 | Lenovo, Nokia, Nokia Shanghai Bell | pCR | [Huawei]: asks for clarifications  [Lenovo]: provides clarifications | available |  |
|  |  | S3‑222566 | Evaluation of solution #2 | Lenovo | pCR |  | available |  |
|  |  | S3‑222750 | Proposal for an evaluation to solution #2 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: requires additions to this evaluation | available |  |
|  |  | S3‑222751 | Proposal for a KI on injection of authentication data | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: disagrees with this key issue | 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 | [Philips]: suggest merging S3-222671 and S3-222473 taking S3-222671 as baseline. | available |  |
|  |  | S3‑222671 | Ranging - Update Key Issue #1- privacy risks of exposing positioning reference signals | Philips International B.V. | pCR | [Huawei]: proposed to merge S3-222671 into S3-222473.  [Philips]: provides answers/disagrees. | 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 | [Xiaomi]: provides comments and requests clarification | 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 | [Xiaomi]: provides comments and proposes to move the discussion on 2677 under AI 5.3 if needed | available |  |
|  |  | S3‑222677 | Protection of Sidelink IDs | US National Security Agency, MITRE, Cable Labs, Charter Communications, AT&T, Apple, CISA/ECD | pCR | [Xiaomi]: provides comments and proposes to move the discussion on 2677 under AI 5.3 | 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 | [Huawei]: proposed to merge S3-222859 into S3-222878.  [Xiaomi]: provides response to the comments and prefers to keep the two papers separate | available |  |
|  |  | S3‑222860 | 33.893: Solution on 5GC NF Authorization for KI#2 | Xiaomi Technology | pCR | [Huawei]: proposed to merge S3-222860 into S3-222878.  [Xiaomi]: provides response to the comments and prefers to keep the two papers separate | 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 | [Huawei]: clarification request before approval.  [Xiaomi]: provides response | 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 | [Xiaomi]: proposes to merge 2929 and 2879 | 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 | [Huawei, HiSilicon]: An abbrev needs to be revised.  [Xiaomi]: provides r1 | available |  |
| 5.20 | 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 | [QC] Provided comments. | available |  |
|  |  | S3‑222603 | KI on authorization of UE accessing the 5GC analytic information | OPPO, Xidian | pCR | [QC] Provided comments. | available |  |
|  |  | S3‑222708 | Key issue on authorization of UE accessing the 5G analytics | Nokia, Nokia Shanghai Bell, IDCC, OPPO, Verizon | pCR | [QC] Prefer to have SA2 decision. | available |  |
|  |  | S3‑222611 | New KI:the Authorization of Federated Learning Model Sharing | China Telecom Corporation Ltd. | pCR | [QC] Propose to note. | available |  |
|  |  | S3‑222707 | Key issue on AF authorization for AIML operations | Nokia, Nokia Shanghai Bell | pCR | [QC] Propose to note. | available |  |
|  |  | S3‑222604 | KI on securing application AIML data exchange between UE and AF | OPPO, Xidian | pCR | [QC] Propose to note. | available |  |
|  |  | S3‑222706 | Key issue on securing AIML operation | Nokia, Nokia Shanghai Bell, IDCC, OPPO, Verizon | pCR | [QC] Prefer to wait. | available |  |
|  |  | S3‑222605 | KI on securing provisioning of external parameters | OPPO, Xidian | pCR | [QC] A comment and questions. | available |  |
|  |  | S3‑222575 | New key issue on Federated Learning AIML model protection | InterDigital Communications | pCR | [QC] Propose to note. | available |  |
|  |  | S3‑222705 | Key issue on Security criteria of UE selection for AIML | Nokia, Nokia Shanghai Bell, IDCC | pCR | [QC] Asked questions. | available |  |
|  |  | S3‑222606 | KI on classification and protection of AIML data among 5GC AF and UE | OPPO, Xidian | pCR | [QC] Prefer to wait for SA2. | available |  |
