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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<< | Approved |  |
|  |  | S3‑220603 | Process for SA3#107e meeting | WG Chair | other | >>CC\_1<<  [Chair] presents  >>CC\_1<< | Noted |  |
|  |  | 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<< | Noted |  |
| 2 | Meeting Reports | S3‑220602 | Report from SA3#106e | MCC | report | >>CC\_1<<  [Chair] presents  >>CC\_1<< | Approved |  |
|  |  | 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<< | Approved |  |
|  |  | 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<< | postponed |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | S3‑220667 | LS on EPS fallback enhancements | R2-2204236 | LS in | >>CC\_1<<  [VC] presents  >>CC\_1<< | replied | 1064rx |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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. | merged | S3-221162 |
|  |  | 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<<  [Apple]: Propose to use 221064 as the baseline to reply S3-220667/R2-2204236.  >>CC\_3<<  [Ericsson] presents the status.  [Chair] goes to challenge deadline.  **2nd challenge deadline.**  >>CC\_3<<  [Ericsson] provides r1.  [Ericsson] notifies that the agreed S3-221064-r1 is put into a document with Tdoc number S3-221162 and put into the Inbox. | approved | R1  (->S3-221162) |
|  |  | S3‑221109 | Reply LS on EPS fallback enhancements | Nokia Corporation | LS out | >>CC\_1<<  [Nokia] presents  >>CC\_1<< | merged | S3-221162 |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | 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<< | postponed |  |
|  |  | 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<<  [Ericsson]: Proposes to note as there was no time for discussion on this topic about the way forward in SA3. | noted |  |
|  |  | S3‑220678 | LS reply on RAN2 agreements for paging with service indication | S2-2201838 | LS in | [Ericsson]: Proposes to note. SA3 is in the CC. | noted |  |
|  |  | S3‑220680 | LS on MINT functionality for Disaster Roaming | S5-222575 | LS in | [Ericsson]: Proposes to note as there is no action for SA3 and SA3 is in the CC. | noted |  |
|  |  | S3‑220682 | LS on Inter-PLMN Handover of VoLTE calls and idle mode mobility of IMS sessions | S3i220244 | LS in |  | noted |  |
|  |  | S3‑220683 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | other | >>CC\_1<<  [IDCC] presents  >>CC\_1<< | noted |  |
|  |  | S3‑220662 | LS on UE location during initial access in NTN | R2-2201881 | LS in | [Ericsson]: Proposes to note as there is no action for SA3 and SA3 is in the CC. | noted |  |
|  |  | 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 | replied | 1063rx |
|  |  | S3‑220664 | Reply LS on UE location during initial access in NTN | R3-222861 | LS in | [Ericsson]: Proposes to note as there is no action for SA3 and SA3 is in the CC. | noted |  |
|  |  | 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  [Xiaomi]: proposes to note | noted |  |
|  |  | 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.  [Xiaomi]: proposes to note. | noted |  |
|  |  | 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<<  [Apple]: propose to separate this reply with S3-221063.  [Xiaomi]: proposes not to reply | merged | S3-221063rx |
|  |  | S3‑221107 | Reply LS on Reply LS on NTN specific User Consent | Nokia Corporation | LS out | [Huawei]: Not OK with the 3rd paragraph.  [Xiaomi]: proposes not to reply | merged | S3-221063rx |
|  |  | 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<<  [Nokia]: Disagree with point 1.  [Apple]: Provide r2 with revisions on the 1st and 3rd bullet.  [Ericsson] provides r3.  [Xiaomi]: supports r3.  [Qualcomm]: fine with r3 as well.  [Huawei]: Fine with r3.  [Apple]: Disagree with r3. Provide R4.  [Ericsson] requests clarifications.  [Qualcomm]: prefer r3  [Xiaomi]: fine with r3, not fine with 4.  [Huawei]: fine with r3 not r4.  [Apple]: not fine with R3, prefer R4.  [Ericsson] provides comments.  >>CC\_wrapup<<  [Apple] does not agree with r3  [Ericsson] prefers r3  [Thales] supports r3  [Chair] will mark Apple’s disagreement about r3, and approve r3  >>CC\_wrapup<< | approved | R3 |
|  |  | 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 |  |
|  |  | S3-221151 | LS on authentication type and related information of MSGin5G service | C1-223957 | LS in | >>CC\_3<<  [China Mobile] presents and proposes to reply  >>CC\_3<< | replied | 1152rx |
|  |  | S3-221152 | Reply LS on authentication type and related information of MSGin5G service | China Mobile | LS out | >>CC\_3<<  [China Mobile] presents draft reply.  [Chair] goes to email approval, and could be extended to email approval if needed.  >>CC\_3<< | Email approval |  |
|  |  | S3-221153 | LS on Clarification on MBS Security Keys | C4-223302 | LS in | >>CC\_3<<  [Samsung] presents  [Huawei] proposes to reply in this meeting, requests to assign a number for drafting reply LS and goes to email approval if needed.  [Chair] agree with the proposal.for reply LS from this meeting  [Chair] requests Huawei to hold the pen.  [MCC]: draft reply LS is S3-221154  >>CC\_3<< | replied | 1154rx |
|  |  | S3-221154 | Reply LS on Clarification on MBS Security Keys | Huawei | LS out | [Huawei] provided r1 for the new LS reply.  [Samsung]: Proposes to postpone it to next meeting. Discussion is needed for some of the questions and not convinced with reply in r1  [Huawei] proposes to check with SA3 leadership whether the LS is in the scope of next meeting.  [Ericsson] r1 ok, only small update proposed.  [Nokia]: Agree with Samsung to postpone LS response.  >>CC\_wrapup<<  [Huawei] asks whether to go email approval or postpone.  [Chair] goes to email approval.  >>CC\_wrapup<<  [Huawei] provided r2.  [Qualcomm] provides comments  [Huawei] provided r3.  [Huawei] The wrong version is uploaded for r3 in the draft folder. Please find r4.  [Samsung] fine with r4 | Email approval |  |
| 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 |  | approved |  |
|  |  | S3‑220886 | 33.926-Rewrite the 5G MnF GNP model | Huawei, HiSilicon | draftCR | [Nokia]: provides comments and requires potential revise before approval  [Huawei] asks for clarifications on the exact changes to revert  [Nokia]: upload change proposal.  [Huawei] r1 is fine | approved | R1  (to incorporate approved text) |
|  |  | S3‑220887 | 33.926-Add new assets to the OAM functions | Huawei, HiSilicon | draftCR | [Nokia]: provides comments  [Huawei] provides r1  [Nokia] r1 is fine. | approved | R1  (to incorporate approved text) |
|  |  | S3‑220888 | 33.926-Add a new threat | Huawei, HiSilicon | draftCR | [Nokia]: provides comments and ask clarification  [Huawei] provides r1  [Nokia] r1 is fine. | approved | R1 |
|  |  | S3‑220889 | 33.526 - update clause 4.2.3 | Huawei, HiSilicon | pCR | [Nokia]: ask clarification  [Huawei]: Provide clarification. | approved |  |
|  |  | S3‑220890 | 33.526 - update clause 4.2.4 | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3‑220891 | 33.526 - update clause 4.2.5 | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3‑220893 | Living document for MnF SCAS: draftCR to TR 33.926 | Huawei, HiSilicon | draftCR |  | revosed | S3-221171 |
|  |  | S3-221166 | Draft TS33.526 | Huawei, HiSilicon | Draft TS |  | Email approval |  |
|  |  | S3-221171 | Living document for MnF SCAS: draftCR to TR 33.926 | Huawei, HiSilicon | draftCR | R1 is provided | Email Approval |  |
| 4.2 | New WID on SECAM and SCAS for 3GPP virtualized network products | S3‑220840 | Modfiy Scope of TR 33.936 | Huawei, HiSilicon | pCR | [CMCC] proposes to note this one due to related discussion in 839/841 thread, | Noted |  |
|  |  | S3‑220781 | adding overview and Scope of a SECAM SCAS for 3GPP virtualized network products | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] clarifies and proposes a way forward.  [Huawei]: Request more time to discussion  [CMCC] is ok to be noted | Noted |  |
