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| **Agenda** | **Topic** | **TDoc** | **Title** | **Source** | **Type** | **Notes** | **Decision** | **Replaced-by** |
| 1 | Agenda and Meeting Objectives | S3‑220601 | Agenda | WG Chair | agenda | >>CC\_1<<  [Chair] presents  >>CC\_1<< | available |  |
|  |  | S3‑220603 | Process for SA3#107e meeting | WG Chair | other | >>CC\_1<<  [Chair] presents  >>CC\_1<< | available |  |
|  |  | S3‑220606 | Process and agenda for SA3#107e | WG Chair | other | >>CC\_1<<  [Chair] presents  >>CC\_1<< | revised | [S3‑221142](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-221142) |
|  |  | S3‑221142 | Process and agenda for SA3#107e | WG Chair | other | >>CC\_1<<  [Chair] presents  >>CC\_1<< | available |  |
| 2 | Meeting Reports | S3‑220602 | Report from SA3#106e | MCC | report | >>CC\_1<<  [Chair] presents  >>CC\_1<< | available |  |
|  |  | S3‑220604 | Report from last SA | WG Chair | report | >>CC\_1<<  [Chair] presents  [Ericsson] asks whether SA3 report could be checked before SA plenary submission.  **1st challenge deadline and would be noted.**  [Ericsson] asks when would be made decision for Nov. meeting.  [Chair] it has not been decided yet.  >>CC\_1<< | available |  |
|  |  | S3‑220605 | Meeting notes from SA3 leadership | WG Chair | report |  | reserved |  |
| 3 | Reports and Liaisons from other Groups | S3‑220608 | LS to 3GPP CT4 on Identification of source PLMN-ID in SBA | GSMA | LS in | >>CC\_1<<  [Chair] presents and asks to move forward.  [Ericsson] proposes to note  [Huawei] has similar comments  [Chair] asks do we need a reply in this meeting or later  [Huawei] if the LS is replied, it should be made in this meeting.  [Ericsson] how to treat it based on discussion in this week.  [Chair] will keep this LS pending  >>CC\_1<< | available |  |
|  |  | S3‑220649 | Reply LS on User Controlled PLMN Selector with Access Technology in Control plane solution for steering of roaming in 5GS | S1-220187 | LS in | >>CC\_1<<  [VC] presents.  [Chair] proposes to note  **1st challenge deadline**  >>CC\_1<< | available |  |
|  |  | S3‑220648 | LS on new parameters for SOR | C1-214118 | LS in | >>CC\_1<<  [NTT Docomo] presents and proposes to note.  [Chair] proposes to note  **1st challenge deadline**  >>CC\_1<< | available |  |
|  |  | S3‑220651 | Reply LS on UE capabilities indication in UPU | C1-223177 | LS in | [Nokia]:Nokia is proposing to note the LS  >>CC\_1<<  [Ericsson] presents and proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220660 | LS on 3GPP TS 29.244 | BBF | LS in | >>CC\_1<<  [Ericsson] presents and proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑221147 | LS on 3GPP TS 29.244 | BBF | LS in | >>CC\_1<<  [Ericsson] presents and proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220666 | Reply LS on LTE User Plane Integrity Protection | R2-2203663 | LS in | [Nokia]: Propose to note this LS.  >>CC\_1<<  [VC] presents  [Huawei] there are CRs related with this LS. Proposes to keep it open.  [Chair] keep the LS open.  >>CC\_1<< | available |  |
|  |  | S3‑220667 | LS on EPS fallback enhancements | R2-2204236 | LS in | >>CC\_1<<  [VC] presents  >>CC\_1<< | available |  |
|  |  | S3‑220668 | Reply LS on EPS fallback enhancements | S2-2203590 | LS in | >>CC\_1<<  [VC] presents  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220879 | Disucssion on security aspect of EPS fallback enhancements in Rel-17 | Huawei, HiSilicon | discussion | >>CC\_1<<  [Huawei] presents and has another reply LS.  [Huawei] there are 3 contributions and not too much difference. Need to choose one as baseline.  [QC] proposes to note discussion paper.  [Chair] proposes to note the discussion papers  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220880 | LS to RAN2 on EPS fallback enhancements | Huawei, HiSilicon | LS out | [Ericsson]: As discussed in the 1st teleconference this contribution is merged to S3-221064. | available |  |
|  |  | S3‑221064 | Reply LS on EPS fallback enhancements | Ericsson | LS out | [Nokia]: Agree and propose to merge with S3-221109.  >>CC\_1<<  [Ericsson] comments to agree there is security problem but does not need to have a study to enhancement, so proposes to use Ericsson’s as baseline.  [Huawei] is fine to use Ericsson’s as baseline.  [Apple] is fine to mention security issue.  [Chair] requests Ericsson to hold the pen.  >>CC\_1<< | available |  |
|  |  | S3‑221109 | Reply LS on EPS fallback enhancements | Nokia Corporation | LS out | >>CC\_1<<  [Nokia] presents  >>CC\_1<< | available |  |
|  |  | S3‑221110 | Discussion on LS on EPS fallback enhancements | Nokia Corporation | discussion | >>CC\_1<<  [QC] proposes to note discussion paper.  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220669 | Reply LS on User Plane Integrity Protection for eUTRA connected to EPC | R3-222610 | LS in | >>CC\_1<<  [QC] presents  [VF] comments for clarification  [QC] could not confirm  [Huawei] proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220670 | Reply LS on UE providing Location Information for NB-IoT | C1-222100 | LS in | >>CC\_1<<  [VC] presents and proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220671 | Reply LS on UE providing Location Information for NB-IoT | R3-222858 | LS in | >>CC\_1<<  [Ericsson] presents and proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220672 | LS Response to LS on UE providing Location Information for NB-IoT | S2-2201333 | LS in | >>CC\_1<<  [Ericsson] presents and proposes to note  [Chair] proposes to note  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220673 | LS on V2X PC5 link for unicast communication with null security algorithm | R5-222035 | LS in | >>CC\_1<<  [Huawei] presents and proposes to postpone or wait CT1’s reply  [Lenovo] clarifies the issue, and comments some actions are needed.  [Lenovo] replies there should be a CR and reply this LS  [Chair] proposes to postpone to next meeting and requests to bring a CR to fix it.  **1st challenge deadline.**  >>CC\_1<< | available |  |
|  |  | S3‑220674 | Reply LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT | S1-220185 | LS in | >>CC\_1<<  [VC] presents.  [Chair] proposes to note  [Ericsson] comments no need to reply this, but need to discuss in SA3 how to handle this.  [Chair] proposes to discuss in email.  >>CC\_1<< | available |  |
|  |  | S3‑220678 | LS reply on RAN2 agreements for paging with service indication | S2-2201838 | LS in |  | available |  |
|  |  | S3‑220680 | LS on MINT functionality for Disaster Roaming | S5-222575 | LS in |  | available |  |
|  |  | S3‑220682 | LS on Inter-PLMN Handover of VoLTE calls and idle mode mobility of IMS sessions | S3i220244 | LS in |  | available |  |
|  |  | S3‑220683 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | other | >>CC\_1<<  [IDCC] presents  >>CC\_1<< | available |  |
|  |  | S3‑220662 | LS on UE location during initial access in NTN | R2-2201881 | LS in |  | available |  |
|  |  | S3‑220665 | LS on UE location in connected mode in NTN | R2-2204257 | LS in | [Huawei]: Propose to reply, e.g. 221063 with some modifications | available |  |
|  |  | S3‑220664 | Reply LS on UE location during initial access in NTN | R3-222861 | LS in |  | available |  |
|  |  | S3‑221081 | NTN - Reply LS on UE location in connected mode in NTN(R2-2204257) | Apple | LS out | [Nokia]: Proposal to merge with S3-221106.  [Huawei]: propose to note this LS rather than merging.  [Qualcomm]: propose to note | available |  |
|  |  | S3‑221106 | Reply LS on UE location in connected mode in NTN | Nokia Corporation | LS out | [Huawei]: Propose to note this LS.  [Qualcomm]: proposes to note. | available |  |
|  |  | S3‑221082 | NTN - Reply LS on NTN specific user consent (R2-2201754) | Apple | LS out | [Nokia]: Proposal to merge with S3-221107.  [Huawei]: Should be taken as the baseline for reply LS which is S3-220661.  [Qualcomm]: propose to note or merge with S3-221063.  >>CC\_2<<  [Apple] presents  [Nokia] agrees with Apple’s proposal  [Ericsson] 2 comments. The version is r5 in last meeting that Ericsson doesn’t agree. Should merge reply for this LS on UE location information about user consent.  [QC] comments as email discussion.  [Nokia] merging is still ok but 1063 is not good base to merge. Has concern to solve in R17.  [Xiaomi] supports QC.  [Huawei] doesn’t agree to merge LS out as they are reply to different LS in.  [Chair] proposes way forward.  [Huawei] proposes to make 2 LS out, 1 is merging from Apple and Nokia contribution and the other is merging from Ericsson.  [CableLabs] comments it is easy to reply if reply separately.  [Apple] The topic is totally different. Mix them together will be too complex to answer.  >>CC\_2<< | available |  |
|  |  | S3‑221107 | Reply LS on Reply LS on NTN specific User Consent | Nokia Corporation | LS out | [Huawei]: Not OK with the 3rd paragraph. | available |  |
|  |  | S3‑221063 | LS reply on UE location in connected mode in NTN | Ericsson | LS out | [Huawei]: Generally fine with it but requires more addition.  [Qualcomm]: supports using this as the baseline for further discussion  [Ericsson]: provides r1 with the proposed changes by Huawei.  >>CC\_2<<  [Chair] request Ericsson to hold the pen.  >>CC\_2<< | available |  |
|  |  | S3‑220609 | LS on new parameters for SOR | C1-214118 | LS in |  | revised | [S3‑220648](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220648) |
|  |  | S3‑220610 | Reply LS on User Controlled PLMN Selector with Access Technology in Control plane solution for steering of roaming in 5GS | S1-220187 | LS in |  | revised | [S3‑220649](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220649) |
|  |  | S3‑220612 | Reply LS on UE capabilities indication in UPU | C1-223177 | LS in |  | revised | [S3‑220651](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220651) |
|  |  | S3‑220621 | LS on 3GPP TS 29.244 | BBF | LS in |  | revised | [S3‑220660](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220660) |
|  |  | S3‑220623 | LS on UE location during initial access in NTN | R2-2201881 | LS in |  | revised | [S3‑220662](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220662) |
|  |  | S3‑220624 | LS on UE location during initial access in NTN | R2-2202057 | LS in |  | revised | [S3‑220663](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220663) |
|  |  | S3‑220625 | Reply LS on UE location during initial access in NTN | R3-222861 | LS in |  | revised | [S3‑220664](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220664) |
|  |  | S3‑220626 | LS on UE location in connected mode in NTN | R2-2204257 | LS in |  | revised | [S3‑220665](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220665) |
|  |  | S3‑220627 | Reply LS on LTE User Plane Integrity Protection | R2-2203663 | LS in |  | revised | [S3‑220666](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220666) |
|  |  | S3‑220628 | LS on EPS fallback enhancements | R2-2204236 | LS in |  | revised | [S3‑220667](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220667) |
|  |  | S3‑220629 | Reply LS on EPS fallback enhancements | S2-2203590 | LS in |  | revised | [S3‑220668](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220668) |
|  |  | S3‑220630 | Reply LS on User Plane Integrity Protection for eUTRA connected to EPC | R3-222610 | LS in |  | revised | [S3‑220669](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220669) |
|  |  | S3‑220631 | Reply LS on UE providing Location Information for NB-IoT | C1-222100 | LS in |  | revised | [S3‑220670](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220670) |
|  |  | S3‑220632 | Reply LS on UE providing Location Information for NB-IoT | R3-222858 | LS in |  | revised | [S3‑220671](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220671) |
|  |  | S3‑220633 | LS Response to LS on UE providing Location Information for NB-IoT | S2-2201333 | LS in |  | revised | [S3‑220672](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220672) |
|  |  | S3‑220634 | LS on V2X PC5 link for unicast communication with null security algorithm | R5-222035 | LS in |  | revised | [S3‑220673](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220673) |
|  |  | S3‑220635 | Reply LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT | S1-220185 | LS in |  | revised | [S3‑220674](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220674) |
|  |  | S3‑220639 | LS reply on RAN2 agreements for paging with service indication | S2-2201838 | LS in |  | revised | [S3‑220678](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220678) |
|  |  | S3‑220641 | LS on MINT functionality for Disaster Roaming | S5-222575 | LS in |  | revised | [S3‑220680](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220680) |
|  |  | S3‑220663 | LS on UE location during initial access in NTN | R2-2202057 | LS in |  | withdrawn |  |
| 4 | Work areas |  |  |  |  |  |  |  |
| 4.1 | New WID on Security Assurance Specification for Management Function (MnF) | S3‑220885 | 33.926-Clarifications of the scope of OAM functions in the GNP model | Huawei, HiSilicon | draftCR |  | available |  |
|  |  | S3‑220886 | 33.926-Rewrite the 5G MnF GNP model | Huawei, HiSilicon | draftCR | [Nokia]: provides comments and requires potential revise before approval | available |  |
|  |  | S3‑220887 | 33.926-Add new assets to the OAM functions | Huawei, HiSilicon | draftCR | [Nokia]: provides comments | available |  |
|  |  | S3‑220888 | 33.926-Add a new threat | Huawei, HiSilicon | draftCR | [Nokia]: provides comments and ask clarification | available |  |