|  |  | S3‑222578 | New key issue on Federated Learning AIML model privacy protection | InterDigital Communications | pCR | [QC] Propose to note. | available |  |
|  |  | S3‑222607 | KI on user consent for 5GC provided assistance information | OPPO | pCR | [QC] Comment that this is out of scope. | 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.  [Ericsson]: OK to merge. | 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.  [CMCC] is still not ok for the revision 1.  [Nokia]: proposes -r2 intended to address CMCC’s concerns and co-signs the proposal  [Lenovo]: Provides r3 to address CMCC’s feedback.  [CMCC] is fine with r3.  [Ericsson]: clarification needed.  [Lenovo]: clarifications provided to Ericsson and Request revision from Ericsson over r3. | 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.  [Ericsson]: OK to merge. | available |  |
|  |  | S3‑222721 | Evaluation of Tenet #2 | Lenovo, US NSA | pCR | [Huawei]: requires updates before approval  [Lenovo]: Provides r1.  [CMCC] does not agree with this contribution. Propose to note.  [Lenovo] Provides r2 to address CMCC’s concerns and also provides some clarifications.  [CMCC] provides r3 as the version can live with | 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.  [Ericsson]: OK to merge. | 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  [Lenovo]: provides r1.  Consider S3-222722, S3-222924 as merged in S3-222681.  [CMCC] is generally fine with this merged contribution, and requests to revise a bit.  [Lenovo] Provides r2 to address CMCC’s feedback.  [CMCC] could not find r2.  [Lenovo] Provide link to find r2. | 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  [CMCC] comments. The contribution needs to be revised at least.  [Lenovo] provides r1 to address CMCC, Nokia and Huawei feedback.  Clarification were also provided inline | 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  [CMCC] disagree with merged contribution and proposes to note.  [Lenovo] Provides r2 to address CMCC and Huawei’s concern. | 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 | [Huawei]: disagrees and requires updates before approval since analysis is based on the wrong interpretation assimilating NFs to human users/subjects and ignores existing security mechanisms for dynamic authorization (OAuth2.0)  [US NSA]: Asks for clarification on how OAuth 2.0 provides dynamic authorization  [CMCC] requests to revise and provides clarification for US NSA’s question.  [Lenovo]: Provides r1 to address CMCC and Hauwei feedback. | 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 | [Huawei]: fine with merge but requires updates  [CMCC] requests for clarification, and proposes to note or postpone this one if possible. | 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 | [Huawei]: propose changes  [Lenovo]: provides clarification.  Agrees to the suggestion. | available |  |
|  |  | S3‑222588 | New Key Issue on Potential Excessive Trust of NFs | China Telecom Corporation Ltd. | pCR | [Lenovo]: Propose to merge in S3-222732.  [Huawei]: propose to postpone discussion on any key issue proposal until SA3 reaches a common understanding/interpretation of the tenets.  [CMCC] is not agree with this contribution, proposes to note.  [Chinatelecom]: Agree to merge in S3-222732.  [Chinatelecom]: respond to the comments | 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 | [Huawei]: propose to postpone discussion on any key issue proposal until SA3 reaches a common understanding/interpretation of the tenets. | 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 | [QC] Asked to merge with S3-222598. | available |  |
|  |  | S3‑222653 | New KI on User consent for application layer AIML operation | ZTE Corporation | pCR | [QC] Asked to merge with S3-222598. | available |  |