|  |  | S3‑220782 | adding Scope of SECAM evaluation and accreditation for 3GPP virtualized network products | China Mobile | pCR | [Huawei]: ask for clarification on the issue on SECAM versus NESAS.  [CMCC] clarifies that is inline with GSMA NESAS in ralated part.  [Huawei]: Request more time to discussion  [CMCC] is ok to be noted | Noted |  |
|  |  | S3‑220783 | adding the contents of chapters 4.5 to 4.7 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220784 | adding the contents of chapters 4.8 to 4.10 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220785 | adding content to clause 5.1 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220786 | Adding description about general content of SCAS document and ToE to clause 5.2 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220787 | adding description about SPD to clause 5.2 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220788 | adding description about methodology of security requirements to clause 5.2 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220789 | adding description about improvement of SCAS and new potential security requirements to clause 5.3 | China Mobile | pCR | [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220790 | adding description about basic vulnerability testing requirements for GVNP to clause 5.4 | China Mobile | pCR | [Nokia] requests clarification.  [CMCC] provides clarification  [Nokia] proposes to shift the part about “Basic vulnerability testing” to TS 33.527  [CMCC] clarifies BVT description in this contribution is a way forward/methodology rather than requirement definition.  [Huawei]: request clarification and revision before it’s acceptable.  [CMCC] is ok to postpone | Noted |  |
|  |  | S3‑220841 | Modfiy Scope of TS 33.927 | Huawei, HiSilicon | pCR | [Nokia] Suggests revised text for scope of TS 33.927 to align with discussion on scope of TS 33.527.  [CMCC] is fine with the proposal  [Huawei]: Provides further changes.  [CMCC] does not agree with the change from Huawei.  [Huawei]: Propose to note this one and work on together with TS33.527. Propose to work on together during the meeting cycle.  [CMCC] is fine to note this | Noted |  |
|  |  | S3‑220775 | Proposal to add overview in clause 4 Generic Virtulizated Network Product(GVNP) class | China Mobile | pCR | [Huawei]: Ask for clarification and modification before it’s acceptable. Or postpone, we prefer to work on it during next meeting cycle.  And can’t find the grouping email.  [CMCC] asks to withdraw the objection due to compared with wrong TR, and replies in line.  [Huawei]: Provide further comments.  [CMCC] questions to comment  [Huawei]: Request more time to discussion  [CMCC] is ok to be noted | Noted |  |
|  |  | S3‑220776 | Proposal to add clause 4.2 Minimum set of functions defining the GVNP class | China Mobile | pCR | [Huawei]: Ask for revision.  [CMCC] asks for clarification about the comment.  [Huawei]: Provides explanation.  [CMCC] provides clarification on 2nd sentence.  [Huawei]: Propose to revise or note this one at this meeting.  [CMCC] is fine to note this | Noted |  |
|  |  | S3‑220777 | Proposal to add introduction in clause 4.3 Generic virtualized network product model | China Mobile | pCR | [Huawei]: Propose to postpone.  [CMCC] replies  [Huawei]: Request more time to discussion  [CMCC] is ok to be noted | Noted |  |
|  |  | S3‑220778 | Proposal to add GVNP model of type 1 | China Mobile | pCR | [CMCC] provides draft\_S3-220778-r1  [Huawei]: ask for clarification and modification before it’s acceptable.  [CMCC] clarifies and proposes way forward.  [CMCC] provides r2 for final decision  [Huawei]: Request more time to discussion  [CMCC] is ok to be noted | Noted |  |
|  |  | 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.  [Huawei]: ask for clarification before it’s acceptable.  [CMCC] proposes to move discussion in 778 thread and close this thread | Noted |  |
|  |  | S3‑220779 | Proposal to add GVNP model of type 2 | China Mobile | pCR | [Huawei]: Propose to note this one. | Noted |  |
|  |  | S3‑220780 | Proposal to add GVNP model of type 3 | China Mobile | pCR | [Huawei]: Propose to note this one. | Noted |  |
|  |  | 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.  [Nokia] answers to CMCC, continues discussion, and makes proposal for revised scope.  [CMCC] replies. In general ok with the proposal, with a concern on 1st sentence in last paragraph.  [Huawei]: Provides clarification.  [CMCC] is not convinced with clarification.  [Nokia]: tries to help to conclude.  [CMCC] provides clarification  [Nokia]: is still concerned about the overall structure of the SECAM /SCAS documents.  [CMCC] replies.  [Nokia] tries to summarize the discussion.  [Huawei]: Sustain concern about the original scope of TS 33.527. Propose not rush to conclude this meeting.  [CMCC] is fine to note this and keep discussion in this thread | Noted |  |
| 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.  [Keysight]: Provides information  [Ericsson]: proposal to clarify this in TS 33.501  [ZTE]: Provide clarification and fine to note it this meeting.  [Keysight]: Offers support to clarify for next meeting | noted |  |
|  |  | S3‑221090 | New threat on Kausf handing | Huawei,HiSilicon | draftCR | [Ericsson]: clarification needed.  [Huawei]: Provides clarifications.  [Ericsson]: proposes to note. | noted |  |
|  |  | S3‑221091 | threat modifications for token verification | Huawei,HiSilicon | draftCR | [Ericsson]: requires updates.  [Huawei]: agree with Ericsson’s proposal and provide r1.  [Ericsson]: r1 ok. | approved | R1 |
|  |  | S3‑221092 | threat modifications for SEPP | Huawei,HiSilicon | draftCR | [Ericsson]: requires updates.  [Huawei]: agree with Ericsson’s proposal and provide r1.  [Ericsson]: r1 ok. | approved | R1 |
|  |  | S3-221263 | draftCR to 33.926 | Huawei,HiSilicon | draftCR | The draft\_ S3-221263-r1 draftCR to 33.926 in SCAS\_5G\_Phase2 is uploaded | Email approval |  |
| 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  [Keysight]: Provided new tdoc for the revision | approved | R1 |
|  |  | 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.  [CMCC]: comments that this should be a draftCR instead of CR.  [Keysight]: request support to MCC  MCC commented that the CR had to be declared not pursued and a new tdoc number taken for a draft CR (not a revision of the CR).  [Keysight]: New TDoc as draftCR  (Captured by VC)[Rappoteur] will mark this CR as not pursued while draft CR(1157) as approved if no further comment | not pursued |  |
|  |  | 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.  [Keysight]: Provided new tdoc for the revision | approved | R1 |
|  |  | 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.  [CMCC]: comments that this should be a draftCR instead of CR.  [Keysight]: New TDoc as draftCR | not pursued |  |
|  |  | 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 | [Huawei] proposes to note since no consensus is reached on consumer of Naanf\_AKMA\_Context\_Remove service. | noted |  |
|  |  | S3‑220767 | Adding AAnF critical assets and threats to TS 33.926 | ZTE Corporation | draftCR | [Huawei] requires revision before approval.  [ZTE]: Provide clarification  [Huawei] responds to ZTE.  [CMCC] provides clarifications.  [ZTE]: Agree with CMCC  [Huawei]: further clarifications | noted |  |
|  |  | S3‑220768 | Adding Network product class description for the AAnF to TS 33.926 | ZTE Corporation | draftCR |  | approved |  |
|  |  | S3‑220808 | Skeleton for TS33.537(SCAS for AAnF) | China Mobile | draft TS |  | approved |  |
|  |  | S3‑220809 | Scope of TS 33.537 | China Mobile | pCR |  | approved |  |