|  |  | S3‑220889 | 33.526 - update clause 4.2.3 | Huawei, HiSilicon | pCR | [Nokia]: ask clarification | available |  |
|  |  | S3‑220890 | 33.526 - update clause 4.2.4 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220891 | 33.526 - update clause 4.2.5 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220893 | Living document for MnF SCAS: draftCR to TR 33.926 | Huawei, HiSilicon | draftCR |  | available |  |
| 4.2 | New WID on SECAM and SCAS for 3GPP virtualized network products | S3‑220840 | Modfiy Scope of TR 33.936 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220781 | adding overview and Scope of a SECAM SCAS for 3GPP virtualized network products | China Mobile | pCR |  | available |  |
|  |  | S3‑220782 | adding Scope of SECAM evaluation and accreditation for 3GPP virtualized network products | China Mobile | pCR |  | available |  |
|  |  | S3‑220783 | adding the contents of chapters 4.5 to 4.7 | China Mobile | pCR |  | available |  |
|  |  | S3‑220784 | adding the contents of chapters 4.8 to 4.10 | China Mobile | pCR |  | available |  |
|  |  | S3‑220785 | adding content to clause 5.1 | China Mobile | pCR |  | available |  |
|  |  | S3‑220786 | Adding description about general content of SCAS document and ToE to clause 5.2 | China Mobile | pCR |  | available |  |
|  |  | S3‑220787 | adding description about SPD to clause 5.2 | China Mobile | pCR |  | available |  |
|  |  | S3‑220788 | adding description about methodology of security requirements to clause 5.2 | China Mobile | pCR |  | available |  |
|  |  | S3‑220789 | adding description about improvement of SCAS and new potential security requirements to clause 5.3 | China Mobile | pCR |  | available |  |
|  |  | S3‑220790 | adding description about basic vulnerability testing requirements for GVNP to clause 5.4 | China Mobile | pCR | [Nokia] requests clarification.  [CMCC] provides clarification | available |  |
|  |  | S3‑220841 | Modfiy Scope of TS 33.927 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220775 | Proposal to add overview in clause 4 Generic Virtulizated Network Product(GVNP) class | China Mobile | pCR |  | available |  |
|  |  | S3‑220776 | Proposal to add clause 4.2 Minimum set of functions defining the GVNP class | China Mobile | pCR |  | available |  |
|  |  | S3‑220777 | Proposal to add introduction in clause 4.3 Generic virtualized network product model | China Mobile | pCR |  | available |  |
|  |  | S3‑220778 | Proposal to add GVNP model of type 1 | China Mobile | pCR | [CMCC] provides draft\_S3-220778-r1 | available |  |
|  |  | S3‑220769 | Supplement to generic virtualised network product model | China Telecom Corporation Ltd. | pCR | [CMCC] proposes to merge into 778 and not introduce OAM requirement currently  [China Telecom]: Agree with the merger.  [CMCC] provides draft\_S3-220778-r1  [China Telecom] Fine with r1. | available |  |
|  |  | S3‑220779 | Proposal to add GVNP model of type 2 | China Mobile | pCR |  | available |  |
|  |  | S3‑220780 | Proposal to add GVNP model of type 3 | China Mobile | pCR |  | available |  |
|  |  | S3‑220839 | Modfiy Scope of TS 33.527 | Huawei, HiSilicon | pCR | [CMCC] does not agree with this contribution.  [Nokia] requests clarification.  [CMCC] discusses in detail. | available |  |
| 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 | S3‑220739 | Adding a test case for gNB in TS 33.511 clause 4.2.2.1.4 | ZTE Corporation | CR | [Ericsson]: proposes to note it. | available |  |
|  |  | S3‑221090 | New threat on Kausf handing | Huawei,HiSilicon | draftCR |  | available |  |
|  |  | S3‑221091 | threat modifications for token verification | Huawei,HiSilicon | draftCR |  | available |  |
|  |  | S3‑221092 | threat modifications for SEPP | Huawei,HiSilicon | draftCR |  | available |  |
| 4.5 | New WID on Security Assurance Specification for the Authentication and Key Management for Applications (AKMA) Anchor Function Function (AAnF) | S3‑220689 | New test case for confidentiality, integrity and replay protection between AAnF and AUSF | Keysight Technologies UK Ltd | pCR | [Nokia]:Clarification asked and propose changes.  [Keysight]: Clarification to Nokia  [Keysight]: Clarification made  [Nokia]: clarification provided  [Keysight]: Provided solution  [Keysight]: Provided revision  [Nokia]: fine with the revision | available |  |
|  |  | S3‑220690 | New threat for confidentiality, integrity and replay between AAnF and AUSF | Keysight Technologies UK Ltd | CR | MCC commented that the CR didn’t have any revision marks.  [Keysight]: Modification as MCC commented. Rev1 available in folder. | available |  |
|  |  | S3‑220691 | New test case for confidentiality, integrity and replay protection between AF/NEF and AAnF | Keysight Technologies UK Ltd | pCR | [Nokia]:Clarification asked and propose changes.  [Keysight]: Clarification to Nokia  [Nokia]: Clarification asked and propose changes.  [Keysight]: Revision provided  [Nokia]: agree with the revision. | available |  |
|  |  | S3‑220692 | New threat for confidentiality, integrity and replay between AAnF and AF/NEF | Keysight Technologies UK Ltd | CR | MCC commented that the CR didn’t have any revision marks.  [Keysight]: Modification as MCC commented. Rev1 available in folder. | available |  |
|  |  | S3‑220741 | Adding AAnF critical assets and threats to TS 33.926 | ZTE Corporation | CR |  | withdrawn |  |
|  |  | S3‑220742 | Adding Network product class description for the AAnF to TS 33.926. | ZTE Corporation | CR |  | withdrawn |  |
|  |  | S3‑220743 | AKMA subscription asynchronization\_Test\_Case | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220767 | Adding AAnF critical assets and threats to TS 33.926 | ZTE Corporation | draftCR |  | available |  |
|  |  | S3‑220768 | Adding Network product class description for the AAnF to TS 33.926 | ZTE Corporation | draftCR |  | available |  |
|  |  | S3‑220808 | Skeleton for TS33.537(SCAS for AAnF) | China Mobile | draft TS |  | available |  |
|  |  | S3‑220809 | Scope of TS 33.537 | China Mobile | pCR |  | available |  |
| 4.6 | New WID on SCAS for split-gNB product classes | S3‑220988 | Proposed skeleton for TS 33.742 | Qualcomm Incorporated | other | [Deutsche Telekom]:agrees on the proposed skeleton for TS33.742.  [Huawei] proposes to remove the SBA related clauses or mark as not applicable from the start since all the target NPs do not support SBIs anyway. | available |  |
|  |  | S3‑220989 | Proposed scope for TS 33.742 | Qualcomm Incorporated | other | [Deutsche Telekom]:agrees on the proposed scope for TS33.742 | available |  |
|  |  | S3‑220990 | Discussion on how to document test cases in TS 33.742 | Qualcomm Incorporated | discussion | [Deutsche Telekom]:provides view on TS33.742/TS33.511 alignment  [Huawei] comments that there is no need to endorse anything and that the first approach is more in line with the drafting rules | available |  |
| 4.7 | Security Aspects of Proximity based services in 5GS ProSe (Rel-17) | S3‑220679 | Reply to LS on new reference point name for the interface between PKMF and UDM in 5G ProSe | S2-2203018 | LS in |  | available |  |
|  |  | S3‑221003 | pCR to TS33.503 Abbreviations update | CATT | pCR |  | available |  |
|  |  | S3‑220966 | Reference point name | Ericsson | pCR |  | available |  |
|  |  | S3‑221005 | pCR to TS33.503 Clause 4.2 Update reference point name between 5G PKMF and UDM | CATT | pCR | [Ericsson] : provides question on merging documents  [CATT]: Fine with the merger proposal. Further discussion moved to S3-220966. | available |  |
|  |  | S3‑221025 | 33.503: Updates in Clause 4.2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑221026 | 33.503: Updates in Clause 5.2.5 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220847 | Clarification on restricted discovery procedures | Huawei, HiSilicon | pCR | [Qualcomm]: requests clarifications and revision before approval  [Huawei, HiSilicon]: Provides r1 and replies to the comments. | available |  |
|  |  | S3‑220851 | Add subclause about the restricted discovery for UE-to-Network relay | Huawei, HiSilicon | pCR | [Qualcomm]: proposes to merge it into 221000 or proposes to use 221000 for relay discovery procedure  [Xiaomi]: proposes revision or merging  [Huawei, HiSilicon]: Reply to Qualcomm.  [Xiaomi]: agrees with the observation from Huawei, provides further comments and proposes revision or merging with 1141 | available |  |
|  |  | S3‑220997 | CR to ProSe TS – An update on MIC calculation for discovery message | Qualcomm Incorporated | pCR | [Huawei, HiSilicon]: clarification is needed before approval. | available |  |
|  |  | S3‑220998 | CR to ProSe TS – Clarification on discovery message protection | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑221000 | Update on 5G ProSe restricted discovery procedure for U2N relay | Qualcomm Incorporated | pCR | [Xiaomi]: Provides comments and asks questions which are to be clarified before approval | available |  |
|  |  | S3‑221027 | 33.503: Updates in Clause 6.1.3.2 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑221028 | 33.503: Clarifiacation on MIC Check in Open Discovery | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑221029 | 33.503: General Description for ProSe U2N Relay Discovery Security | Xiaomi Technology | pCR | [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response, and requests more technical discussion on the requirements before noting, as QC’s comment is on the solution and this paper is NOT about solution. | available |  |
|  |  | S3‑221030 | 33.503: Add Security Requirement for ProSe U2N Relay Discovery | Xiaomi Technology | pCR | [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response, and requests more discussion on the applicability of reusing direct discovery procedure before noting. | available |  |
|  |  | S3‑221031 | 33.503: Control Plane based Security Procedure for ProSe U2N Relay Discovery | Xiaomi Technology | pCR | [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response, and requests more technical discussion on the solution before noting. | available |  |
|  |  | S3‑221032 | 33.503: User Plane based Security Procedure for ProSe U2N Relay Discovery | Xiaomi Technology | pCR | [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response, and requests more technical discussion on the solution before noting. | available |  |
|  |  | S3‑221033 | 33.503: Derivation of Discovery Keys for ProSe U2N Relay Discovery | Xiaomi Technology | pCR | [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response, and requests more technical discussion on the solution before noting. | available |  |
|  |  | S3‑221141 | Relay Discovery clarifications | Philips International B.V. | pCR | [Qualcomm]: proposes to merge it into 221000  [Xiaomi]: propose revision of this paper and does not agree to merge it into 1000.  [Huawei, HiSilicon]: propose a potential revision idea of this paper. | available |  |
|  |  | S3‑220874 | Security capability negotiation during unicast establishment after restricted discovery | Huawei, HiSilicon | pCR | [Qualcomm]: provides comments, requires a clarification before approval  [Huawei, HiSilicon]: provides clarifications to Qualcomm. | available |  |
|  |  | S3‑220968 | Rephrasing Clause 6.2.1 to emphasize that security parameters for PC5 Direct Communication are determined during Direct Discovery | Ericsson | pCR | [Xiaomi]: proposes to note the paper  [Qualcomm]: suggests a revision | available |  |
|  |  | S3‑220969 | Restructure of security requirements for 5G ProSe UE-to-network relay | Ericsson | pCR | [Huawei, HiSilicon]: this contribution should be noted. | available |  |
|  |  | S3‑221007 | pCR to TS33.503 Clause 6.3 Update security requirements of UE-to-Network Relay | CATT | pCR | [Huawei, HiSilicon]: this contribution should be revised before approval. | available |  |
|  |  | S3‑221012 | pCR to TS33.503 Clause 6.3 Update security requirements of Layer-3 UE-to-Network Relay | CATT | pCR | [Huawei, HiSilicon]: this contribution should be revised before approval. | available |  |
|  |  | S3‑221013 | pCR to TS33.503 Clause 6.3 Remove unnecessary description from UP-based and CP-based procedures | CATT | pCR |  | available |  |
|  |  | S3‑221015 | pCR to TS33.503 Clause 6.3 Solution for co-existence of UP and CP security options | CATT | pCR |  | available |  |
|  |  | S3‑221034 | 33.503: Updates to General Security Requirements for U2N Relay Communication | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑221035 | 33.503: Updates to Security Requirements for U2N Relay Communication via L3 Relay UE | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑221036 | Discussion on PC5 Key Hierarchy for ProSe U2N Relay Communication | Xiaomi Technology | discussion |  | available |  |
|  |  | S3‑220746 | Remove the EN in the clause 6.3.3.2.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220842 | Adding UDM Services for SUCI deconceal and authorization information retrieval | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220843 | Remote UE Identity provisioning in UE-to-Network Relay communication security procedure over user plane | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220869 | Clarification on PRUK ID | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220881 | Clarification on the description of PRUK | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220967 | Remote UE Report in UP based solution | Ericsson | pCR | [Huawei, HiSilicon]: clarification is needed before approval.  [Ericsson]: replies to Huawei’s comments | available |  |