|  |  | S3‑222598 | New Key Issue on user consent for Personally Identifiable Information used for Network Optimization | Qualcomm Finland RFFE Oy | pCR | >>CC\_2<<  [QC] presents.  Chair asks whether it is possible to make simple requirement  [Huawei] comments general security requirement is enough, and ok to merge 2491 in.  [Ericsson] is not convinced about Annex V usage for user consent.  Chair asks whatis a specific use case for UC for 3rd party sharing  [Huawei] clarifies MEC could be the case.(respond to Chair)  [Huawei] proposes to work offline for the merging.  [Ericsson] comments. It is ok to specify “personally identifiable information”  >>CC\_2<< | available |  |
|  |  | S3‑222492 | Key Issue Update on User Consent for NTN | Huawei, HiSilicon, Philips International B.V., Xiaomi, Qualcomm | pCR | >>CC\_2<<  [Huawei] presents.  [Ericsson] comments  [Apple] supports this contribution, and reply to Ericsson’s comment.  [Huawei] proposes to add EN to capture Ericsson’s concern.  >>CC\_2<< | available |  |
|  |  | S3‑222818 | UC3S User consent checking by roaming partner NF | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: don’t think this proposal is needed.  [QC]: Local consent preferred. See S3-222599. | 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 | [QC]: Local consent preferred. See S3-222599. | available |  |
|  |  | S3‑222883 | New solution on User Consent for UE Data Exposure to HPLMN in the Roaming case | Beijing Xiaomi Mobile Software | pCR | [QC]: Local consent preferred. See S3-222599. | available |  |
|  |  | S3‑222884 | New solution on User Consent for UE Data Exposure to VPLMN in the Roaming case | Beijing Xiaomi Mobile Software | pCR | [QC]: Local consent preferred. See S3-222599. | available |  |
|  |  | S3‑222885 | New solution on Modification or Revocation of User Consent for eNA in the Roaming case | Beijing Xiaomi Mobile Software | pCR | [QC]: Local consent preferred. See S3-222599. | available |  |
|  |  | S3‑222494 | New Solution on unified User Consent Architecture for RAN features | Huawei, HiSilicon | pCR | [Ericsson]: asks for clarification | available |  |
|  |  | S3‑222669 | UC - New solution NTN | Philips International B.V. | pCR | [Ericsson]: objects  [QC] Provided comments. | 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 | [QC] Wondered about a sentence. | available |  |
|  |  | S3‑222925 | Guiding principles for determining the applicability for user consent | Ericsson | pCR | [Huawei]: don’t agree with the proposal before it’s rewritten down.  [Ericsson]: Clarifies the need of the contribution and ask Huawei to clarify why 3,4, and 5 are not needed.  [QC]: 3+ can be recommendations.  >>CC\_2<<  [Ericsson] presents.  [QC] 1-2 can be requirement, and 3+ can be recommendation.  [Huawei] comments, doesn’t know what the problem trigger this.  [Nokia] comments.  [Ericsson] clarifies.  [Nokia] suggests to catch common understanding in notes.  Chair suggests to catch the clarification in content of TR. That is more formal text.  >>CC\_2<< | 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<<  [Xiaomi]: requires clarification  >>CC\_2<<  [QC] presents.  [BT] agrees with its principle but is not convinced it is practical.  [Nokia] agrees with BT.  [Xiaomi] wonders how to treat if local regulation is different with non-local regulation.  [Docomo] comments.prefers to keep Xiaomi’s concern out of standard as that is legal problem, that should be treated by lawyer.  [QC] clarifies. >>CC\_2<< | 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 | [Ericsson]: r1 uploaded  [Huawei]: fine with r1. | available |  |
|  |  | S3‑222470 | Security threat and requirement in MOCN network sharing scenario | Huawei, HiSilicon | pCR | [Huawei]: merge S3-222855 into S3-222470 and provide r1.  [Samsung]: fine with merger of S3-222855 in S3-222470. Provides r2.  [Huawei]: provide feedback.  [Ericsson]: We believe that the content will be protected by the application e.g. CA/DRM and then we don’t have this issue at all. Provides r3.  >>CC\_2<<  [Huawei] presents r3, and ask which requirement should be chosen.  [Docomo] asks for clarification about “may support”  [Samsung] clarifies.  >>CC\_2<< | available |  |