|  |  | S3-221157 | New threat for confidentiality, integrity and replay between AAnF and AUSF | Keysight Technologies UK Ltd | pCR |  | approved |  |
|  |  | S3-221160 | New threat for confidentiality, integrity and replay between AAnF and AF/NEF | Keysight Technologies UK Ltd | pCR |  | approved |  |
|  |  | S3-221167 | Living document for AAnF SCAS: draftCR to TR 33.926 | China Mobile | other |  | Email approval |  |
|  |  | S3-221168 | draft TS 33.537 | China Mobile | Draft TS |  | Email approval |  |
| 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.  [Qualcomm] produces r1 to try to address comment  [Deutsche Telekom] : is fine with -r1 of both S3-220988 and the attachment  [Huawei] r1 is fine | approved | R1 |
|  |  | S3‑220989 | Proposed scope for TS 33.742 | Qualcomm Incorporated | other | [Deutsche Telekom]:agrees on the proposed scope for TS33.742 | approved |  |
|  |  | 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  [Ericsson] comment  [Qualcomm] responds to comments and OK to note contribution | noted |  |
|  |  | S3-221201 | TS 33.742 | Qualcomm | Draft TS | R1 is provided | Email apporval |  |
| 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 |  | noted |  |
|  |  | S3‑221003 | pCR to TS33.503 Abbreviations update | CATT | pCR | [Xiaomi]: requires revision  [CATT]: Response to Xiaomi.  [Xiaomi]: Provides response to response  [Xiaomi]: Provides comparison between 33.303 and 33.503  [CATT]: Response to Xiaomi.  [Ericsson]: Provides comments  [CATT]: Provide r1.  [Xiaomi]: providing r2  [CATT]: Fine with r2  [Ericsson]: Fine with r2 | approved | R2 |
|  |  | S3‑220966 | Reference point name | Ericsson | pCR | [Ericsson] : r1 is available, S3-221005 is merged into S3-220966  [CATT]: r1 is OK | approved | R1 |
|  |  | 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. | merged | S3-220966 |
|  |  | S3‑221025 | 33.503: Updates in Clause 4.2 | Xiaomi Technology | pCR |  | Approved |  |
|  |  | S3‑221026 | 33.503: Updates in Clause 5.2.5 | Xiaomi Technology | pCR |  | Approved |  |
|  |  | 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.  [Qualcomm]: requests further revision before approval  [Huawei, HiSilicon]: clarify our understanding of error handling.  [Huawei, HiSilicon]: provide r2 for Qualcomm to check. | noted |  |
|  |  | 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  [Qualcomm]: proposes revisions  [Xiaomi]: provides response  [Huawei, HiSilicon]: Fine with the merge plan.  [Qualcomm]: confirm this contribution is merged into S3-221000 | noted |  |
|  |  | S3‑220997 | CR to ProSe TS – An update on MIC calculation for discovery message | Qualcomm Incorporated | pCR | [Huawei, HiSilicon]: clarification is needed before approval. | approved |  |
|  |  | S3‑220998 | CR to ProSe TS – Clarification on discovery message protection | Qualcomm Incorporated | pCR |  | approved |  |
|  |  | 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  [Philips]: Provides comments and draft revision r1  [Xiaomi]: disagrees with r1 and provides further comments  [Ericsson]: supports S3-221000 as a baseline  [Qualcomm]: provides response and r2  [Xiaomi]: disagrees with r2 and provides response  [Huawei, HiSilicon]: Disagree with both r1 and r2 as they reuse the Discovery Request messages in the Discovery with 5G DDNMF procedures. Propose to use new messages to get the U2NW discovery security material.  [Philips] provides comments  [Xiaomi]: still not OK with r2 and provides more comments  [Qualcomm]: answers to Huawei and Xiaomi  [Huawei, HiSilicion]: reply to Qualcomm.  [Xiaomi]: Proposes to note or postpone it  [Philips]: Wonders how we can postpone it, given that this is last meeting on release 17 ProSe, and asks question for clarification.  [Xiaomi]: provides response  [Qualcomm]: provides r3  [Huawei, HiSilicon]: fine with r3.  [Xiaomi]: provides r4  [Huawei, HiSilicon]: Fine with both r3 and r4, but prefer r3.  [Xiaomi]: Only fine with r4, because r3 contains errors. More clarification provided  [Philips]: Provides revision r6  [Qualcomm]: suggests to go with r3, answers to Xiaomi’s question  [Xiaomi]: still prefers r4 and provides more comments  [Qualcomm]: keeps our position (only accept r3)  [Philips]: does not accept r3 or r4, but rather r6  [Xiaomi]: revision on r6 is required  [Philips]: provides r7  [Huawei, HiSilicon]: Fine with both r3 & r7.  [Xiaomi]: fine with r7  [Qualcomm]: provides comments and r8  [Huawei, HiSilicon]: fine with r8.  [Ericsson]: fine with r8.  [Xiaomi]: not fine with r8 which still contains errors; provides comments and r9  [Ericsson]: provides comments to r9  [Xiaomi]: provides response to the comments  (Captured by VC)[Philips] is fine with r8, not r9, proposes r10  [Xiaomi]: not fine with r10 and provides reasons and response to the comments  [Qualcomm]: propose to agree with r8 in this meeting and, suggest to discuss in the next meeting if more clarification is needed. Since this is the last meeting for rel-17, it is important to have an agreement on the Relay discovery procedure. | email approval |  |
|  |  | S3‑221027 | 33.503: Updates in Clause 6.1.3.2 | Xiaomi Technology | pCR | [Qualcomm]: request a revision before approval  [Xiaomi]: Provides r1 | Approved | R1 |
|  |  | S3‑221028 | 33.503: Clarifiacation on MIC Check in Open Discovery | Xiaomi Technology | pCR |  | approved |  |
|  |  | 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. | noted |  |
|  |  | 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.  [Xiaomi]: provides r1 and requests QC to withdrawn the note  [Philips]: r1 seems to be missing  [Xiaomi]: r1 uploaded now  [Philips] ok with both r0 and r1. | noted |  |
|  |  | 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. | noted |  |
|  |  | 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. | noted |  |
|  |  | 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. | noted |  |
|  |  | 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.  [Philips]: responds to comments and provides revision r1.  [Xiaomi]: disagrees with r1 and provides further comments  [Huawei, HiSilicon]: disagrees with r1 and provide comments.  [Philips] clarifies the purpose of r1 and it is conditional on the acceptance of S3-221000  [Philips] provides revision r2  [Qualcomm]: propose to note this contribution (all versions)  [Xiaomi]: not OK with r2  [Philps]: Responds to Xiaomi | noted |  |
|  |  | 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.  [Qualcomm]: proposes to note this contribution | noted |  |
|  |  | 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  [Xiaomi]: provides different revision proposal  [Ericsson]: provides r1  [Xiaomi]: provides r2  [Qualcomm]: is ok with r1  [Ericsson]: fine with r2  [Qualcomm]: provides a comment and fine with r2 | approvedl | R2 |
|  |  | S3‑220969 | Restructure of security requirements for 5G ProSe UE-to-network relay | Ericsson | pCR | [Huawei, HiSilicon]: this contribution should be noted.  [Qualcomm]: proposes to note this contribution | ntoed |  |
|  |  | 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.  CATT]: Response to Huawei  [Philips] agrees that clarification is required.  [Xiaomi]: requires clarification before approval  [Interdigital]: disagrees with removal of this key requirement for CP/UP procedures | noted |  |
|  |  | 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.  [Qualcomm]: provides a comment  [Xiaomi]: provides comments and requires revision | noted |  |
|  |  | S3‑221013 | pCR to TS33.503 Clause 6.3 Remove unnecessary description from UP-based and CP-based procedures | CATT | pCR | [Qualcomm]: provides comments and requests a clarification  [CATT]: provides r1 to address Qualcomm's comment.  [Xiaomi]: requires clarification | noted |  |