|  |  | S3‑220971 | Discussion on UE ID privacy for Remote UE Report | Ericsson | discussion |  | available |  |
|  |  | S3‑220972 | PLMN ID in Direct Security Mode Failure | Ericsson | pCR | [China Telecom]: requests revision before approval | available |  |
|  |  | S3‑220973 | KNRP key derivation | Ericsson | pCR | [Ericsson] : provides question on merge of documents  [Qualcomm]: is fine with the merging proposal | available |  |
|  |  | S3‑220994 | PC5 security policy provisioning for user-plane L3 U2N relay solution | Qualcomm Incorporated, Ericsson | pCR | [Xiaomi]: Propose to note the paper, as the changes in the paper are not aligned with the corresponding requirement | available |  |
|  |  | S3‑220995 | Clarification on the PC5 link establishment for user-plane L3 U2N relay solution | Qualcomm Incorporated | pCR | [Huawei, HiSilicon]: This contribution can be revised before approval.  [China Telecom]: Generally fine with this contribution and add some proposal.  [Ericsson] : provides comments and questions  [Xiaomi]: asks questions for clarification  [Qualcomm]: provides responses.  [Xiaomi]: provides response to the clarification and requests more clarification before approval. | available |  |
|  |  | S3‑220999 | CR to ProSe TS – Removing an Editor’s Note in user plane based U2N procedure | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑221001 | CR to ProSe TS - Clarification on Knrp derivation for U2N relay over user plane | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑221037 | Discussion on Security for ProSe U2N Relay Communication over User Plane | Xiaomi Technology | discussion |  | available |  |
|  |  | S3‑221038 | 33.503: Update to Security Procedure over User Plane | Xiaomi Technology, China Telecom | pCR |  | available |  |
|  |  | S3‑221039 | 33.503: PRUK Derivation for ProSe U2N Relay Security over User Plane | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑221140 | UP based security selection | Nokia, Nokia Shanghai Bell, Interdigital, LGE, Samsung | pCR | [Xiaomi]: provides comments and requires clarification before approval  [China Telecom]: propose to postpone this issue to R18 SID | available |  |
|  |  | S3‑220706 | Clarify relationship between KAUSF, KAUSF\_P and 5G PRUK | China Telecomunication Corp. | pCR |  | available |  |
|  |  | S3‑220707 | Clarify the necessity of refreshing 5G PRUK during CP-based Security Procedure | China Telecomunication Corp. | pCR |  | available |  |
|  |  | S3‑220734 | Update Security procedure over CP with using PRUK ID in DCR | InterDigital, Europe, Ltd.,, Samsung, LG Electronics, Nokia, Nokia Shanghai Bell, Ericsson, Verizon Wireless, MITRE, Convida Wireless LLC, Philips International B.V. | pCR | >>CC\_1<<  [IDCC] presents  [Huawei] disagrees with this proposal. Key derivation should be done in existing NF rather than PAnF.  [CATT] objects with 8 concerns.  [IDCC] asks the clear position from Huawei and CATT.  [Huawei] and [CATT] clarifies  [Chair] clarifies the status and way forward methodology, and asks whether compromise can be made.  [CATT] clarifies the position..  [IDCC] clarifies.  [CATT] withdraws objecting to introduce new anchor function  [Chair] now there is consensus to introduce new anchor function.  [IDCC] presents further.  [Huawei] can accept using AUSF only to access the key / visit PAnF. (894 is discussion paper to show the reason)  [CATT] has similar view as Huawei. can make solution as simple as possible, by reusing routing ID.  [IDCC] clarifies.  [Chair] asks whether compromise can be made.  [Ericsson] comments, the concern from Huawei and CATT is not severe  [Chair] as the meeting suddenly interrupted, the question should goes to email list and discussed for tomorrow session to make show of hands  [CATT] asks about show of hands.  [Chair] clarifies show of hands to decides working agreement. Any resolution based on WA will go to SA plenary.  [CATT] asks to set question about support CP based solution or not.  [Chair] request to discuss the question on email list.  >>CC\_1<< | available |  |
|  |  | S3‑220735 | 5GPRUK/5GPRUK ID Storage Options and Way Forward | InterDigital, Europe, Ltd., Ericsson | discussion |  | available |  |
|  |  | S3‑220736 | PAnF supported services discussion | InterDigital, Europe, Ltd. | discussion | [Huawei, HiSilicon]: Propose to use another Discussion Paper in S3-220894 as the baseline to discuss the CP solutions.  [Interdigital]: replies to Huawei. Ok to continue discussion in S3-220894. | available |  |
|  |  | S3‑220737 | Update Security procedure over CP with using PRUK ID in DCR (alt#2) | InterDigital, Europe, Ltd. | pCR | [Huawei, HiSilicon]: Ask for clarification about the purpose of sending 5GPRUK ID to the U2NW relay.  [LGE]: provides feedback to Huawei.  [Huawei, HiSilicon]: provides clarification and re-formulate the question.  [ZTE]: Ask for clarification.  [LGE]: provides feedback to Huawei and ZTE.  [Interdigital]: provides additional feedback to Huawei and ZTE. Thanks LGE (Dongjoo) for earlier clarifications. | available |  |
|  |  | S3‑220744 | Add some context about 5G PRUK ID reject cases in the clause 6.3.3.3.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220745 | Clarification on AUSF instance store in UDM | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220747 | Update the clause 6.3.3.3.3 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220815 | EN resolution for Secondary Authentication for Remote UE with L3 U2N relay without N3IWF(Alt1) | LG Electronics Inc. | pCR | [Huawei, HiSilicon]: Ask for clarification before approval. | available |  |
|  |  | S3‑220816 | EN resolution for Secondary Authentication for Remote UE with L3 U2N relay without N3IWF(Alt2) | LG Electronics Inc. | pCR | [Huawei, HiSilicon]: Ask for clarification before approval.  [LGE]: provides feedback to Huawei(He). | available |  |
|  |  | S3‑220817 | Revocation\_ReAuth for Secondary Authentication for Remote UE | LG Electronics Inc. | pCR | [Huawei, HiSilicon]: Ask for clarification before approval.  [LGE]: provides feedback to Huawei(He). | available |  |
|  |  | S3‑220827 | Delete of CP based solution | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220828 | Delete of Secondary authentication | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220829 | Address EN of secondary authentication | Huawei, HiSilicon | pCR | [Interdigital]: provides comments and raises concerns on Remote UE SUPI storage in Relay AMF and questions on Remote UE identification in NAS messages  [Huawei]: provides clarification. | available |  |
|  |  | S3‑220844 | Remote UE authorization check in UE-to-Network Relay communication security procedure over control plane | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220845 | Resolving the EN on the needs and usage of 5GPRUK ID | Huawei, HiSilicon | pCR | >>CC\_1<<  [IDCC] comments.  >>CC\_1<< | available |  |
|  |  | S3‑220846 | Format of 5GPRUK ID | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220850 | Key derivation related clarification in CP-based UE-to-Network relay procedures | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220852 | Terminology alignment for 5G ProSe Remote UE specific authentication | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220868 | Clarification on KAUSF\_P | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220882 | Clarification on the secondary authentication procedure | Huawei, HiSilicon | pCR | [Interdigital]: provides comments and raises concerns on Remote UE identification mechanism in NAS SM messages.  [Huawei]: provides clarification.  [LGE]: provides comments and asks for a revision. | available |  |
|  |  | S3‑220883 | Update general clause for secondary authentication | Huawei, HiSilicon | pCR | [LGE]: revision required before approval | available |  |
|  |  | S3‑220894 | Discussion for key storage and derivation in UE-to-Network security procedure over Control Plane | Huawei, HiSilicon | pCR | >>CC\_1<<  [Huawei] presents.  >>CC\_1<<  [Ericsson] : provides some view and comments to the DP  [Huawei, HiSilicon]: provides reply to the comments from Ericsson.  [Ericsson]: provides response to the comments from Huawei. | available |  |
|  |  | S3‑220934 | Security protocol over CP with 5G AKA to establishPC5 keys | THALES | pCR |  | available |  |
|  |  | S3‑220936 | Security protocol over CP with 5G ProSe security context in the USIM | THALES | pCR |  | available |  |
|  |  | S3‑220965 | Corrections to CP based solution | Ericsson | pCR |  | available |  |
|  |  | S3‑220970 | Remote UE Report in CP based solution | Ericsson | pCR | [Huawei, HiSilicon]: clarification is needed before approval.  [Ericsson]: replies to Huawei’s comments | available |  |
|  |  | S3‑221014 | pCR to TS33.503 Clause 6.3 Clarification text for Kausf\_p | CATT | pCR |  | available |  |
|  |  | S3‑221016 | pCR to TS33.503 Clause 6.3 Update security procedure over Control Plane | CATT | pCR |  | available |  |
|  |  | S3‑221137 | CP based security selection | Nokia, Nokia Shanghai Bell, Interdigital, LGE, Samsung | pCR | [Xiaomi]: provides comments and requires clarification before approval | available |  |
|  |  | S3‑221138 | derive 5GPRUK based on Kausf\_p | Nokia, Nokia Shanghai Bell, Interdigital, LGE, Samsung | pCR |  | available |  |
|  |  | S3‑221139 | authorization of remote UE | Nokia, Nokia Shanghai Bell, Interdigital, LGE, Samsung | pCR | [Ericsson] : provides questions and comments  [Xiaomi]: provides more comments and questions for clarification | available |  |
|  |  | S3‑220848 | Clarification on the security of L2 U2NW | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221040 | 33.503: Updates in Clause 6.3.4 | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220825 | Integrity protection of DCR message | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220826 | Clarification on the privacy protection of DCR | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220996 | CR to ProSe TS - Address the Editor’s Notes in clause 6.3.5 | Qualcomm Incorporated | pCR | [Huawei]: propose use this contribution as basline to merge S3-220825. | available |  |
|  |  | S3‑220748 | Update the clause 7.4.2 | ZTE Corporation | pCR | [Ericsson] : provides comment and requires update  [ZTE]: Provide R1. | available |  |
|  |  | S3‑220830 | Add a new clause for 5G ProSe Layer-3 UE-to-Network Relay with N3IWF support | Huawei, HiSilicon | pCR | [LGE]: clarification and revision required before approval | available |  |
|  |  | S3‑220974 | CR for Prose changes to TS 33.220 in Rel-17 | Ericsson | CR | [Qualcomm]: suggests to request FC values allocation at once (e.g., by Rapporteur) | available |  |
|  |  | S3‑221006 | pCR to TS33.503 Wording update | CATT | pCR |  | available |  |
|  |  | S3‑220640 | Reply to LS on new reference point name for the interface between PKMF and UDM in 5G ProSe | S2-2203018 | LS in |  | revised | [S3‑220679](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220679) |
|  |  | S3‑220855 | Clarification | Huawei, HiSilicon | pCR |  | withdrawn |  |
|  |  | S3‑221149 | 5G Prose questions on CP for show-of-hands | Interdigital,CATT | other | [Interdigital]: announce initial draft for CP contentious issues and SoH questions  >>CC\_offlineProSeCall<<  [IDCC] presents  [Chair] asks whether this question could make merger easier.  [IDCC] confirms.  [IDCC] figures out Q1 is more important.  [Oppo] comments  [IDCC] clarifies  [Chair] asks whether Q1 & Q2 are for CP based solution  [IDCC] clarifies  [Chair] asks whether Q1 & Q2 has higher priority.  [CATT] comments the question currently is not very clear. Not very simple. Q1 should be which NF is used t o store key. Q2 should be which NF accesses the key. And Q3...  [IDCC] is ok with the proposal and will extend Q2.  [Chair] asks to revise Q3.  [Vivo] asks the procedure about show of hands.  [Chair] clarifies.  >>CC\_offlineProSeCall<<  [Interdigital]: r2 available. Updated questions based on input from earlier ProSe CC  [Huawei, HiSilicon]: Propose to add a new question in the beginning. | reserved |  |
|  |  | S3-221150 | Questions of show hand on ProSe CP-based solution | CATT | other | [Rapporteur]: Announce initial draft for Questions of show hand on ProSe CP-based solution.  >>CC\_2<<  [CATT] presents.  [IDCC] doesn’t agree to add Q4 and Q5  [LGE] has same view with IDCC  [Huawei] comments there is no need to make support/object.  [Ericsson] comments to clarify the exact key in Q3.  [CATT] does not agree with the Ericsson’s proposal.  [Huawei] disagree with Ericsson’s proposal.  [CATT] provides another proposal  [IDCC] comments  [Nokia] supports IDCC, there is not only retrieving keys but also some other information.  [Huawei] comments.  [Xiaomi] comments.  ----show of hands----  Q2:  AUSF: Huawei/Oppo/China Unicom/LGE/CATT/Vivo/China Telecom/ZTE/Xiaomi. (9 companies)  PAnF: IDCC/Ericsson/Nokia/Philips/MITRE/Convida Wireless/NIST/Samsung (8 companies)  [IDCC] would like to compromise  [Ericsson] objects option 1  [Samsung] would like to compromise to option 1  [Nokia] would like to compromise to option 1  [Philips] would like to compromise to option 1  [Convida Wireless] would like to compromise to option 1  [NIST] would like to compromise to option 1  [Chair] there is majority for option 1, asks whether Ericsson could compromise.  [Ericsson] still objects, the solution is not complete.  [Huawei] there is 2 days to complete the solution.  **[Chair] there is clear majority for option 1and set as working agreement (15 vs 2), and record Ericsson’s objection.**  [CATT] points out Q3 is not applicable if Q2 choose AUSF.  [IDCC] agrees with CATT.  ----show of hands----  >>CC\_2<< |  |  |