|  |  | S3‑222555 | MOCN security handling for MBS | Nokia, Nokia Shanghai Bell | pCR | [Samsung]: asks clarification on the MTK generation  [Nokia]: Provides clarification and r1.  [Huawei]: provide comments.  [Ericsson]: Shares Samsung’s and Huawei’s concerns.  [Nokia]: Provides clarifications, and proposes EN for FFS.  >>CC\_2<<  [Nokia] presents.  [Huawei] how the MTK derivation is not clear.  Chair asks Nokia to solve the comment, maybe add an EN.s  >>CC\_2<< | available |  |
|  |  | S3‑222556 | TMGI protection during group Paging | Nokia, Nokia Shanghai Bell | pCR | [Qualcomm]: asks questions and requires revisions before approval | available |  |
|  |  | S3‑222855 | Updates to KI on MOCN scenario | Samsung | pCR | [Huawei]: proposes to merge S3-222855 into S3-222470  [Samsung]: fine with merger of S3-222855 in S3-222470. | available |  |
|  |  | S3‑222856 | Solution on MBS protection for MOCN deployments | Samsung | pCR | [Ericsson]: asks clarification on the MTK distribution  >>CC\_2<<  [Samsung] presents.  [Huawei] comments the solution is not complete.  [Ericsson] comments about MTK distribution.  [Samsung] clarifies.  Chair requests to continue discussion.  >>CC\_2<< | available |  |
| 5.24 | Study on enhanced Security Aspects of the 5G Service Based Architecture | S3‑222802 | Editorial 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 | [Ericsson]: updates required before approval | available |  |
|  |  | S3‑222805 | Extend trust in inter-PLMN | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: proposes to note if not the contribution is clarified and updated considerably | available |  |
|  |  | S3‑222686 | Resolving ENs in solution 6.13 | CableLabs | pCR | [Ericsson]: requires updates  [Mavenir]: Removing ENs is not justified. updating the contribution and keeping the ENs is required before approval | available |  |
|  |  | S3‑222806 | KI1 analysis on NFp authentication in indirect comm | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Mavenir]: updating the contribution is required before approval | available |  |
|  |  | S3‑222532 | Conclusion on KI#1 authentication of NRF/NFp in the indirect communication mode | Huawei, HiSilicon | pCR | [Ericsson]: requires updates  [Mavenir]: updating the contribution is required before approval | 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 | [Huawei] : request clarification.  >>CC\_2<<  [Nokia] presents current status.  [Ericsson] presents contribution.  [Huawei] comments.  [Nokia] asks for clarification.  [Ericsson] clarifies.  Chair asks whether to make such EN extension, or to make a new security requirement instead.  [Ericsson] replies.  >>CC\_2<< | available |  |
|  |  | S3‑222807 | KI3 EN resolution on requirements for subscribe notify | Nokia, Nokia Shanghai Bell | pCR | >>CC\_2<<  [Nokia] presents  [Ericsson] comments it may not be able to provide such information under attack.  [Nokia] clarifies.  [CableLabs] comments 1st requirement is clear.  [Huawei] comments if requiremnt extension is needed, it needs to consider more.  >>CC\_2<< | 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 | >>CC\_2<<  [Nokia] presents current status.  >>CC\_2<< | 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 | [Huawei] : Propose to note this contribution before the evaluation and Ens were fully discussed. | available |  |
|  |  | S3‑222809 | KI4 Sol SCP authorization check by NRF | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: major clarification and/or update required before approval | available |  |
|  |  | S3‑222685 | Resolving ENs in solution 6.16 | CableLabs | pCR | [Mavenir]: updating the contribution is required before approval | available |  |
|  |  | S3‑222810 | KI6 EN resolution Sol7 | Nokia, Nokia Shanghai Bell | pCR | [Mavenir]: updating the contribution is required before approval | available |  |