|  |  | S3‑221015 | pCR to TS33.503 Clause 6.3 Solution for co-existence of UP and CP security options | CATT | pCR | [Qualcomm]: provides comments and suggestions  [Xiaomi]: revision required before approval  [LGE]: provides comments  [CATT]: Provide r1 to address the comments.  [LGE]: ok with r1  [Xiaomi]: ok with r1  [Qualcomm]: is fine with r1 | approved | R1 |
|  |  | S3‑221034 | 33.503: Updates to General Security Requirements for U2N Relay Communication | Xiaomi Technology | pCR | [Qualcomm]: requests revision before approval  [Xiaomi]: provides clarification  [Interdigital]: agree with Qualcomm: 8th requirement is covered by 7th requirement.  [Xiaomi]: provides response and r1  [Interdigital]: OK with r1  [Qualcomm]: is fine with r1 | approved | R1 |
|  |  | S3‑221035 | 33.503: Updates to Security Requirements for U2N Relay Communication via L3 Relay UE | Xiaomi Technology | pCR | [Qualcomm]: proposes a revision  [Xiaomi]: provides response and asks for clarification before revision  [Qualcomm]: provides a response  [Qualcomm]: provides a clarification  [Xiaomi]: provides r1  [Qualcomm]: is fine with r1 | approved | R1 |
|  |  | S3‑221036 | Discussion on PC5 Key Hierarchy for ProSe U2N Relay Communication | Xiaomi Technology | discussion | [Ericsson] : provides comments  [Qualcomm]: proposes to note this contribution.  [Xiaomi]: provides response and revision | noted |  |
|  |  | S3‑220746 | Remove the EN in the clause 6.3.3.2.2 | ZTE Corporation | pCR | [Qualcomm]: proposes to merge into 220999  [ZTE]: Provide response.  [Qualcomm]: proposes to merge into 220999 with a new text  [ZTE]: Fine with the merger and would like to co-sign. | merged | S3-220999rx |
|  |  | S3‑220842 | Adding UDM Services for SUCI deconceal and authorization information retrieval | Huawei, HiSilicon | pCR | [Ericsson] : provides comments and questions  [Xiaomi]: provides comments and requires revision  [Huawei, HiSilicion]: provides reply/clarification to the comments from Ericsson and Xiaomi.  [Xiaomi]: provides comments and requires revision  [Huawei, HiSilicon]: provides clarification.  [Ericsson]: provides comments.  [Xiaomi]: ok with the contribution  [Huawei, HiSilicon]: provide r1 to address Ericsson’s concern.  [Huawei, HiSilicon]: Check if r1 is fine.  [Ericsson]: r1 is fine | approved | R1 |
|  |  | S3‑220843 | Remote UE Identity provisioning in UE-to-Network Relay communication security procedure over user plane | Huawei, HiSilicon | pCR | [Philips]: expresses privacy and security concerns to provide Remote UE SUPI to UE-to-Network Relay  [Qualcomm]: proposes to note this contribution  [Xiaomi]: same concern as Philips and requires clarification  [Huawei, HiSilicon]: reply to the comments.  [Huawei, HiSilicon]: reply to the comments from Ericsson and provide r1 to only include GPSI.  [Interdigital]: we share similar privacy concerns on providing a long term identity to relay such as GPSI.  [Huawei, HiSilicon]: OK to compromise to use PRUK ID, instead of GPSI or SUPI.  [Ericsson]: provides comments  [Huawei, HiSilicion]: Fine with the merger plan | merged | S3-220967rx |
|  |  | S3‑220869 | Clarification on PRUK ID | Huawei, HiSilicon | pCR | [Qualcomm]: provides r1  [Huawei, HiSilicon]: fine with r1. | approved | R1 |
|  |  | S3‑220881 | Clarification on the description of PRUK | Huawei, HiSilicon | pCR | [Xiaomi]: clarification is required before approval  [Qualcomm]: proposes a revision  [Huawei, HiSilicon]: provide r1 to remove the note.  [Qualcomm]: is fine with r1  [Xiaomi]: ok with the R1 | approved | R1 |
|  |  | S3‑220967 | Remote UE Report in UP based solution | Ericsson | pCR | [Huawei, HiSilicon]: clarification is needed before approval.  [Ericsson]: replies to Huawei’s comments  [Philips]: requests clarification  [Xiaomi]: same view as Philips’ and requests clarification  [Ericsson]: provides clarification  [Qualcomm]: proposes a revision  [Interdigital]: reply to Qualcomm on need to get SUPI. Support Ericsson proposed SUPI resolution mechanism.  [Ericsson]: provides r1  [Huawei, HiSilicion]: Contribution draft\_S3-220843-r2 is merged into this contribution.  [Interdigital]: propose to wording suggested by Huawei.  [Ericsson]: r2 is available  [Interdigital]: ok with r2  [Huawei, HiSilicon]: ok with r2  [Qualcomm]: requests a revision  [Ericsson]: r3 is available | approved | R3 |
|  |  | S3‑220971 | Discussion on UE ID privacy for Remote UE Report | Ericsson | discussion | [Interdigital]: propose to note this paper | noted |  |
|  |  | S3‑220972 | PLMN ID in Direct Security Mode Failure | Ericsson | pCR | [China Telecom]: requests revision before approval  [Qualcomm]: proposes a revision  [Interdigital]: comment missing HPLMN ID input parameter in service operation  [Ericsson]: provides comments  [Ericsson]: r1 is uploaded  [Interdigital]: Ok with r1  [Qualcomm]: is fine with PRUK ID removal in Key request  [Ericsson]: r3 is uploaded (r2 is skipped i.e. not available) | approved | R3 |
|  |  | S3‑220973 | KNRP key derivation | Ericsson | pCR | [Ericsson] : provides question on merge of documents  [Qualcomm]: is fine with the merging proposal | merged | S3-221011rx |
|  |  | 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  [Qualcomm]: provides responses  [Xiaomi]: provides responses to the responses and request revision  [Qualcomm]: provides clarifications  [Huawei, HiSilicon]: this contribution can be revised before approval.  [Xiaomi]: asks questions for clarification  [Qualcomm]: provides r1  [Huawei, HiSilicon]: fine with r1.  [Xiaomi]: fine with r1 | approved | R1 |
|  |  | 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.  [Interdigital]: propose to note this contribution.  [Qualcomm]: provides response. | noted |  |
|  |  | S3‑220999 | CR to ProSe TS – Removing an Editor’s Note in user plane based U2N procedure | Qualcomm Incorporated | pCR | [ZTE]: Ask for R1.  [Qualcomm]: provides r1 as a merger (220999 and 220746)  [ZTE]: Fine with R1. | approved | R1 |
|  |  | S3‑221001 | CR to ProSe TS - Clarification on Knrp derivation for U2N relay over user plane | Qualcomm Incorporated | pCR | [Qualcomm]: provides r1 (merger of 221001 and 220973)  [Ericsson]: fine with r1 | approved | R1 |
|  |  | S3‑221037 | Discussion on Security for ProSe U2N Relay Communication over User Plane | Xiaomi Technology | discussion | [Qualcomm]: proposes to note this contribution | noted |  |
|  |  | S3‑221038 | 33.503: Update to Security Procedure over User Plane | Xiaomi Technology, China Telecom | pCR | [Ericsson] : proposes to note  [Qualcomm]: proposes to note this contribution  [ChinaTelecom]: provide comments  [Xiaomi]: provide responses and requests more clarification before noting it | noted |  |
|  |  | S3‑221039 | 33.503: PRUK Derivation for ProSe U2N Relay Security over User Plane | Xiaomi Technology | pCR | [Ericsson] : proposes to note  [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response, and requires more clarification before noting it | noted |  |
|  |  | 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  [Ericsson]: proposes to note the contribution  [Thales]: disagrees with statement related to 5G ProSe UE capability.  [Qualcomm]: proposes to note this contribution.  [Nokia]: Provide answers. | noted |  |