| 4.8 | Enhanced security for Phase 2 network slicing (Rel-17) | S3‑220799 | Address EN on alignment to SA2 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221047 | Resolving the alignment related EN for NSACF Subscription/unsubscription procedure | Xiaomi Communication | CR | [Huawei] proposes to merge with 0799.  [Xiaomi] requests for clarification. | available |  |
|  |  | S3‑220800 | Address EN on AF Authorization | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221050 | Update Subscription and unsubscription procedure of NSACF notification service | Xiaomi Communication | CR |  | available |  |
|  |  | S3‑221061 | Clarification on AF authorization for the NSACF notification procedure | Ericsson | CR | [Huawei] proposes to merge with 0800. | available |  |
| 4.9 | Security Aspects of eNPN (Rel-17) | S3‑220837 | Format of anonymous SUCI | Huawei, HiSilicon | CR | [Ericsson] : Clarification needed  MCC commented on the cover page: What does the proposed change affect, UICC, ME, Radio Access Network, Core Network,  [Huawei]: Provides clarifiation. | available |  |
|  |  | S3‑220838 | LS on anonymous SUCI | Huawei, HiSilicon | LS out | [Ericsson] : Clarification needed  [Huawei]: Provides clarification.  [Lenovo]: Needs clarification and revision. | available |  |
|  |  | S3‑220863 | Address Ens for NPN | Huawei, HiSilicon | CR | [Huawei] : provide the way forward, and provide r1 for discussion.  [Ericsson] : Cannot find r1 in the Inbox.  [Huawei]: Upload r1.  [Ericsson] : Needs update. | available |  |
|  |  | S3‑220912 | Definition of Anonymous SUCI | Ericsson, Qualcomm | CR | [Huawei]: Request clarfication and modification.  [Ericsson]: Provides clarification  [Thales]: ask question and propose changes.  [Lenovo]: Propose to not pursue or note this contribution.  TS 33.501 Clause I.9.2.1 Requirements cover Requirements related to UE onboarding. There is no requriement available to define username as constant string 'anonymous' or to omit username.  [Ericsson]: Provides revision r1 and request the revision to be discussed during conference call today.  >>CC\_2<<  [Ericsson] presents.  [Lenovo] comments based one TS23.501, one SUCI is corresponding one SUPI. So if introduces anonymous SUCI, need to define related security requirement also.  [Huawei] comments there should be problem if the identity is anonymous. Need to consider whether it is workable. Does not agree to add it directly.  [CableLabs] 1st part is ok. But others may have some issue  [Ericsson] replies and proposes to change SUCI to SUPI.  [Oppo] asks whether the first ME needs to change as UE or not.  [Ericsson] possible yes.  [Lenovo] comment.  [Chair] tries to understand Lenovo’s proposal.  [Lenovo] clarifies.  [CableLabs] does not agree with Ericsson’s reply.  [Huawei] has similar comment with CableLabs.  [Ericsson] replies.  [Thales] questions for clarification.  [Nokia] comments there is no full picture, is ok with the anonymous SUCI, but there is no solution yet.  [Ericsson] replies and proposes way forward.  [Lenovo] is not convinced.  >>CC\_2<< | available |  |
|  |  | S3‑220913 | UDM interaction for Anonymous SUCI | Ericsson | CR | [Huawei]: Not convinced the changes, clarification is requested.  [Lenovo]: Propose to Not pursue or note this contribution.  Clarifications provided.  MCC pointed out that comments on CRs were not allowed. Dependency or references to other CRs should be stated in the “other comments” field. | available |  |
|  |  | S3‑220914 | Removing Editor’s note on using only null-scheme SUCI | Ericsson | CR | [Lenovo]: Propose not to pursue or NOTE this contribution.  Clarifications provided. | available |  |
|  |  | S3‑220915 | Anonymous SUCI for onboarding | Ericsson | CR | [Lenovo]: Need clarification and revision to be approved.  Clarifications provided.  [Nokia] : Needs clarifications and corrects to be acceptable. | available |  |
|  |  | S3‑220916 | Clarification SUPI privacy for NPN | Ericsson | CR | [Thales] : ask for editorial change  [Lenovo] : Needs clarification and revision to be approved.  [Nokia] : Needs clarifications and corrects to be acceptable.  [Ericsson] : provide r1 with the proposed editorial change from Thales and provide replies to Nokia and Lenovo. | available |  |
|  |  | S3‑221002 | Resolving Editor’s note on using only null-scheme SUCI | Qualcomm Incorporated | CR | [Nokia] : Clarifications needed before acceptable.  [Thales] : require changes. | available |  |
|  |  | S3‑221008 | Resolution of editor's note relating to anonymizing SUPI or skipping default credential identifier. | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : proposes to merge in S3-221049  [Nokia] : Accepts merge proposal | available |  |
|  |  | S3‑221009 | Resolution of editor's note relating to usage of SUPI as a verifiable identifier | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : proposes to merge in S3-221049  [Nokia] : Accepts merge proposal | available |  |
|  |  | S3‑221010 | Resolution of editor’s note relating to exclusive use of anonymized SUCI. | Nokia, Nokia Shanghai Bell | CR | [Lenovo] : Needs clarification and revision to be approved. | available |  |
|  |  | S3‑221011 | Resolution of inconsistency in SUCI usage during UE onboarding. | Nokia, Nokia Shanghai Bell | CR | [Huawei]: Propose to note.  [Nokia]: Provides answers to proposal to note.  [Thales]: supports this contribution.  [Lenovo]: Propose to not pursue or note this contribution.  Clarifications provided. | available |  |
|  |  | S3‑221049 | Resolving the Editor’s Notes for UE onboarding in SNPNs | Xiaomi Communication, Ericsson | CR | [Ericsson] : proposes that this contribution is the baseline for a merger of documents that resolve the ENs in Annex I.9.2.1  [Xiaomi] : proposes r1 as a merger with S3-221008, S3-221009, S3-221111, and S3-221112.  [Lenovo] : Needs clarification and revision before approval.  [Ericsson] : It seems that Lenovo’s questions for clarification are on issues not related to this contribution, so whether they are answered or not should not play a role for the approval of this CR (original or r1). | available |  |
|  |  | S3‑221111 | Derivation of SUPI from default UE credentials | Ericsson, CableLabs, Intel, Qualcomm, Philips | CR | [Ericsson] : proposes to merge in S3-221049 | available |  |
|  |  | S3‑221112 | Removing EN on UE being uniquely identifiable and verifiably secure | Ericsson, CableLabs, Intel, Qualcomm, Xiaomi, Philips | CR | [Ericsson] : proposes to merge in S3-221049 | available |  |
|  |  | S3‑220688 | Clarifications to secondary authentication for UE onboarding | Intel Corporation (UK) Ltd | CR | MCC commented that there were revision marks on the CR cover page.  [Ericsson] : proposes to merge in S3-220939 and discuss updates to Annex I.9.2.4 in the thread for S3-220939  [Intel] : OK to focus the discussion on the S3-220939 thread. For the time being propose to keep it open. | available |  |
|  |  | S3‑220939 | Corrections and clarifications to secondary authentication during UE onboarding | Ericsson | CR | [Ericsson] : provides revision r1  [Intel] : provides revision r2  [Ericsson] : does not agree with r2, prefers r1  [Qualcomm]: requires revision.  [Ericsson] : provides explanation why I.9.2.4.2 is removed  [Qualcomm]: explains why I.9.2.4.2 should not be removed  [Intel] : does not agree with r1  >>CC\_2<<  [Ericsson] summarizes the position.  [Intel] provides concrete proposal.  [Ericsson] not convinced with the proposal.  [Thales] is not convinced with the sentence provided by Intel.  [Intel] could accept only when the added sentence is available.  [Ericsson] summarizes the status.  [Intel] comments the sentence is based on CT1.  >>CC\_2<< | available |  |
|  |  | S3‑220937 | Terminology correction for security of UE onboarding | Ericsson | CR |  | available |  |
|  |  | S3‑220938 | PWS for Non-Public Networks | Ericsson | CR |  | available |  |
|  |  | S3‑220942 | Implementation correction of CR1309 | Ericsson | CR |  | available |  |
|  |  | S3‑221048 | Update Figure: I.2.2.2.2-1 for consistent service operation names | Xiaomi Communication | CR |  | available |  |
|  |  | S3‑220940 | Derivation of SUPI from default UE credentials | Ericsson, CableLabs, Intel, Qualcomm | CR |  | revised | [S3‑221111](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-221111) |
|  |  | S3‑220941 | Removing EN on UE being uniquely identifiable and verifiably secure | Ericsson, CableLabs, Intel, Qualcomm, Xiaomi | CR |  | revised | [S3‑221112](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-221112) |
|  |  | S3‑221017 | Discussion on usage of identifier during UE onboarding in SNPNs | Lenovo | discussion | [Ericsson] : points out that the discussion paper was submitted for “discussion”, hence it should automatically be noted at the end of the meeting  [Lenovo] : provides response for the question. | available |  |
|  |  | S3‑221020 | Resolving Editor’s Note related to UE onboarding | Lenovo | CR | [Ericsson] : proposes to either not pursue or merge in S3-221049  [Lenovo] : provides clarifications and asks question to Ericsson.  [Ericsson] : replies to Lenovo | available |  |
|  |  | S3‑221022 | Update to clause I.2.2.2.2 for Onboarding clarifications | Lenovo | CR |  | available |  |
| 4.10 | Security Aspects of Enhancements for 5G Multicast-Broadcast Services (Rel-17) | S3‑220650 | LS on the impact of MSK update on MBS multicast session update procedure | C1-221747 | LS in | [Huawei]: No action is required for SA3. It’s proposed to note the LS. | available |  |
|  |  | S3‑220658 | LS on Clarification on MBS Security Context (MSK/MTK) Definitions | C4-222303 | LS in | >>CC\_2<<  [Samsung] presents and has draft reply LS out  >>CC\_2<< | available |  |
|  |  | S3‑220958 | Reply LS on Clarification on MBS Security Context (MSK/MTK) Definitions | Ericsson | LS out | [Huawei] provides comment.  >>CC\_2<<  [Ericsson] presents.  [Huawei] comments.  [Chair] continue email discussion and asks to prepare consensus version in next day to reply ASAP.  >>CC\_2<< | available |  |
|  |  | S3‑221145 | LS on Security architecture for 5G multicast/broadcast services | S4-220531 | LS in | >>CC\_1<<  [VC] presents  [Huawei] prepares a reply LS and asks to review it  >>CC\_1<< | available |  |
|  |  | S3‑220871 | Reply LS on security architecture for 5G multicast-broadcast services | Huawei, HiSilicon | LS out | >>CC\_1<<  [Huawei] presents.  [Chair] requests to discuss and decides before Wednesday.  >>CC\_1<<  [Ericsson] comments  [Huawei] proposes r1.  [Ericsson] r1 ok | available |  |
|  |  | S3‑221146 | Response LS on Clarifications on Nmbstf\_MBCDistributionSession service | S4-220575 | LS in | [Huawei]: No action is required for SA3. It’s proposed to note the LS. | available |  |
|  |  | S3‑221148 | Reply LS on secondary authentication for multicast PDU session | S2-2201311 | LS in |  | available |  |
|  |  | S3‑220923 | Removing EN on secondary authentication | Ericsson | CR | [Huawei]: proposes to merge S3-220923 into S3-220858.  [Ericsson]: ok to merge S3-220923 into S3-220858. | available |  |
|  |  | S3‑220858 | Removing the Editor’s Note and add clarifications in the security mechanisms for MBS | Huawei, HiSilicon | CR | [Nokia]: Partially disagree and suggests changes.  [Huawei]: provides r1.  [Nokia]: Agree with r1.  [Qualcomm]: provides comments and requests further revision for clarification  [Huawei]: provides r2.  [Ericsson]: r2 is ok | available |  |
|  |  | S3‑220860 | Enhancement for service announcement | Huawei, HiSilicon | CR | [Nokia]: Partially disagree and suggests changes.  [Huawei]: provides r1.  [Nokia]: Agree with R1.  [Ericsson]: propose clarification to r1.  [Huawei]: provides r2.  [Qualcomm]: proposes further revision  [Huawei]: provides r3 and r4.  [Ericsson]: comment for r4.  [Samsung]: This CR should not be pursued | available |  |
|  |  | S3‑221135 | MBS capability exchange and delivery method | Samsung | CR | [Nokia]: Agree with the CR. | available |  |
|  |  | S3‑220859 | Clarifications on the control-plane and user-plane procedures | Huawei, HiSilicon | CR | [Qualcomm]: requests a revision  [Ericsson]: requests a revision  [Huawei]: provides clarification. | available |  |
|  |  | S3‑220870 | Clarifications on the multicast security context handling in session creation procedure | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220611 | LS on the impact of MSK update on MBS multicast session update procedure | C1-221747 | LS in |  | revised | [S3‑220650](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220650) |
|  |  | S3‑220619 | LS on Clarification on MBS Security Context (MSK/MTK) Definitions | C4-222303 | LS in |  | revised | [S3‑220658](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220658) |
|  |  | S3‑220636 | Reply LS on secondary authentication for multicast PDU session | S2-2201311 | LS in |  | revised | [S3‑220675](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220675) |
|  |  | S3‑220675 | Reply LS on secondary authentication for multicast PDU session | S2-2201311 | LS in | [Huawei]: No further action is required for SA3. It’s proposed to note the LS. | revised | [S3‑221148](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-221148) |