|  |  | S3‑222811 | KI7 Sol17 EN resolution | Nokia, Nokia Shanghai Bell | pCR | [Mavenir]: Deleting the EN is NOT justified despite the added clarification. This solution does not address the KI  [Huawei] : provides comments that the first EN can not be removed, the second EN shall be reformulated.  >>CC\_2<<  [Nokia] presents r1  [Huawei] requests operator to check whether only 1 operation is deployed.  [Mavenir] comments to not to challenge GSMA.  [Ericsson] clarifies GSMA has guidance.  [Verizon] clarifies.  [Mavenir] comments about oauth2Required is absent.  [Huawei] comments the solution is not sufficient.  Chair requests to continue discussion specifically Huawei to comment on the LS to CT4.  >>CC\_2<< | available |  |
|  |  | S3‑222535 | Conclusion on KI#7 authorization mechanism determination | Huawei, HiSilicon | pCR | [Mavenir]: updating the contribution is required before approval  [Nokia]: comments | available |  |
|  |  | S3‑222812 | KI7 conclusion | Nokia, Nokia Shanghai Bell | pCR | [Mavenir]: updating the contribution is required before approval | 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 | [Mavenir]: proposes to note this contribution.  [NTT DOCOMO]: responds to on Mavenir  [Mavenir]: comments on NTT DOCOMO response. | available |  |
|  |  | S3‑222816 | KI10 Solution for securing remote RHUB and SEPP discovery | Nokia, Nokia Shanghai Bell | pCR | [Mavenir]: proposes to note this contribution. | available |  |
|  |  | S3‑222782 | Solution for KI#12 Different SEPP Type requirements | Ericsson | pCR | [Mavenir]: proposes to note this contribution.  [Ericsson]: replies to Mavenir  [NTT DOCOMO]: also proposes to note this contribution  [Mavenir]: replies to Ericsson.  [Nokia]: provides additional clarification and supports to note in this meeting. | 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 | [Ericsson] : Proposes changes before approval.  [Xiaomi]: provides responses to the comments and r1 | available |  |
|  |  | S3‑222866 | 33.700-28: Assumptions | Xiaomi Technology | pCR | [Ericsson] : Comments and proposes changes before approval.  [Xiaomi]: provides r1 | available |  |
|  |  | S3‑222476 | Key issue on security enhancement with discontinuous satellite coverage | Huawei, HiSilicon | pCR | [Xiaomi]: proposes to merge 2476 into 2867 and 2868  [Huawei]: Propose to merge this into 2476 and provide r1 in the draft folder.  [ChinaTelecom]: Ask clarification  [Ericsson] : asks for clarifications.  [Huawei]: provides clarification and r2. | available |  |
|  |  | S3‑222581 | Key issue on Security for Satellite Coverage Information provisioning | China Telecom Corporation Ltd. | pCR | [Xiaomi]: proposes to merge 2581 into 2867  [ChinaTelecom]: reply the comments from Xiaomi.  [Huawei]: propose to merge S3-222581 into S3-222476, taking S3-222476 as basis.  [Ericsson] : proposes to merge 2581 into 2476. | available |  |
|  |  | S3‑222867 | 33.700-28: New Key Issue on Protection of Satellite Coverage Information used by the UE | Xiaomi Technology | pCR | [ChinaTelecom]: provides comments and proposes to merge with S3-222581 and S3-222868 and S3-222476.  [Huawei]: propose to merge 2867 into 2476 by taking 2467 as the baseline.  [Xiaomi]: provides responses and asks question for clarification  [Ericsson] : proposes to merge to 2476.  [Xiaomi]: provides further comments | available |  |
|  |  | S3‑222868 | 33.700-28: New Key Issue on Protection of Satellite Coverage Information used by 5GC/EPC | Xiaomi Technology | pCR | [ChinaTelecom]: provides comments and proposes to merge with S3-222581 and S3-222867 and S3-222476.  [Huawei]: don’t agree with merging 2868 into others. This could be treated separately. Propose to revise 2868.  [Xiaomi]: proposes to treat 2868 separately, provides responses and r1  [Ericsson]: proposes changes before approval.  [Xiaomi]: provides responses and r2 | available |  |
|  |  | S3‑222898 | New KI on AF authorization in Satellite access scenarios | Xiaomi Communication | pCR | [Ericsson] : Proposes to note as aspects of this key issue are included in other key proposals. | 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 |  |