|  |  | S3‑220706 | Clarify relationship between KAUSF, KAUSF\_P and 5G PRUK | China Telecomunication Corp. | pCR | [Nokia]: suggest to merge.  [Interdigital]: agrees with Nokia merge plan.  [China Telecom]: provides clarification to the comments  [CATT]: Suggest this contribution focuses only on clause A.2 and A.3.  [ChinaTelecom]: Suggest use S3-220706 as baseline.  [Xiaomi]: Proposes to take S3-220706 as the baseline and provides response  [ChinaTelecom]: Proposes draft\_S3-220706-r1.  [Ericsson] : provides comments and questions  [Xiaomi] : provides response  [Interdigital] : provides concrete alternative for P0 definition in 5GPRUK KDF  [Xiaomi]: accepts Interdigital’s suggestion and provides r2  [Interdigital]: provide r3 to complete r2 change  [Xiaomi]: ok with the R3  [Nokia]: comment  [Xiaomi]: provide R4  [ChinaTelecom]: please provides comments with R4.  [Nokia]: R4 is fine.  [Interdigital]: ok with r4  [Ericssonl]: ask a question  [ChinaTelecom]: provides clarifications to Ericsson.  [Xiaomi]: provide clarification  [Ericsson]: ok with r4  [Huawei, HiSilicon]: This contribution needs revision before approval.  [Xiaomi]: provides clarification  [ChinaTelecom]: 220706 merges into 221014, and co-sign with 2201014.  [CATT]: Fine to be merged into 221014. | merged | S3-221014rx |
|  |  | S3‑220707 | Clarify the necessity of refreshing 5G PRUK during CP-based Security Procedure | China Telecomunication Corp. | pCR | [Nokia]: suggest to merge and ask clarification.  [ChinaTelecom]: response to clarification request.  [Nokia]: provide comments and suggest to merge.  [ZTE]: Suggest to merge to 220845 and discuss in 220845 thread.  [Interdigital]: please confirm that thread is now closed (merger -} S3-220845) | merged | S3-220845rx |
|  |  | 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<<  [Interdigital]: this thread is closed with merger -} S3-220845 of the PAnF services definition | merged | S3-220845rx |
|  |  | S3‑220735 | 5GPRUK/5GPRUK ID Storage Options and Way Forward | InterDigital, Europe, Ltd., Ericsson | discussion |  | noted |  |
|  |  | 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. | noted |  |
|  |  | 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.  [Huawei, HiSilicon]: Reply to Interdigital. Ok with 0737.  [Interdigital]: Reply to Huawei. Ok to proceed with merger S3-220737 -} S3-220845  [Huawei, HiSilicon]: OK to use 0845 as merging baseline.  [Interdigital]: declare thread closed with merger S3-220737 -} S3-220845 | merged | S3-220845rx |
|  |  | S3‑220744 | Add some context about 5G PRUK ID reject cases in the clause 6.3.3.3.2 | ZTE Corporation | pCR | [Nokia]: suggest to merge and provide comments.  [Ericsson] : propose to note this contribution  [Xiaomi]: revision is required before approval  [ZTE]: Provide clarification and fine to merge this doc to 220845.  [Interdigital]: disagrees with merger to S3-220845 | noted |  |
|  |  | S3‑220745 | Clarification on AUSF instance store in UDM | ZTE Corporation | pCR | [Ericsson] : propose to note this contribution  [ZTE]: Provide clarification.  [ZTE]: Provide further clarification and ask for Ericsson's position. | noted |  |
|  |  | S3‑220747 | Update the clause 6.3.3.3.3 | ZTE Corporation | pCR | [Nokia]: suggest to merge.  [ZTE]: Agree with Nokia's merge suggestion  [CATT]: Provide merger plan for 1014, 1138, 0747 and 0868. | merged | S3-221014 |
|  |  | 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.  [Ericsson] : provides comments  [LGE] : proposes to note this contribution based on the working agreement made in CC#2, and provides feedback to comments from Ericsson. | noted |  |
|  |  | 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).  [LGE]: declares r1  [Ericsson] : provides comments  [LGE] : provides response to the comments from Ericsson  [Huawei, HiSilicon]: provide views.  [LGE] : provides r2 and r3 as alternatives  [Huawei, HiSilicon]: fine with r3.  [LGE] : thanks He for the confirmation and asks for Ericsson’s feedback.  [Interdigital] : thanks LGE (Dongjoo) for r3. Editorial comment for clarity.  >>CC\_4<<  [LGE] presents status, nearly get consensus without only one company objection.  [Ericsson] comments, still consider the concern are not clarified.  [Chair] proposes a way forward, to have EN and solve it in next meeting.  [IDCC] comments the concerns raised by Ericsson is not valid. Also ProSe context access via AUSF is already agreed as a result of show of hands.  >>CC\_4<<  [LGE] : provides r4 reflecting the comment from Interdigital.  [Ericsson] : propose to note this contribution in r3/r4.  [Huawei, HiSilicon]: Request Ericsson reconsider the decision.  [Interdigital] : reply to Ericsson  [Ericsson] : If our comments below can be turned into EN’s then we withdraw our objection  [Interdigital] : propose a simple resolution for the aspect of multiple Remote User IDs in r5  [Interdigital] : following up with Ericsson on the other Remote UE Report related comments (PAnF service access and SUPI retrieval authorization) and DNN subscription  [LGE] : provides additional comments.  [LGE] : provides feedback to Ericsson.  [Interdigital] : FYI Ericsson’s last 2 messages below did not show up on the reflector. Give additional clarification  [LGE] : we can accept only the last one from the ENs proposed by Ericsson and provides r6.  [Interdigital] : supports LGE, r6 is a reasonable compromise.  [LGE] : provides further feedback in green .  >>CC\_wrapup<<  [LGE] presents status, and request Ericsson to accept the compromise version.  [Ericsson] does not accept.  [IDCC] gives a clarification and comments the Ericsson objection comes from what has been ruled out by the working agreement. The comments are not be valid.  [LGE] comments another EN could be added.  [Ericsson] does not accept the comment.  [Chair] request Ericsson to follow the working agreement  [Ericsson] replies that is not related to working agreement.  [IDCC] comments what the Ericsson objects is the only result of working agreement.  [LGE] comments not all EN could be accepted.  [Chair] proposes a way forward, and that working agreement could be followed.  [Ericsson] proposes to record the objection from Ericsson.  [Chair] requests to capture two ENs (one more in addition to current EN) and approved the contribution with objection recorded.  >>CC\_wrapup<< | approved with sustained objection | R7 |
|  |  | 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).  [Ericsson] : provides comments  [LGE] : provides response and declares r1  [Huawei, HiSilicon]: fine with r1  [LGE] : thanks He for the confirmation and asks for Ericsson’s feedback.  [Ericsson] propose to note.  [Ericsson] propose to note and provides comments.  [Huawei, HiSilicon]: request Ericsson reconsider the position  [Ericsson] : If our comments below can be turned into EN’s then we withdraw our objection  [LGE] : provides feedback to Ericsson.  [Ericsson] : provides feedback and propose EN’s.  [LGE] : provides r2 that includes the ENs proposed by Ericsson  [Ericsson] : is fine with r2  [Huawei, HiSilicon]: fine with r2 | approved | R2 |
|  |  | S3‑220827 | Delete of CP based solution | Huawei, HiSilicon | pCR | [Interdigital]: propose to note this contribution | noted |  |
|  |  | S3‑220828 | Delete of Secondary authentication | Huawei, HiSilicon | pCR | [Interdigital]: propose to note this contribution | noted |  |
|  |  | 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.  [LGE]: proposes to merge this contribution into S3-220816 and have further discussion in that thread.  [Huawei]: agree with merge  [Ericsson] : provides comments | Noted |  |
|  |  | S3‑220844 | Remote UE authorization check in UE-to-Network Relay communication security procedure over control plane | Huawei, HiSilicon | pCR | [Nokia]: suggest to merge.  [Huawei, HiSilicon]: prefer to discuss 0844 and 1139 separately.  [Nokia] More comments.  [Interdigital] agree with Nokia merger proposal S3-220844 -} S3-2201139. | approved |  |