| 4.11 | Security Aspects of Enhancement of Support for Edge Computing in 5GC (Rel-17) | S3‑220652 | LS on AF specific UE ID retrieval | C3-221735 | LS in | [Huawei] : Suggest to reply the LS, and use S3-220918 as the baseline.  >>CC\_2<<  [Huawei] presents. The question is already solved, need a reply LS.  Corresponding LS out are 918(Ericsson) and 1080(Apple)  [Chair] asks to merge draft LS out. Ericsson will hold the pen  >>CC\_2<< | available |  |
|  |  | S3‑220653 | Reply LS on AF specific UE ID retrieval | S6-220976 | LS in | [Huawei] : Suggest to Note. | available |  |
|  |  | S3‑220654 | Reply LS on AF specific UE ID retrieval | S2-2203426 | LS in | [Huawei] : Suggest to Note. | available |  |
|  |  | S3‑220918 | [DRAFT] Reply LS on AF specific UE ID retrieval | Ericsson | LS out | [Huawei] : Suggests to merge S3-221080 into this one.  [Ericsson] : provides clarification  >>CC\_2<<  [Ericsson] presents  >>CC\_2<< | available |  |
|  |  | S3‑221080 | MEC - Reply LS on AF specific UE ID retrieval (C3-221735) | Apple | LS out | [Ericsson] : proposes to merge in S3-220918  [Huawei] : suggests to use S3-220918 as the baseline.  >>CC\_2<<  [Apple] presents  >>CC\_2<< | available |  |
|  |  | S3‑220676 | Reply LS to GSMA OPG on Further Operator Platform Group questions following SDO Workshop | SP-220346 | LS in | [Huawei] : Suggest to Note. | available |  |
|  |  | S3‑220677 | Reply LS on Further GSMA OPAG questions following SDO Workshop | S2-2201721 | LS in | [Huawei] : Suggest to Note, as the questions for SA3 were answered in the S3-220676. | available |  |
|  |  | S3‑220681 | Reply LS to ETSI MEC on MEC Federation and interest to collaborate | S6-220931 | LS in | [Huawei] : Suggest to Note. | available |  |
|  |  | S3‑220922 | Clarification of access token usage in EC | Ericsson | CR | [Huawei] : requires revision. | available |  |
|  |  | S3‑221120 | Clarification on selected EDGE authentication method indication | Samsung | CR | [OPPO] provides comments  [Samsung] provides clarification  [Ericsson] : provides comments  [Huawei] : supports to have the indication in.  [Samsung] : Provides clarification to Ericsson. | available |  |
|  |  | S3‑221130 | Editorial corrections and technical clarifications | Ericsson | CR | [Huawei] : requires clarification. | available |  |
|  |  | S3‑220613 | LS on AF specific UE ID retrieval | C3-221735 | LS in |  | revised | [S3‑220652](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220652) |
|  |  | S3‑220614 | Reply LS on AF specific UE ID retrieval | S6-220976 | LS in |  | revised | [S3‑220653](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220653) |
|  |  | S3‑220615 | Reply LS on AF specific UE ID retrieval | S2-2203426 | LS in |  | revised | [S3‑220654](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220654) |
|  |  | S3‑220637 | Reply LS to GSMA OPG on Further Operator Platform Group questions following SDO Workshop | SP-220346 | LS in |  | revised | [S3‑220676](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220676) |
|  |  | S3‑220638 | Reply LS on Further GSMA OPAG questions following SDO Workshop | S2-2201721 | LS in |  | revised | [S3‑220677](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220677) |
|  |  | S3‑220642 | Reply LS to ETSI MEC on MEC Federation and interest to collaborate | S6-220931 | LS in |  | revised | [S3‑220681](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220681) |
|  |  | S3‑220921 | Editorial corrections and technical clarifications | Ericsson | CR |  | revised | [S3‑221130](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-221130) |
| 4.12 | Non-seamless WLAN Offload in 5GS (Rel-17) | S3‑220655 | LS on 5G NSWO roaming aspects | S2-2203253 | LS in | >>CC\_2<<  [Nokia] presents.  [Chair] continue email discussion.  [Thales] question why to remove.  [Nokia] clarifies.  >>CC\_2<< | available |  |
|  |  | S3‑220656 | Reply LS on 5G NSWO roaming aspects | C3-222487 | LS in | [Nokia]:Nokia is proposing to note the LS  >>CC\_2<<  [Nokia] presents and proposes to note  >>CC\_2<< | available |  |
|  |  | S3‑220657 | Reply LS on 5G NSWO roaming aspects | C4-222436 | LS in | [Nokia]:Nokia is proposing to note the LS  >>CC\_2<<  [Nokia] presents and proposes to note  [Huawei] the CR marks as conditional agreed, not agreed directly.  [CableLabs] comments there is no objection and proposes to note.  >>CC\_2<< | available |  |
|  |  | S3‑220697 | LS reply on 5G NSWO roaming aspects | Nokia, Nokia Shanghai Bell | LS out |  | available |  |
|  |  | S3‑221019 | Draft LS on NSWO security | Ericsson | LS out | [Nokia]: Clarification required | available |  |
|  |  | S3‑220698 | NSWO alignment with SA2 specs | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑221098 | Clarification on the NSWO in the UE side | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220818 | Summary for Non-Seamless WLAN offload authentication in 5GS | Nokia Solutions & Networks (I) | WI summary |  | available |  |
|  |  | S3‑221018 | NSWO security revisited | Ericsson, Deutsche Telekom, Vodafone | discussion | [Nokia]: Clarification required  [Ericsson]: Provides clarification.  [Lenovo]: requests clarification. | available |  |
|  |  | S3‑220616 | LS on 5G NSWO roaming aspects | S2-2203253 | LS in |  | revised | [S3‑220655](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220655) |
|  |  | S3‑220617 | Reply LS on 5G NSWO roaming aspects | C3-222487 | LS in |  | revised | [S3‑220656](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220656) |
|  |  | S3‑220618 | Reply LS on 5G NSWO roaming aspects | C4-222436 | LS in |  | revised | [S3‑220657](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220657) |
| 4.13 | Security Aspects of User Consent for 3GPP services (Rel-17) | S3‑220622 | Reply LS on NTN specific User Consent | R2-2201754 | LS in |  | revised | [S3‑220661](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220661) |
|  |  | S3‑220661 | Reply LS on NTN specific User Consent | R2-2201754 | LS in | [Huawei]: Should be replied by taking the S3-221082 and S3-221107 into consideration.  >>CC\_2<<  [VC] presents  [Ericsson] there are some response proposal but in AI#3  [Apple] has one reply proposal(1082) and Nokia(1107) has another.  >>CC\_2<< | available |  |
|  |  | S3‑220864 | Address EN for UC3S | Huawei, HiSilicon | CR | [Ericsson] : Ask for clarification  [Nokia] : Ask for update. | available |  |
|  |  | S3‑220865 | Clarification on Enforcement Point for User Consent | Huawei, HiSilicon | CR | [Nokia] : this is a revision of CR 1331. Updates requested. | available |  |
| 4.14 | Srevice Based Architecture (Rel-15/16/17) | S3‑220724 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom, NCSC, Xiaomi, BT, AT&T, Interdigital | CR | >>CC\_1<<  [Nokia] proposes to mark as WA and send back to SA again.  [Huawei] doesn’t agree to send as WA without discussion. >>CC\_1<< | available |  |
|  |  | S3‑220725 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom, NCSC, Xiaomi, BT, AT&T, Interdigital | CR |  | available |  |
|  |  | S3‑220726 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Lenovo, Deutsche Telekom, NCSC, Xiaomi, BT, AT&T, Interdigital | CR |  | available |  |
|  |  | S3‑220728 | Authorization of N32-f connection establishment with TLS | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : requires clarifications  [Mavenir] : Request clarification before approving this CR  [Huawei] : request clarification.  [Nokia] : provides clarification. -r1 is available. | available |  |
|  |  | S3‑220729 | Authorization of N32-f connection establishment with TLS | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220731 | Resolving EN on authorization between SCPs | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : requires updates, proposal to merge in S3-221099  [Mavenir] : Provides simplification proposal to resolve EN proposed by Nokia (220731) and Huawei (221099)  [Nokia] : agrees to merge into S3-221099, proposes to CLOSE THIS THREAD; comments from Mavenir on proposed update copied for handling in 1099 thread. | available |  |
|  |  | S3‑221099 | Removing the Ens on the SCP authorization | Huawei, HiSilicon | CR | [Ericsson] : requires updates  [Mavenir] : Please see proposal under S3-220731.  [Nokia] : 0731 is merged into 1099.  adding below Mavenir’s proposal captured in 0731 since it is better to keep all discussion in 1099 thread.  Nokia does not agree on this simplification without reference to NOTE 3 in clause 13.3.1.2 or an explaining sentence. SCP could act without NFc having triggered a request, thus it is important to mention the limitations.  [Huawei] : provides r1. | available |  |
|  |  | S3‑220765 | Adding authorization for delegated discovery | China Telecommunications | CR | >>CC\_1<<  [CT] presents  [Ericsson] comments, confused with motivation about delegate discovery.  [CT] clarifies.  [Nokia] comments.  [Chair] suggests to continue discussion  >>CC\_1<<  MCC pointed out that the category was wrong in this CR, assuming that no new feature was being added.  [China Telecom]the category should be cat-F.  [Ericsson] : requires clarification  [China Telecom] : provides clarification | available |  |
|  |  | S3‑220766 | Adding authorization for delegated discovery(mirror) | China Telecommunications | CR |  | available |  |
|  |  | S3‑220943 | Clarification on the certificate profile for SCP and SEPP | Ericsson, Nokia, Nokia Shanghai Bell | draftCR |  | available |  |
|  |  | S3‑220944 | SEPP interconnect certificate profile | Ericsson | other | [Huawei] : request clarification.  [Ericsson] : tries to clarify | available |  |
|  |  | S3‑220945 | Clarification on CN-ID when it is presented in the certificate | Ericsson | CR | [Huawei] : request clarification. | available |  |
|  |  | S3‑220946 | Clarification on CN-ID when it is presented in the certificate | Ericsson | CR |  | available |  |
|  |  | S3‑220947 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR | [Huawei] : request clarification. | available |  |
|  |  | S3‑220948 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR |  | available |  |
|  |  | S3‑220949 | Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery | Ericsson | CR |  | available |  |
|  |  | S3‑220950 | Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery | Ericsson | CR |  | available |  |
|  |  | S3‑220952 | LS on PLMN ID used in Roaming Scenarios | Ericsson | LS out |  | available |  |
|  |  | S3‑220951 | SEPP to include and verify the source PLMN-ID | Ericsson, Nokia, Nokia Shanghai Bell, Mavenir | draftCR |  | available |  |
|  |  | S3‑220953 | SEPP handling of PLMN-ID in Roaming scenarios for PLMNs supporting more than on PLMN-ID | Ericsson | other |  | available |  |
|  |  | S3‑220954 | Clarification of SNI usage for NF clients and servers | Ericsson | CR | [Huawei] : request clarification. | available |  |
|  |  | S3‑221100 | Clarification on IV usage on N32-f protection-R15 | Huawei, HiSilicon | CR | [Ericsson] : S3-221100 and its mirrors (S3-221101 and S3-221102) should be not pursued, since they are a resubmission of S3-220233 + mirrors that were not pursued at SA3#106-e and no new arguments have been presented  [Huawei] : reply to Ericsson. | available |  |
|  |  | S3‑221101 | Clarification on IV usage on N32-f protection-R16 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221102 | Clarification on IV usage on N32-f protection-R17 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221103 | Clarification on handling of the incoming N32-f message in the pSEPP side – R15 | Huawei, HiSilicon | CR | [Nokia] : asks for updates | available |  |
|  |  | S3‑221104 | Clarification on handling of the incoming N32-f message in the pSEPP side – R16 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221105 | Clarification on handling of the incoming N32-f message in the pSEPP side – R17 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221131 | Verification of NSSAIs for preventing slice attack | CableLabs, Ericsson,Nokia, Nokia Shanghai Bell | draftCR | [Deutsche Telekom]: Asks for further clarification  [Ericsson] : tries to clarify and refers to the proposed Key Issue in S3-220955  [Deutsche Telekom] : thanks for clarification and the hint on the pCR to TR 33.875 | available |  |
|  |  | S3‑221133 | Checking S-NSSAI against authoritative information source | CableLabs,Nokia, Nokia Shanghai Bell | other | [Ericsson] : proposes to note this change proposal, instead analyze the issue in more detail in the FS\_eSBA\_SEC study | available |  |
|  |  | S3‑221108 | CableLabs, Ericsson, Nokia, Nokia Shanghai Bell | CableLabs | draftCR |  | withdrawn |  |
| 4.15 | Security Assurance -All NFs (Rel-15/16/17) | S3‑220749 | Correction on clause F.2.1 in TS 33.926-R16 | ZTE Corporation | CR | MCC clarified the use of “DUMMY” for WID codes and suggested SCAS\_5G for this CR and its mirror. | available |  |
|  |  | S3‑220750 | Correction on clause F.2.1 in TS 33.926-R17 mirror | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220751 | Update the test case in TS 33.216 clause 4.2.2.1.10 | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220875 | Delete Use Case on Finding the right NF instance are serving the UE | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220876 | Delete Threat Analysis on Finding the right NF instance are serving the UE | Huawei, HiSilicon | CR |  | available |  |
| 4.16 | Rel-15/16/17 maintenance (All topics) | S3‑220659 | LS on Indication of Network Assisted Positioning method | C4-222306 | LS in | >>CC\_1<<  [VC] presents.  >>CC\_1<< | available |  |