|  |  | S3‑220845 | Resolving the EN on the needs and usage of 5GPRUK ID | Huawei, HiSilicon | pCR | >>CC\_1<<  [IDCC] comments.  >>CC\_1<<  [Interdigital]: Propose to use this as main CP procedure merger baseline.  [Huawei, HiSilicon]: Provide r1 and please use this thread to polish CP procedures.  [Interdigital]: provide r2.  [ZTE]: Provide comments.  [Interdigital]: reply to ZTE.  [LGE]: provides r3 to include LGE as co-signer and to clean up the contribution.  [ZTE]: Provide clarification.  [Xiaomi]: provides comments and requires clarification before approval  [ZTE]: Provide comments.  [LGE]: provides feedback to comments from Xiaomi.  [CATT]: Propose that S3-221016 (except for content using UDM as 5GPRUK storage) is merged into this contribution.  [Xiaomi]: provides responses.  [ChinaTelecom]: provides r4 to include ChinaTelecom and Xiaomi as co-signer and to add some descriptions to make clear.  [LGE]: r4 is fine and shares thought on the comments from Xiaomi.  [Xiaomi]: generally fine with R4  [CATT]: Provide R5  [Huawei,]: Provide R6 to include the subclause of Npanf services.  [ChinaTelecom]: Provide comments to r5 and require clarification.  [Interdiogital]: Provide r7 and marks S3-220734 merged in for the PAnF services added in r6  [MITRE]: requests clarification  [Interdigital]: provides r8  [Nokia]: provide r9  [LGE]: asks a question on the proposed change in step 12  [Nokia]: Answer question on the proposed change in step 12  [ZTE]: Provide comments.  [Xiaomi]: provide R10  [LGE]: r10 is fine to us.  [Huawei, HiSilicon]: fine with r10.  [ChinaTelecom]: Fine with R10.  [ZTE]: Ask for clarification.  [Interdigital]: Fine with r10.  [ZTE]: Provide comments and ask for clarification.  [Interdigital]: reply to ZTE. Propose that Huawei holds the pen for coordinated updates.  [Huawei, HiSilicon]: provide r11 to fix the figure and problem pointed out by ZTE.  [Nokia]: fine with r11.  [Xiaomi]: fine with r11.  [LGE]: we are also fine with r11  [Interdigital]: ok with r11  [ZTE]: Generally fine with R11 and provide some minor comments.  [CATT]: Provide r12.  [Rapporteur]: You don't need to reconfirm later versions if you think it is ok for you, e.g. some wording changes.  [ChinaTelecom]: fine with r11 and r12.  [Samsung]: We would like to co-sign this pCR. Please add Samsung as co-source in the latest version.  [Huawei, HiSilicon]: Will add Samsung in the final submission version.  [Interdigital]: ok with r12 | approved | R12 |
|  |  | S3‑220846 | Format of 5GPRUK ID | Huawei, HiSilicon | pCR | [Nokia] provide comments and ask clarification.  [Huawei, HiSilicon]: provide r1.  [Xiaomi]: requires clarification and requests further revision  [Huawei, HiSilicon]: Provide r2 and reply to Xiaomi.  [CATT]: Need to update “Nudm\_UEAuthentication\_GetProseAv service operation” (in clause 7.4.2.1) so that CT4 can update its TS.  [ZTE]: Suggest to merge 220748-r1 to this 220846.  [Huawei, HiSilicon]: Provide r3 to update the Nudm\_UEAuthentication\_GetProseAv service.  [ZTE]: Provide comments to R3 and require a new version.  [Huawei, HiSilicon]: Provide r4 for editorial change and merge 0748-r1.  [ZTE]: Fine with R4.  [CATT]: r4 is ok.  [Xiaomi]: Fine with R4.  [Nokia]: Fine with R4. | approved | R4 |
|  |  | S3‑220850 | Key derivation related clarification in CP-based UE-to-Network relay procedures | Huawei, HiSilicon | pCR | [Xiaomi]: proposes revision before approval  [Nokia] Provide clarification before approval.  [Huawei, HiSilicon]: Propose to merge this into S3-220845. Reply to Nokia’s comments.  [Huawei, HiSilicon]: This can be discussed in this thread and no need to merge this into S3-220845.  [Interdigital]: provide comment on text duplication  [Huawei, HiSilicon]: provide r1.  [Interdigital]: OK with r1.  [Nokia]: Fine with r1.  [Xiaomi]: provides comments and r2  [Huawei, HiSilicon]: fine with r2.  [Interdigital]: Please fix policies to policy (only one signalling security policy)  [Huawei, HiSilicon]: provide r3 to reflect editorial changes.  [Xiaomi]: fine with r3  [Interdigital]: Ok with r3  [Nokia]: Ok with r3 | approved | R3 |
|  |  | S3‑220852 | Terminology alignment for 5G ProSe Remote UE specific authentication | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3‑220868 | Clarification on KAUSF\_P | Huawei, HiSilicon | pCR | [CATT]: Provide merger plan for 1014, 1138, 0747 and 0868.  [Huawei, HiSilicon]: Fine with the merging plan. We can discuss this under 1014. | merged | S3-221014rx |
|  |  | 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.  [Interdigital]: request confirmation of this thread closure/merger -} S3-220816  [LGE]: provides answers to Interdigital.  [LGE]: r1 is uploaded.  [LGE]: r1 is fine.  [Interdigital]: OK with r1 | approved | R1 |
|  |  | S3‑220883 | Update general clause for secondary authentication | Huawei, HiSilicon | pCR | [LGE]: revision required before approval  [Huawei]: r1 is provided  [LGE]: r1 is generally fine. | approved | R1 |
|  |  | 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. | noted |  |
|  |  | S3‑220934 | Security protocol over CP with 5G AKA to establishPC5 keys | THALES | pCR | [Ericsson] : provides comments  [Thales]: Provides answer  [Interdigital]: supports adding 5G-AKA support. Would like to co-sign.  [Qualcomm]: proposes to note this contribution  [Thales]: answers Qualcomm and provides r1.  [IDEMIA]: supports and would like to co-sign.  [Ericsson]: proposes to note this contribution | noted |  |
|  |  | S3‑220936 | Security protocol over CP with 5G ProSe security context in the USIM | THALES | pCR | [Nokia] provide clarification before approval  [Xiaomi]: requires clarification before approval  [Ericssoni]: provides questions  [Thales]: provides answers.  [Interdigital]: provides comment on USIM support for 5G ProSe security.  [Thales]: provides r1.  [Qualcomm]: proposes to note this contribution. | noted |  |
|  |  | S3‑220965 | Corrections to CP based solution | Ericsson | pCR |  | approved |  |
|  |  | S3‑220970 | Remote UE Report in CP based solution | Ericsson | pCR | [Huawei, HiSilicon]: clarification is needed before approval.  [Ericsson]: replies to Huawei’s comments  [Philips]: requests clarification  [Xiaomi]: same view as Philips’ and requests clarification  [Ericsson]: provides clarification  [LGE]: disagree with the step 19 and 20 in this proposal.  [Interdigital]: OK with principle of SUPI resolution through Remote HPLMN based on a 5GPRUK ID. Need to be aligned with work agreement to use PAnF service through AUSF.  [Philips]: responds to Ericsson's statement on User Info ID.  [Huawei]: Propose merge this contribution into S3-220816, and S3-220845.  [Ericsson]: reject merge of S3-220970 into S3-220816, and S3-220845  [Huawei]: Request a new version  [Ericsson]: Ask for clarification  [Ericsson]: propose to note S3-220970 | noted |  |
|  |  | S3‑221014 | pCR to TS33.503 Clause 6.3 Clarification text for Kausf\_p | CATT | pCR | [Nokia]: suggest to merge.  [CATT]: Provide merger plan for 0706, 1138, 0747 and 0868.  [CATT]: Provide merger plan for 1014, 1138, 0747 and 0868.  [China Telecom]: Provide comments and requires clarification before approval.  [Xiaomi]: proposes to merge 1014 into 0706  [ZTE]: Provide comments.  [Xiaomi]: Provides response  [Huawei, HiSilicon]: proposes to discussion 1014 and 0706 separately.  [Nokia]: Nokia is fine to sperate 0706.  [Xiaomi]: provides comments  [CATT]: provides r1  [Nokia]: Fine with r1  [Huawei, HiSilicon]: Fine with r1 as and ok to merge 0868 into here (1014).  [ZTE]: Fine to merge 747 to 1014 and fine with R1.  [CATT]: Provide r2 for adding co-signer information. | approved | R2 |
|  |  | S3‑221016 | pCR to TS33.503 Clause 6.3 Update security procedure over Control Plane | CATT | pCR | [CATT]: This contribution can be merged into S3-220845, except for the use of UDM as 5GPRUK storage. Further discussion moves to S3-220845 email thread.  [Ericsson] : proposes to note  [CATT] : Response to the comments.  [Ericsson] : withdraw our objection | merged | S3-220845rx |
|  |  | S3‑221137 | CP based security selection | Nokia, Nokia Shanghai Bell, Interdigital, LGE, Samsung | pCR | [Xiaomi]: provides comments and requires clarification before approval  [Ericsson]: proposes to note the contribution  [Nokia]: Provide answers. | noted |  |