|  |  | S3‑220872 | Reply LS on the Indication of Network Assisted Positioning method | Huawei, HiSilicon | LS out | >>CC\_1<<  [Huawei] presents  >>CC\_1<<  [Huawei]: provides r1. | available |  |
|  |  | S3‑220699 | LS reply on High-reliability requirement of UAV | Nokia, Nokia Shanghai Bell | LS out | >>CC\_1<<  [Nokia] presents.  >>CC\_1<<  [Huawei]: proposes to merge the LS into S3-220872. | available |  |
|  |  | S3‑220985 | Reply LS on Indication of Network Assisted Positioning method | Qualcomm Incorporated | LS out | >>CC\_1<<  [QC] presents.  [QC] would like to hold the pen  [Huawei] is fine.  [Nokia] comments, not agree with QC.  [Chair] requests Huawei to hold the pen.  [Huawei] prefers QC’s contribution and would like to use QC’s contribution as baseline.  >>CC\_1<<  [Huawei]: proposes to merge the LS into S3-220872. | available |  |
|  |  | S3‑220700 | High-reliability requirement of UAV | Nokia, Nokia Shanghai Bell | CR | >>CC\_1<<  [Nokia] presents.  >>CC\_1<<  [Huawei]: proposes to note the contribution. | available |  |
|  |  | S3‑220984 | Clarification on ‘high reliability’ location information | Qualcomm Incorporated | CR | [Nokia]:Clarification asked  [Huawei]: provides r1. | available |  |
|  |  | S3‑220803 | Address EN on UAV ID | Huawei, HiSilicon | CR | MCC pointed out that the clauses affected were missing on the cover page.  [Huawei] responses to MCC. | available |  |
|  |  | S3‑220979 | Resolving the EN on CAA level ID during UUAA procedures | Qualcomm Incorporated | CR | [Huawei]: provides comments. | available |  |
|  |  | S3‑220804 | Address EN on UAV re-auth | Huawei, HiSilicon | CR | MCC pointed out that the clauses affected were missing on the cover page.  [Huawei] responses to MCC. | available |  |
|  |  | S3‑220964 | Resolving of EN in Clause 5.2.1.4 UUAA re-authentication procedure | Lenovo | CR | [Huawei]: propose to merge 0980, 0804, 0964.  [Lenovo]: Accepts to merge 0980, 0804, 0964.  [Huawei]: responses to Lenovo. | available |  |
|  |  | S3‑220980 | Resolving the ENs related to re-authentication | Qualcomm Incorporated | CR | [Huawei]: propose to merge 0980, 0804, 0964. | available |  |
|  |  | S3‑220960 | Correction to Clause 5.2.1.5 UUAA Revocation | Lenovo | CR |  | available |  |
|  |  | S3‑220961 | Correction to Clause 5.2.2.4 UUAA Revocation | Lenovo | CR |  | available |  |
|  |  | S3‑220977 | Adding terms and abbreviations | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220978 | Adding text for the Overview clause | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220981 | Resolving the ENs on CAA level ID during revocation | Qualcomm Incorporated | CR | [Huawei]: provides comments. | available |  |
|  |  | S3‑220982 | Removing EN on USS authorisation | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220983 | Removing EN on TPAE | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220986 | Resolving the ENs on protection of UAS data | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220693 | Aligning text for AKMA procedure | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220694 | Clarification on anonymization api | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220752 | Correct AAnF service in clause 6.3 | ZTE Corporation | CR | [Ericsson]: proposes changes. | available |  |
|  |  | S3‑220753 | NF selects AAnF in clause 6.7 | ZTE Corporation | CR | [Nokia]:Clarification asked  [ZTE]: Provide some clarification and R1.  [Nokia]: Clarification asked and propose changes  [ZTE]: Fine with Nokia's suggestion.  MCC reminded that the WID code on the CR cover page should be related to the technical change.  [Nokia]: Provided V2.  [ZTE]: Fine with R2. | available |  |
|  |  | S3‑220770 | Clarification on the description about AAnF | China Telecom Corporation Ltd. | CR | [Nokia]:Providing suggestion  [CMCC]: further changes may be needed.  [China Telecom]: Provides draft\_S3-220770-r1  [Ericsson]: Disagrees with the original CR and R1. The CR is touching a clause that is supposed to describe the AAnF, not set requirements. Proposal for changes.  [China Telecom]: Ask for clarification. | available |  |
|  |  | S3‑220807 | AAnF sending GPSI to internal AKMA AF | China Mobile | CR | [Nokia]:Clarification asked  [Nokia]: Clarification provided.  [CMCC]: Clarification provided.  [Nokia]: Clarification asked and provide the suggestion  [CMCC]: Further clarification provided.  [Nokia]: agree with the clarification  [Ericsson]: Disagrees with the CR, proposes changes. | available |  |
|  |  | S3‑220805 | Issue of NSSAA in multiple registration | Huawei, HiSilicon | discussion |  | available |  |
|  |  | S3‑220806 | Include SN ID in NSSAA procedure | Huawei, HiSilicon | CR | MCC commented on the cover page: clauses affected are wrong (it should be 16.3, 16.4, 16.5). The WID code should be just eNS. They also pointed out that there was a missing mirror for this in Rel-17.  [Huawei] responses to MCC.  [Ericsson] objects | available |  |
|  |  | S3‑221088 | editorial changes of ENSI | Huawei,HiSilicon | CR |  | available |  |
|  |  | S3‑221089 | mirror-editorial changes of ENSI | Huawei,HiSilicon | CR |  | available |  |
|  |  | S3‑220861 | Alignment with RAN2 for LTE UP IP | Huawei, HiSilicon | CR | [Ericsson] : ask questions  MCC pointed out that a reference was added but then not used in the CR.  [Qualcomm]: questions the need for this CR | available |  |
|  |  | S3‑220862 | Address EN for LTE UP IP | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220959 | UP IP: mapping of EPS integrity algorithm to NR integrity algorithm | Ericsson | CR |  | available |  |
|  |  | S3‑221143 | Avoid linkage between security functions and UE Radio Access Capabilities | VODAFONE | CR |  | available |  |
|  |  | S3‑220962 | Clarification to multiple registrations in different PLMNs | Ericsson | CR | [NEC]: This solution challenges fundamental agreement that a UE context can be transferred between two PLMNs ( between PLMNs which are not equivalent) and has impact on frozen release 16 onwards. The current network implementation needs to be changed. details are given below. | available |  |
|  |  | S3‑220963 | Clarification to multiple registrations in different PLMNs | Ericsson | CR |  | available |  |
|  |  | S3‑221132 | Discussion on security procedure during registration procedure over two different PLMN | NEC Corporation | discussion | [Ericsson] : provides comments | available |  |
|  |  | S3‑221134 | Update to NAS security context procedure when UE is registering over two different PLMNs | NEC Corporation | CR | [Ericsson] : provides comments | available |  |
|  |  | S3‑220685 | Clarifications to secondary authentication PDU Session Container | Intel Corporation (UK) Ltd | CR | MCC commented that the mirrors in 686 and 687 should have the same WID code as the cat-F CR: TEI15.  [Huawei] : Changes are proposed and r1 provided.  [Qualcomm]: Provides some comments on r1  MCC clarified that a better fit for this CR and mirrors was 5GS\_Ph1-SEC on the cover page. | available |  |
|  |  | S3‑220686 | Clarifications to secondary authentication PDU Session Container | Intel Corporation (UK) Ltd | CR | [Huawei] : This CR is a mirror of S3-220685.  Let’s wait until that discussion is finalized. | available |  |
|  |  | S3‑220687 | Clarifications to secondary authentication PDU Session Container | Intel Corporation (UK) Ltd | CR | [Ericsson] : Points out that this CR is not a pure mirror of S3-220685. The additional changes to the text between step 10 and 11 are related to eNPN and hence should have been brought in a separate cat-F CR. These additional changes to the text between step 10 and 11 require clarification, otherwise they should be removed from the CR.  [Huawei] : This CR is not a mirror of S3-220685. It includes additional changes related to NPN at step 4, 10, and 13. Changes related to NPN are not supposed to be in this clause.  Propose to remove NPN related changes. Otherwise, this CR should not be pursued.  [Intel] : Provides r1 to remove the eNPN-related changes and make it a pure mirror of S3-220685. | available |  |
|  |  | S3‑220991 | Discussion on Ua security protocol identifier for PSK TLS 1.3 | Qualcomm Incorporated | discussion |  | available |  |
|  |  | S3‑220992 | Adding a Note about the new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | CR | [Nokia]: Clarification asked and propose changes. | available |  |
|  |  | S3‑220993 | Adding a new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220695 | UPU procedure alignment | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : Clarification needed  [Nokia] : Clarification Provided  [Qualcomm] : Does not agree with the CR as proposed  [Nokia]: provide clarification | available |  |
|  |  | S3‑220696 | UPU procedure alignment | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : Clarification needed  [Nokia] : Clarification Provided  [Huawei, HiSilicon]: this contribution should be noted.  [Huawei, HiSilicon]: please ignore the previous email. | available |  |
|  |  | S3‑220849 | Rel-16 Add clarifications to unicast procedures | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220873 | Rel-17 Add clarifications to unicast procedures | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220647 | LS on ETSI Plugtest #6 Observation 10.1.11 | Motorola Solutions Danmark A/S | LS out |  | available |  |
|  |  | S3‑220917 | Updates to 33.434 for CoAP usage | Ericsson | CR |  | available |  |
|  |  | S3‑220935 | Editorial correction and clarification to 33.501 | Ericsson | CR |  | available |  |
|  |  | S3‑221119 | [SBA] CR to update NF profile for inter-slice access | Samsung | CR |  | available |  |
|  |  | S3‑220643 | CR on Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Deutsche Telekom AG | CR | MCC commented that the CR number was missing on the cover page. | available |  |
|  |  | S3‑221076 | CR - 33501 - Clarification on Fast re-authentication | Apple | CR | [Nokia] clarification needed.  [Qualcomm] CR not acceptable as proposed | available |  |
|  |  | S3‑221077 | CR - 33501 - Clarification on the NAS COUNT for KeNB derivation | Apple | CR |  | available |  |
|  |  | S3‑221144 | E1 interface security requirements | VODAFONE | CR |  | available |  |
|  |  | S3‑220620 | LS on Indication of Network Assisted Positioning method | C4-222306 | LS in |  | revised | [S3‑220659](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220659) |
|  |  | S3‑220646 | DP on Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC (for SIP Sessions). | Deutsche Telekom AG | discussion |  | withdrawn |  |
| 5 | Studies areas |  |  |  |  |  |  |  |
| 5.1 | Study on 5G security enhancement against false base stations | S3‑221072 | 5GFBS - Conclusion for solution#17 | Apple. Ericsson, Intel, Nokia, Deutsche Telekom, CableLabs, LGE, OPPO, Xiaomi, Huawei, NIST, Telecom Italia, AT&T | pCR |  | available |  |
|  |  | S3‑221073 | 5GFBS - Draft LS to RAN plenary on the conlcusion of solution#17 | Apple | LS out |  | available |  |
|  |  | S3‑221075 | 5GFBS - Security risk in lower layers | Apple | pCR |  | available |  |
|  |  | S3‑220710 | Addressing the editor’s note in 6.27.2.1.1 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220711 | Addressing the editor’s note in 6.27.2.1.7 of sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220712 | Addressing the editor’s note in 6.27.2.2.1of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220713 | Addressing the editor’s note #1 in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom | pCR |  | available |  |
|  |  | S3‑220714 | Addressing the editor’s note #2 in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220715 | Removing incorrect texts in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220716 | Removing redundant texts in 6.27.2.2.4 of Sol# | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220717 | Removing unrelated texts in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220718 | LS out on authenticity and replay protection of system information | CableLabs, Deutsche Telekom, Philips International B.V. | LS out |  | available |  |
|  |  | S3‑220792 | Update to solution #25 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220793 | Evaluation of solution #4 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220794 | Conclusion for KI#3 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221084 | Detection of MitM attacks with secret paging | Lenovo | pCR |  | available |  |
| 5.2 | Study on Security Impacts of Virtualisation | S3‑220705 | Evaluation of Solution #5 | Johns Hopkins University APL, US National Security Agency, CableLabs, InterDigital, AT&T, CISA ECD | pCR |  | available |  |
|  |  | S3‑220866 | Update for solution 5 | Huawei, HiSilicon | pCR | [JHU]: Clarification requested | available |  |
|  |  | S3‑220898 | Adding evaluation for Sol#6 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220976 | Adding conclusions and recommendations related to KI#13 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑221087 | corrections on measurements flow of solution#5 | Huawei,HiSilicon | pCR | [JHU]: Requires further clarification before it is acceptable | available |  |
|  |  | S3‑221115 | KI#27 update - requirements | MITRE Corporation | pCR | [MITRE]: Provides context for this contribution | available |  |