|  |  | S3‑221138 | derive 5GPRUK based on Kausf\_p | Nokia, Nokia Shanghai Bell, Interdigital, LGE, Samsung | pCR | [CATT]: Provide merger plan for 0706, 1138, 0747 and 0868.  [CATT]: Provide merger plan for 1014, 1138, 0747 and 0868. | merged | S3-221014 |
|  |  | 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  [Philips] Expresses supports for the pCR and would like to co-sign the proposal.  [Interdigital] Provide some answers to Ericsson and Xiaomi questions/comments.  [Ericssonl] Propose to note.  [Xiaomi]: Provide response | noted |  |
|  |  | S3‑220848 | Clarification on the security of L2 U2NW | Huawei, HiSilicon | pCR | [Interdigital]: revision required  [Qualcomm]: proposes to note this contribution  [Huawei, HiSilicion]: Provide r1.  [Interdigital]: Ok with r1  [Qualcomm]: is fine with r1 | approved | R1 |
|  |  | S3‑221040 | 33.503: Updates in Clause 6.3.4 | Xiaomi Technology | pCR | [Qualcomm]: proposes a revision  [Huawei, HiSilicon]: Provide comments.  [Xiaomi]: Provides response and revision  [Qualcomm]: proposes a revision and provides r2  [Huawei, HiSilicon]: Propose to modify the text in r2.  [Xiaomi]: fine with r2  [Xiaomi]: provides r3  [Huawei, HiSilicon]: fine with r3. | approved | R3 |
|  |  | S3‑220825 | Integrity protection of DCR message | Huawei, HiSilicon | pCR | [Qualcomm]: propose to note as this contribution is merged into 220996  [Huawei]: I think it should be marked as merge, rather than noted.  [Qualcomm]: confirms this is merged into 220996 | merged | S3-220996rx |
|  |  | S3‑220826 | Clarification on the privacy protection of DCR | Huawei, HiSilicon | pCR | [Qualcomm]: provides a comment  [Huawei]: r1 is provided. | noted |  |
|  |  | 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.  [Qualcomm]: provides r1 as a merger  [Philips] minor updates required.  [Qualcomm]: disagree with r2  [Huawei]: fine with r1 and support.  [Philips]: provides feedback.  [Philips]: based on offline discussion, r3 is provided.  [Qualcomm]: accepts only r1 (disagree with r2 and r3)  [Huawei]: fine with r1, neither r2 nor r3  [Philips]: accepts r1. | approved | R1 |
|  |  | S3‑220748 | Update the clause 7.4.2 | ZTE Corporation | pCR | [Ericsson] : provides comment and requires update  [ZTE]: Provide R1.  [Ericsson]: we are fine with r1  [ZTE]: Just for record that 748-r1 is merged to S3-220846. | merged | S3-220846rx |
|  |  | 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  [Xiaomi]: provides comments and requests revision  [Qualcomm]: proposes a revision  [Huawei, HiSilicon]: provide r1 based on comments.  [LGE]: revision required before approval  [Huawei, HiSilicon]: provides r2.  [LGE]: r2 is fine  [Huawei, HiSilicon]: Ask to re-check the email.  [Xiaomi]: OK with r2 | Approved | R2 |
|  |  | 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)  [Ericsson]: ok with this. We can then note this contribution. | Not pursued |  |
|  |  | S3‑221006 | pCR to TS33.503 Wording update | CATT | pCR |  | approved |  |
|  |  | 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. | noted |  |
|  |  | 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<<  [Xiaomi]: proposes r1  [Interdigital]: disagrees with new Q4 and Q5  [LGE]: shares the same view with Interdigital | noted |  |
|  |  | S3-221299 | Cover sheet for TS 33.503 | CATT | TR/TS cover |  | Email approval |  |
| 4.8 | Enhanced security for Phase 2 network slicing (Rel-17) | S3‑220799 | Address EN on alignment to SA2 | Huawei, HiSilicon | CR | [Ericsson]: has doubts about the ENSI solution in the NSACF procedures.  [Huawei]: responses to Ericsson.  [Ericsson]: proposes not to pursue and take the discussion next meeting.  [Xiaomi]: is ok to take the discussion next meeting. | not pursued |  |
|  |  | 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.  [Ericsson]: Has doubts about the terms used in this document and 0799. Provides a way forward for the clause.  MCC commented that eNS2 Phase 2 was now shifted to Rel-18 so any corrections in Rel-17 would have to be under TEI17.  MCC commented that the CR number on the cover page should be “1404” and not “CR1404”.  [Xiaomi]: provides r1 to fix the format problem  [Huawei]: responses to comments from Ericsson and Xiaomi.  [Ericsson] asks for clarifications.  [Huawei] responses to Ericsson.  [Nokia] provide comments.  [Xiaomi] provides r2.  [Nokia] Fine with r2.  [Huawei] provide further comments and disagree to remove ENSI.  [Xiaomi] provides some inputs.  [Nokia] Feedback for the further comments.  [Ericsson]: proposes not to pursue and take the discussion next meeting.  [Xiaomi]: is ok to take the discussion next meeting. | not pursued |  |
|  |  | S3‑220800 | Address EN on AF Authorization | Huawei, HiSilicon | CR | [Ericsson]: Has doubts about the ENSI solution. Proposes changes.  [Huawei] responses to Ericsson.  [Xiaomi] : provides some comments.  [Huawei] : provides responses.  [Xiaomi] : provides clarifications.  [Ericsson]: proposes not to pursue and take the discussion next meeting.  [Xiaomi]: is ok to take the discussion next meeting. | not pursued |  |
|  |  | S3‑221050 | Update Subscription and unsubscription procedure of NSACF notification service | Xiaomi Communication | CR | [Ericsson]: Has doubts about this contribution and the use of ENSI.  [Xiaomi]: provides r1 and clarification.  [Huawei]: disagree to have a complete new alternative solution at this stage.  [Ericsson]: Comments on normative work with ENSI  MCC reminded that work in eNs Phase 2 had been shifted to Rel-18. They also pointed out errors on the cover page ( replace “CR1407” with “1407”), and lack of references to TS 33.122 and RFC 6749. These need to be added in clause 2. In addition to this, we refer to “TS 33.122” and not “33.122”.  [Xiaomi]: provides r2 to fix the format problem  [Ericsson] requests for clarifications.  [Xiaomi]: provides clarifications.  [Nokia]: provides comments.  [Xiaomi]: provides r3.  [Huawei] provide further comments.  [Xiaomi] provides clarification.  [Xiaomi]: is ok to take the discussion next meeting. | not pursued |  |
|  |  | S3‑221061 | Clarification on AF authorization for the NSACF notification procedure | Ericsson | CR | [Huawei] proposes to merge with 0800.  MCC suggested TEI17 as work item on the cover page given that the eNS phase 2 had been shifted to Rel-18.  [Ericsson]: requests MCC for clarifications about eNS2\_SEC. There was or were CR(s) in Rel-17 for eNS2\_SEC. Shouldn’t CRs use the eNS2\_SEC work item code,  MCC clarified that eNS2\_SEC was now considered a Rel-18 work item, so it cannot be used for Rel-17 CRs.  [Xiaomi] provide r2.  [Nokia] comment on R2.  [Xiaomi] provides clarification.  [Nokia] Further comments.  [Xiaomi] provides r3.  [Nokia] Fine with r3.  [Huawei] provide further comments.  [Ericsson] request for clarification for MCC’s comments.  [Huawei] provide clarification in response to Ericsson.  [Ericsson]: proposes not to pursue.  [Xiaomi]: is ok to take the discussion to the next meeting. | not pursued |  |
| 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.  [Lenovo]: Needs Revision.  [Ericsson] : Update needed and concrete proposal provided  [Thales]: asks for change.  [Ericsson] : Propose not to pursue (see comment on 838) | not pursued |  |
|  |  | S3‑220838 | LS on anonymous SUCI | Huawei, HiSilicon | LS out | [Ericsson] : Clarification needed  [Huawei]: Provides clarification.  [Lenovo]: Needs clarification and revision.  [Ericsson] : Propose to note | noted |  |
|  |  | 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.  [Thales]: ask for changes  [Qualcomm]: requires changes before approval; also provides some responses to Thales and Huawei.  [Huawei]: Provides clarification.  [Lenovo]: Need revision  [Thales]: provides answer.  [Huawei]: Provides further clarification.  [Thales]: proposes to note this contribution. | not pursued |  |