| 5.3 | Study on Security Aspects of Enhancement for Proximity Based Services in 5GS | S3‑220754 | Key issue on authorization in multi-path transmission for UE-to-Network Relay scenario | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220755 | Key issue on authorization in the UE-to-UE relay scenario | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220756 | Key issue on Integrity and confidentiality of information over the UE-to-UE Relay | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220757 | Key issue on Privacy of information over the UE-to-UE Relay | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220758 | Key issue on Support direct communication path switching between PC5 and Uu | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑221114 | New Key Issue on UE-to-UE Relay Trust Model | OPPO | pCR |  | available |  |
|  |  | S3‑221116 | New KI: Remote UE Security Establishment via UE-to-UE Relay | OPPO | pCR |  | available |  |
| 5.4 | Study on enhanced Security Aspects of the 5G Service Based Architecture | S3‑220727 | Security improvements of N32 connection | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220932 | Update to KI on roaming hub | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220933 | Requirement to KI on roaming hub | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220931 | Trust in SEPP deployment scenarios | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑221136 | New KI for Authentication of PLMNs over IPX | CableLabs | pCR |  | available |  |
|  |  | S3‑220955 | New KI, NRF validation of NFc for access token requests | Ericsson | pCR | [Deutsche Telekom] : supports the proposed KI and provides -r1 | available |  |
|  |  | S3‑221096 | Update of Solution #12 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221097 | Update of Solution #9 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220730 | Resolution EN authorization method negotiation per KI7-Sol9 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220732 | New sol. for KI7 on authorization mechanism negotiation | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220733 | Conclusion on authorization method negotiation | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220910 | Rapporteur update to TR 33.875 | Nokia | pCR |  | available |  |
| 5.5 | Study on enhanced security for network slicing Phase 2 | S3‑221051 | eNS2\_Sec: Solution #1 update | Xiaomi Communication | pCR | [Huawei] propose to note this document.  [Xiaomi] provides clarifications.  [Huawei] responses to Xiaomi. | available |  |
|  |  | S3‑220795 | KI#2 update - threats and requirements | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220796 | New solution for part 1 of KI#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220797 | New solution for part 2 of KI#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220798 | Conclusion for part 2 of KI#2 | Huawei, HiSilicon | pCR |  | available |  |
| 5.6 | Study on privacy of identifiers over radio access | S3‑220701 | New content for Terms clause on key properties of privacy | InterDigital, Inc. | pCR | [Huawei] points out that like references and abbreviations, terms are better introduced when they are first used | available |  |
|  |  | S3‑220702 | TR 33.870 – Informative Annex A | InterDigital, Inc. | pCR | [Huawei] requires updates before approval | available |  |
|  |  | S3‑220645 | DP on Post-Quantum Secure Subscription Concealed Identifier | Deutsche Telekom AG | discussion | [Huawei] provides views on the proposal | available |  |
|  |  | S3‑220644 | New KI on Post-Quantum Secure Subscription Concealed Identifier | Deutsche Telekom AG | pCR | [Nokia]: Objects KI.  [Deutsche Telekom] : clarifies on the forward secrecy issue ('record now, decrypt later') and provides -r1 with additional support  >>CC\_2<<  [DT] presents.  [Huawei] try to avoid discuss key issue directly. But should consider other aspect first. Currently even the 5G AKA has issue with PFS.  [Nokia] agrees with Huawei. PQ is not only impact SUPI but also others.  [IDCC] replies.  [CableLabs] agrees with IDCC and support this KI. Suggests to bring other SID to make wider study.  [Huawei] doesn’t think it is proper to make this KI. It needs to be studied in wider scope along with other identifiers.  [Oppo] asks whether to refer ETSI study. We don’t need to have duplicated study.  [QC] agrees with Huawei’s comment. Needs to wait for the candidate available before to begin the study on this point.  >>CC\_2<< | available |  |
|  |  | S3‑220911 | New key issue on SUPI length disclosed by SUCI | Ericsson, Apple, AT&T, Cable Labs, China Southern Power Grid Co, Convida Wireless LLC, Intel, Interdigital, Johns Hopkins University APL, Lenovo, LGE, Mavenir, MITRE, NCSC, Oppo, Phillips, Samsung, Telefonica, US NIST, US NSA, Verizon Wireless, Xiaomi, ZT | pCR | [Nokia]: Supports KI.  [Thales]: propose change to the requirement.  [Ericsson]: Thales changes are taken into account in revision -r1.  >>CC\_2<<  [Ericsson] presents  [QC] comments in last meeting already. The assumption is not correct, so doesn’t agree with this contribution.  [Ericsson] replies.  [Apple] supports the key issue.  [CableLabs] supports the key issue.  [IDCC] comments it does not covers only first name/last name case.  [QC] replies.  [IDCC] asks to have show of hands next time.  [QC] replies.  [Chair] suggests to let QC provide changes to avoid show of hands.  [IDCC] [CableLabs] and [QC] are discussing  [Chair] continue email discussion.  >>CC\_2<< | available |  |
|  |  | S3‑221078 | IDPrvc - Security issue on C-RNTI | Apple | pCR | [Nokia]: Disagrees with KI.  [Huawei] requests clarifications and updates before approval | available |  |
|  |  | S3‑220703 | New key issue on TMGI Privacy | InterDigital, Inc., Convida | pCR |  | available |  |
|  |  | S3‑220704 | New key issue on PIN ID Privacy | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑220759 | New solution on key issue SUPI length disclosed by SUCI. | China Southern Power Grid Co., Ltd, ZTE | pCR | [Huawei] proposes to postpone due to lack of details and consensus (so far) on corresponding KI | available |  |
| 5.7 | Study on Standardising Automated Certificate Management in SBA | S3‑220823 | New KI for security of certificate update | Huawei, HiSilicon | pCR | [Ericsson]: The pCR requires updates before approval | available |  |
|  |  | S3‑220824 | New KI for Security protection of certificate enrolment | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220919 | A new key issue for single automated certificate management protocol and procedures | Ericsson | pCR |  | available |  |
|  |  | S3‑220928 | Key issue on CMPv2 adoption and initial NF trust during certificate enrolment | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220920 | A new key issue for the relation between NF lifecycle and certificate lifecycle | Ericsson | pCR | [Nokia]: provides -r1  [Ericsson]: provides -r2 | available |  |
|  |  | S3‑220925 | Key issue on Relation between NF and Certificate lifecycle management | Nokia, Nokia Shanghai Bell | pCR | [Ericsson] : proposes to merge in S3-220920  [Nokia]: agree with the merge  [Huawei] requires clarifications and changes pertaining to this specific contribution for the merge.  [Nokia]: provides -r1 of S3-220920, clarifications, and suggest to move the discussion in 0920 | available |  |
|  |  | S3‑220924 | Update of the introduction and scope of TR 33.876 skeleton | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220927 | Key issue on Multiple certificates to be associated with a Network Function | Nokia, Nokia Shanghai Bell | pCR | [Huawei] requires clarifications and updates before approval  [Nokia]: Provides clarifications and -r1 | available |  |
|  |  | S3‑221046 | Key Issue on Trust Chain of Certificate Authority Hierarchy | Beijing Xiaomi Mobile Software | pCR | [Huawei] requires clarifications and updates before approval  [Xiaomi]: provides responses. | available |  |
|  |  | S3‑220926 | Key issue on Network Function instances identifiers | Nokia, Nokia Shanghai Bell | pCR | [Huawei] requires clarifications before approval and considers current key issue out of scope  [Nokia]: provides clarifications and -r1 | available |  |
|  |  | S3‑220929 | Key issue on Certificates revocation procedures | Nokia, Nokia Shanghai Bell | pCR | [Huawei] requires clarifications and updates before approval | available |  |
|  |  | S3‑220930 | Key issue on Automated certificate management for Network Slicing | Nokia, Nokia Shanghai Bell | pCR | [Huawei] requires clarifications and updates before approval | available |  |
| 5.8 | New SID on AKMA phase 2 | S3‑220810 | Skeleton for TR 33.737(AKMA ph2) | China Mobile | draft TR |  | available |  |
|  |  | S3‑220811 | Scope of TR 33.737 | China Mobile | pCR | [Nokia]: provide r1  [CMCC]: accepts r1. | available |  |
|  |  | S3‑220812 | Architectural Asumptions in TR 33.737 | China Mobile | pCR |  | available |  |
|  |  | S3‑220813 | Key issue of AKMA roaming | China Mobile | pCR |  | available |  |
|  |  | S3‑220901 | Key issue on AKMA Roaming Scenario | Nokia, Nokia Shanghai Bell | pCR | [CMCC]: requests clarification and potential merge.  [Nokia]: provide clarification and agree for the merger  [Lenovo]: supports the contribution | available |  |
|  |  | S3‑221057 | New key issue on AKMA application key request in home routed and local-breakout scenarios | Xiaomi Communication | pCR | [CMCC]: requests clarification and potential merge. | available |  |
|  |  | S3‑221058 | New key issue on Secure AAnF service request in roaming scenarios of AKMA | Xiaomi Communication | pCR | [CMCC]: requests clarification.  [Nokia]: clarification needed. | available |  |
|  |  | S3‑221059 | New key issue on secure architecture for roaming scenarios in AKMA | Xiaomi Communication | pCR | [CMCC]: proposes to note. | available |  |
|  |  | S3‑221122 | New Key Issue on AKMA Roaming | Samsung | pCR | [CMCC]: requests clarification. | available |  |
|  |  | S3‑221123 | New solution on AKMA Roaming | Samsung | pCR |  | available |  |
|  |  | S3‑221124 | New solution on pushing AKMA context to visited PLMN | Samsung | pCR |  | available |  |
|  |  | S3‑220814 | Key issue of introducing application proxy into AKMA | China Mobile | pCR |  | available |  |
|  |  | S3‑220902 | KI on AP function introduction | Nokia, Nokia Shanghai Bell | pCR | [CMCC]: proposes to merge into S3-220814.  [Nokia]: fine with the merging | available |  |
|  |  | S3‑221052 | New key issue on authentication proxy architecture for AKMA | Xiaomi Communication | pCR | [CMCC]: proposes to merge into S3-220814.  [Xiaomi] : Accepts merge proposal | available |  |
|  |  | S3‑221053 | New key issue on protecting application servers with different security requirements | Xiaomi Communication | pCR | [Huawei]: clarification is needed before approval.  [Xiaomi]: provides clarification. | available |  |
|  |  | S3‑221054 | New key issue on secure AKMA application key request in AKMA supporting authentication proxy | Xiaomi Communication | pCR | [Nokia]: clarification asked  [Xiaomi]: provides clarification  [Nokia]: Fine with the clarification  [CMCC]: proposes to note.  [Huawei]: clarification is needed before approval.  [Xiaomi]: provides clarification. | available |  |
|  |  | S3‑221055 | New key issue on secure authorization for AKMA supporting authentication proxy | Xiaomi Communication | pCR | [Huawei]: clarification is needed before approval.  [Nokia]: clarification needed | available |  |
|  |  | S3‑221056 | New key issue on secure identification of authentication proxy and application server in AKMA scenarios | Xiaomi Communication | pCR | [Huawei]: clarification is needed before approval.  [Xiaomi]: provides clarification. | available |  |
|  |  | S3‑221079 | AKMA - New key issue of introducing AP to AKMA architecture | Apple | pCR | [CMCC]: proposes to merge into S3-220814. | available |  |
|  |  | S3‑220760 | Discussion paper on AKMA application context removal. | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220761 | Discussion paper on AKMA interworking | ZTE Corporation | pCR | [Huawei]: propose the discussion paper is noted  [ZTE]: provides clarification. | available |  |
|  |  | S3‑220762 | New KI on AKMA interworking | ZTE Corporation | pCR | [Huawei]: propose to discuss this contribution in agenda 5.9.  [ZTE]: provides clarification. | available |  |
|  |  | S3‑220897 | New KI AKMA Kaf refresh | OPPO | pCR |  | available |  |
|  |  | S3‑220899 | New solution Security procedure of KAF refresh-MAC | OPPO | pCR |  | available |  |
|  |  | S3‑220900 | New solution Security procedure of KAF refresh-Counter | OPPO | pCR |  | available |  |
|  |  | S3‑220906 | New solution Security procedure of KAF-Nonce | OPPO | pCR |  | available |  |
| 5.9 | New Study of Security aspect of home network triggered primary authentication | S3‑220831 | Skeleton of HNTRA | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220832 | Scope of HNTRA | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220833 | Adding a usecase of interworking from EPS to 5G | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221045 | New Use Case for Security of Interworking | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑220819 | A use case of HONTRA in SoR protection service suspension | LG Electronics France | pCR |  | available |  |
|  |  | S3‑220821 | A use case of HONTRA in UPU protection service suspension | LG Electronics France | pCR |  | available |  |
|  |  | S3‑221043 | New Use Case for Continuity of Steering of Roaming Service Delivery | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑221044 | New Use Case for Continuity of UE Parameters Update Service Delivery | Beijing Xiaomi Mobile Software | pCR |  | available |  |
|  |  | S3‑220892 | Adding a usecase of SoR Counter Wrap around | Huawei, HiSilicon | pCR | [ZTE]: requests clarification on this use case. | available |  |
|  |  | S3‑220835 | Adding a usecase of Kakma refresh | Huawei, HiSilicon | pCR | [ZTE]: requires clarification.  [Huawei, HiSilicon]: provides clarification.  [ZTE]: give some explanations. | available |  |
|  |  | S3‑220708 | New KI on Home network triggered primary authentication | China Telecomunication Corp. | pCR | [LGE] : Asks for clarification on refresh of K\_AKMA.  [China Telecom]: provides clarification and provides draft\_S3-220708-r1  [LGE] : r1 is ok.  [Huawei]: Propose to merge.  [China Telecom]: Agree with the merger.  [Xiaomi]: Agree with the merge proposal. | available |  |
|  |  | S3‑220822 | A Key issue in UPU protection service suspension | LG Electronics France | pCR | [Huawei]: Propose to merge. | available |  |
|  |  | S3‑220820 | A Key issue in SoR protection service suspension | LG Electronics France | pCR | [Huawei]: Propose to merge. | available |  |
|  |  | S3‑221083 | HN-auth-NAS based HN triggered authentication | Apple | pCR | [Samsung] asks for clarification and suggests for a merger with 1126 and 1127 | available |  |
|  |  | S3‑220834 | KI on Scalability of the home triggered primary authentication | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221126 | New Solution on UDM initiated re-authentication based on AUSF request | Samsung | pCR | [Samsung] Minor correction is made in the figure (step 5). Provides r1 | available |  |
|  |  | S3‑220904 | Key issue on HN triggering primary reauthentication | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: Propose to merge. | available |  |
|  |  | S3‑221127 | New solution on HN initiated re-authentication via AUSF | Samsung | pCR | [Samsung] Minor correction is made in the figure (step 5). Provides r1 | available |  |
|  |  | S3‑220905 | Reauthentication during the handover | Intel Corporation (UK) Ltd | pCR | [Huawei]: Propose to merge. | available |  |
|  |  | S3‑221128 | New solution on UDM triggered key update procecdure based on AAnF request | Samsung | pCR |  | available |  |
|  |  | S3‑221041 | Key Issue on Refresh of Long Lived Key KAUSF | Beijing Xiaomi Mobile Software | pCR | [Huawei]: Propose to merge. | available |  |
|  |  | S3‑221129 | New solution on UPU based re-authentication procedure | Samsung | pCR | [ZTE]: provides comments. | available |  |
|  |  | S3‑221042 | Key Issue on Security of Interworking | Beijing Xiaomi Mobile Software | pCR | [Huawei]: Propose to merge. | available |  |
|  |  | S3‑221125 | New Key issue on HN initiated Re-authentication | Samsung | pCR | [Huawei]: Propose to merge.  [Samsung] Agree with the merger | available |  |
|  |  | S3‑220836 | KI on Signalling overhead | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220903 | Key issue on KAF refresh without primary reauthentication | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑221093 | Adding a key issue of Multiple registrations | Huawei,HiSilicon | pCR |  | available |  |
| 5.10 | New Study on security aspects of enablers for Network Automation for 5G - phase 3 | S3‑220771 | draft\_TR\_33.738- skeleton for eNA security ph3 | China Mobile | pCR |  | available |  |
|  |  | S3‑220772 | Scope of TR 33.738 | China Mobile | pCR |  | available |  |
|  |  | S3‑220773 | Overview of TR 33.738 | China Mobile | pCR |  | available |  |
|  |  | S3‑220720 | Key issue on Security for data and analytics exchange in roaming | Nokia, Nokia Shanghai Bell | pCR | [China mobile] : Clarifications requested.  [Nokia]: provides clarification  [Huawei]: propose to note this one.  [Nokia]: provide response and request clarifications  [China mobile] : propose to merge 0720 into 0774  [Nokia]: agree with merging 0720 into 0774.  [China mobile] : This thread can be closed and we can discuss in 0774 thread. | available |  |
|  |  | S3‑220738 | New KI on Topology Hiding in Data and Analytics Exchange | China Telecommunications | pCR | [China mobile] : propose to merge this contribution into 0774, and use 0774 as baseline.  [Nokia]: requires clarification  [China Telecom]: fine with the merge proposal, and provides clarification.  [Nokia]: provide observations to previous clarification. NWDAF is an NF.  [China Telecom]:provides clarification.  [China mobile] : This thread can be closed and we can discuss in 0774 thread. | available |  |
|  |  | S3‑220774 | KI on Protection of data and analytics exchange in roaming case | China Mobile | pCR | [China mobile]: provide r1 with 2720 and 0738 merged in  [China Telecom] Fine with r1. | available |  |
|  |  | S3‑220740 | New KI on authorization of selection of participant NWDAF instances in the Federated Learning group | China Telecommunications | pCR | [China mobile] : editorial change requested.  [China Telecom] : provides R1.  [Ericsson] : asks for clarification. | available |  |
|  |  | S3‑220721 | Key issue on Security for AIML model storage | Nokia, Nokia Shanghai Bell | pCR | [China mobile] : merge with 0722 may be needed.  [Huawei]: Agree with merge this one with S3-220722.  [Nokia]: proposes to merge S3-220721 into S3-220722  [Ericsson] : agree on merge | available |  |
|  |  | S3‑220722 | Key issue on Security for AIML model sharing | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220723 | Key issue on Anomalous NF behaviour detection by NWDAF | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: Clarification or modification is required before it’s accpetable. | available |  |
| 5.11 | New Study on Security Enhancement of support for Edge Computing — phase 2 | S3‑220763 | Key issue on security of EAS Discovery Procedure with EASDF | ZTE Corporation | pCR | [Huawei] : requires clarification on the necessity of the new key issue.  [ZTE] : provides clarifications. | available |  |
|  |  | S3‑220877 | new KI on Authentication and Authorization when EHE in a VPLMN | Huawei, HiSilicon | pCR | [IDCC] : Question for clarification on S3-220877 | available |  |
|  |  | S3‑220878 | New KI on Security for DNS server IP address | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220907 | New KI Edge algorithm selection | OPPO | pCR |  | available |  |
|  |  | S3‑221060 | New key issue on authentication and authorization problem for the EEC hosted in the roaming UE | Xiaomi Communication | pCR | [IDCC] : Question for clarification on S3-221060 | available |  |
|  |  | S3‑220908 | New solution Authentication algorithm selection in EDGE | OPPO | pCR |  | available |  |
|  |  | S3‑220909 | New solution Authentication algorithm selection among EEC, ECS, and EES | OPPO | pCR |  | available |  |
|  |  | S3‑221094 | The Scope of the FS\_EDGE\_Ph2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221095 | The Skeleton of the FS\_EDGE\_Ph2 | Huawei, HiSilicon | pCR |  | available |  |
| 6 | New Study/Work item proposals | S3‑220709 | New SID on Personal IoT Networks Security Aspects | vivo, Apple, ZTE, Xiaomi, CATT, OPPO, China Unicom, China Telecom, CableLabs, InterDigital, LGE, Nokia, Nokia Shanghai Bell, Lenovo, Motorola mobility, Philips | SID new |  | available |  |
|  |  | S3‑220719 | New SID: Study on SNAAPP securitY | NTT DOCOMO INC. | SID new |  | available |  |
|  |  | S3‑220764 | Revised SID on AKMA phase2 | ZTE Corporation | SID revised |  | available |  |
|  |  | S3‑220791 | New SID on Study on XR Security | China Mobile | SID new |  | available |  |
|  |  | S3‑220801 | Discussion on Rel-18 study for network slicing security | Huawei, HiSilicon, Lenovo, CATT, CAICT, China Mobile, China Unicom, InterDigital, NEC, Nokia | SID new |  | available |  |
|  |  | S3‑220802 | New SID: Rel-18 study for network slicing security | Huawei, HiSilicon, Lenovo, CATT, CAICT, China Mobile, China Unicom, InterDigital, NEC, Nokia | SID new | [DeutscheTelekom]: supports the SID proposal  [Huawei] : r1 provided to include DT as one of supporting companies. | available |  |
|  |  | S3‑220853 | New WID on Security aspects of 5G Isolated operation for public safety (IOPS) | Huawei, HiSilicon | WID new |  | available |  |
|  |  | S3‑220854 | Discussion paper on 5G IOPS | Huawei, HiSilicon | discussion |  | available |  |
|  |  | S3‑220856 | New SID on security enhancements for 5G multicast-broadcast services Phase 2 | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220857 | New SID on security enhancements for 5GC LoCation Services Phase 3 | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220884 | Discussion paper on security enhancements for 5GC LoCation Services Phase 3 | Huawei, HiSilicon | discussion |  | available |  |
|  |  | S3‑220867 | New SID on Enhancement of User Consent for 3GPP Services | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220895 | New SID on Security aspects for 5WWC Phase 2 | Nokia Solutions & Networks (I) | SID new |  | available |  |
|  |  | S3‑220896 | Discussion on Security aspects for 5WWC Phase 2 | Nokia Solutions & Networks (I) | SID new |  | available |  |
|  |  | S3‑220956 | New SID on security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson, CableLabs, InterDigital, Intel, Xiaomi, Nokia, Nokia Shanghai Bell, ZTE, China Mobile, LGE, Philips, Lenovo, Samsung | SID new |  | available |  |
|  |  | S3‑220957 | Skeleton for proposed FS\_eNPN\_Ph2\_SEC | Ericsson | other |  | available |  |
|  |  | S3‑220975 | Discussion for Study on Zero Trust Security | Lenovo | discussion |  | available |  |
|  |  | S3‑221004 | Study on Zero Trust Security | Lenovo, Motorola Mobility, Interdigital, Verizon, Cablelabs, Mavenir, Johns Hopkins University APL, LG Electronics, Telefonica, NEC, Telia Company, AT&T, Samsung, PCCW Global B.V, China Mobile, Motorola Solutions, Inc, Nokia, Nokia Shanghai Bell, Intel, N | SID new |  | available |  |
|  |  | S3‑220987 | New WID on Study on security of architecture enhancement for UAV and UAM | Qualcomm Incorporated | SID new | [Huawei] : provides comments. | available |  |
|  |  | S3‑221021 | Draft skeleton of TR 33.740 | CATT | draft TR |  | available |  |
|  |  | S3‑221023 | New SID on Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi, Apple, China Mobile, CATT, Huawei, Hisilicon, InterDigital, LGE, Philips, vivo, ZTE, Lenovo, Ericsson, Nokia, Nokia Shanghai Bell, China Telecom | SID new |  | available |  |
|  |  | S3‑221024 | New SID on Security Aspects of Satellite Access | Xiaomi, China Mobile, China Telecom | SID new |  | available |  |
|  |  | S3‑221062 | New SID on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NR Air Interface and NG-RAN | Ericsson | SID new |  | available |  |
|  |  | S3‑221065 | New WID on IETF OSCORE Ua\* protocol profile for AKMA | Ericsson | WID new | [ZTE]: Ask for clarification. | available |  |
|  |  | S3‑221066 | IETF OSCORE as AKMA Ua\* protocol | Ericsson, DT | CR |  | available |  |
|  |  | S3‑221067 | Extending the Ua security protocol namespace to include the AKMA OSCORE Ua\* protocol | Ericsson, DT | CR |  | available |  |
|  |  | S3‑221068 | 5G registration via trusted non-3GPP access after NSWO authentication | Lenovo | discussion |  | available |  |
|  |  | S3‑221069 | New Study to enable 5G registration via trusted non-3GPP access after NSWO Authentication (FS\_5GRTN3) | Lenovo | SID new |  | available |  |
|  |  | S3‑221070 | Study to enable URSP rules to securely identify applications | Lenovo | discussion |  | available |  |
|  |  | S3‑221071 | New Study to enable URSP rules to securely identify Applications (FS\_USIA) | Lenovo, AT&T, Broadcom, CableLabs, CATT, China Mobile, China Telecom, Deutsche Telekom, Intel, LG Electronics, Motorola Solutions MSI, NEC, PCCW Global B.V., Verizon, Xiaomi | SID new |  | available |  |
|  |  | S3‑221074 | 5GFBS - new WID on 5GFBS | Apple, US National Security Agency, AT&T, Deutsche Telekom, Ericsson, Huawei, Hisilicon, CableLabs, Intel, InterDigital, Johns Hopkins University APL, NIST, Xiaomi, OPPO | WID new |  | available |  |
|  |  | S3‑221085 | Discussion on security aspects of NGRTC | Huawei,HiSilicon, Deutsche Telekom | discussion |  | available |  |
|  |  | S3‑221086 | New SID on NGRTC | Huawei,HiSilicon | SID new |  | available |  |
|  |  | S3‑221113 | New SID on Security and Privacy of AI/ML-based services and applications in 5G | OPPO, Apple, vivo, Inter Digital, China Mobile, Samsung, Nokia, Nokia Shanghai Bell | SID new |  | available |  |
|  |  | S3‑221117 | Need for Rel-18 study on UP security enhancement | Samsung, CableLabs, Interdigital | discussion |  | available |  |
|  |  | S3‑221118 | New SID on 5G User plane security enhancements | Samsung | SID new |  | available |  |
|  |  | S3‑221121 | New SID on security aspects of control plane based remote provisioning in Non-Public Networks | Samsung | SID new |  | available |  |
| 7 | CVD and research | S3‑220600 | Reserved | -- | CR |  | withdrawn |  |
| 8 | Any Other Business | S3‑220607 | Meeting calendar | WG Chair | other |  | revised | [S3‑220684](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-05-16_20h03.htm#RANGE!S3-220684) |
|  |  | S3‑220684 | Meeting calendar | WG Chair | other | [Ericsson] : To avoid impact on the Ericsson delegation, please include the holidays Eid al-Fitr and Eid al-Adha in the “Major national holidays” column and avoid collision of future meetings with these holidays. | available |  |