|  |  | 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<<  [Ericsson]: Provides revision r2 after discussion in the conference call today. Note that CT1 needs a decision on the UE configuration by tomorrow.  [Nokia]: Provides an proposal for a rewrite.  [Huawei]: Provide r3 in the draft folder.  [Ericsson]: cannot agree on r3, provides revision r4 with minimal changes but enough for CT1.  [Thales]: agrees with r2 and disagrees with r3.  [Nokia]: Is fine R4.  >>CC\_3<<  [Ericsson] presents status.  [Thales] comments the previous version (r2) is better.  [Lenovo] asks the motivation about deletion.  [Ericsson] clarifies, to minimum details.  [Nokia] is fine with r4, but not fine with r2.  [CableLabs] comments but not objecting.  [Ericsson] clarifies.  [Huawei] asks question for clarification.  [Ericsson] clarifies.  [QC] comments, asks question for clarification.  [Ericsson] clarifies  [IDEMIA] comments “shall” is not proper.  [Ericsson] clarifies  [Thales] does not agree with “shall”  [IDEMIA], [Thales] and [QC] are discussion about SUCI generation if there is non-AKA procedure.  [CableLabs] supports “shall”  [Nokia] disagrees to use “shall”, “may” is proper  [Lenovo] comments.  [Ericsson] replies to Lenovo.  [CableLabs]: there is no strong objection on content, but discussion on “shall” or “may”, proposes to keep may to get consensus.  [Chair] asks whether there is objection to use “may”  [IDEMIA] asks whether there is agreement to use anonymous SUCI.  [QC] and [CableLabs] confirms.  [Thales] doesn’t consider proper to leave it to CT to make decision, it should be in SA3 scope, do not agree to use anonymous SUCI, doesn’t agree with last sentence.  [Lenovo] comments.  [CableLabs] asks Lenovo to change mind, as the proposal to make things complex.  [Lenovo] clarifies.  [CableLabs] discusses with [Lenovo]  [QC] suggests a compromised way, to use may with small change, and doesn’t need 2nd sentence.  [Ericsson] with discussion, could the result could be accepted as r5?  [Chair] Suggest to Rajavel(VC) to upload the changes discussed as r5, goes to challenge deadline  **2nd challenge deadline.**  >>CC\_3<<  [SA3 Leadership]: Provides r5, based on the updates done during the conference call.  [Lenovo]: r5 Cover page needs revision.  [Ericsson]: r6 provided with updated cover page  [Lenovo]: r6 is okay.  [Huawei]: fine with R6.  [Thales]: is fine r6.  [Nokia]: Is fine R6 too. | agreed | R6 |
|  |  | 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.  [Ericsson]: Provides revision (r1) and asks Lenovo to withdraw objection after clarification  [Huawei]: Provide r2.  [Ericsson]: r2 OK  [Nokia]: clarification needed before acceptable  [Lenovo]: Provides additional clarification.  For UE onboarding Clause I.9.2.3 Primary authentication using DCS cites I.2.2.2.2 for the procedure, but Clause I.2.2.2.2 does not explains any-where Onboarding related handling and adaptations.  [Ericsson]: providing r3 addressing onboarding scenario.  [Nokia]: Nokia is fine with R3  [Huawei]: Still not fine with r3.  [Ericsson]: providing r4 addressing Huawei’s comment  [Nokia]: Nokia is fine with R4  [Lenovo]: Needs revision as Onboarding SUCI is left out.  Clarifications provided.  Do not agree with r4.  [Ericsson]: providing r5 addressing Lenovo’s comment  [Lenovo]: Needs revision.  do not agree with r5.  [Ericsson]: Providing explanation to the use of “failed authorization” in steps 11-13 and asking for clarification  [Lenovo]: Provides clarification.  [Ericsson]: providing r6 addressing Lenovo’s comments  [Huawei]: fine with r4.  [Lenovo]: r6 is okay to keep up the progress. Consider S3-221022 merged in S3-220913-r6 for the onboarding clarifications.  [Thales]: requests change to complete steps 11-13.  [Ericsson]: providing clarification to Thales  [Thales]: proposes text.  [Ericsson]: providing r7 addressing Thales’ comments  [Thales]: is fine with r7.  >>CC\_wrapup<<  [Ericsson] presents there is figure collision between 1048 and 0913, asks how to solve.  [Xiaomi] is ok to make merger  [Chair] request Ericsson to make merger and go through email approval.  [Chair] 1048 will be merged into 0913, 0913 email approval only about the merger.  >>CC\_wrapup<< | agreed | R7  (S3-221267) |
|  |  | 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. | not pursued |  |
|  |  | 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.  [Qualcomm]: requests clarification from Nokia.  [Thales]: provide comments  [Nokia]: Provides clarification to QUALCOMM.  [Qualcomm]: requests clarification.  [Ericsson]: provide r1  [Nokia]: Needs clarification before acceptable.  [Lenovo]: Provides r2 to clarify the Onboarding specific adaptations.  [Ericsson]: does not agree on r2, provide r3 aligning with Nokia’s comment.  [Thales]: provide comments to r3 and proposes changes.  [Lenovo]: do not agree with r3.  [Nokia]: Nokia is fine with R3.  [Qualcomm]: requires changes  [Thales]: disagrees with r3 | not pursued |  |
|  |  | 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.  [Nokia] : Provides answers and a proposal to rewrite.  [Ericsson] : provide r2 with the proposed change provided by Nokia.  [Nokia] : Nokia is fine to accept R2  [Lenovo] : r2 is okay.  [Thales]: disagrees with r2 and proposes to note the contribution. | not pursued |  |
|  |  | S3‑221002 | Resolving Editor’s note on using only null-scheme SUCI | Qualcomm Incorporated | CR | [Nokia] : Clarifications needed before acceptable.  [Thales] : require changes.  [Qualcomm]: responds  [Lenovo]: Needs revision to be approved  [Qualcomm]: provides r1  [Ericsson]: update needed in step 3  [Lenovo]: Needs revision.  [Thales] : changes required in step 1  [Qualcomm]: provides r2  [Ericsson]: r2 is OK  [Nokia]: Nokia is fine with R2.  [Huawei]: fine with r2.  [Thales]: fine with r2.  [Lenovo]: r2 is okay. | agreed | R2 |
|  |  | 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 | not pursued |  |
|  |  | 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 | not pursued |  |
|  |  | 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.  [Qualcomm]: Requires update before it is acceptable. | not pursued |  |
|  |  | 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.  [Qualcomm]: also proposes to not pursue this CR.  [Nokia]: Provides r1 as compromise based on comments. Please reconsider the proposal to note.  [Thales]: raises comments.  [Nokia]: Provides answer to Thales.  [Qualcomm]: ok with r1.  [Huawei]: OK with r1. Thanks.  [Thales] : asks questions for clarification  [Lenovo] : Provides some clarification.  [Nokia]: Provides answers to Thales and Lenovo  [Thales]: provides answers  [Lenovo]: Agrees with Nokia.  [Nokia]: Provides R2 with the changes proposed.  [Thales]: fine with r2  [Lenovo]: r2 needs clarification.  [Nokia]: Provides answers to Lenovo.  [Lenovo]: r2 is okay. | agreed | R2 |
|  |  | 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).  [Xiaomi] : provides r2 to add supporting companies.  MCC commented that the CR number on the cover should be “1406” and not “CR1406”. The revision on the cover page should be just “1”, because 1049 will only be revised once, drafts don’t count. Revision marks on the cover page should be cleaned up.  Lenovo: Clarifies the relevance of the question to the context of the CR which is very essential to be considered.  [Ericsson] : argues that privacy for EAP-AKA’ in onboarding and anonymous SUCI are independent topics  [Xiaomi]: provides some inputs.  [Lenovo]: Prefers at least a minimal clarification on identifier is required for Onboarding case.  As S3-221020 is resolving the ENs with minimal required clarifications on identifier to be used for Onboarding, Lenovo propose to consider this CR as merged with S3-221020-r6 or propose not to pursue.  [Lenovo]: correcting the revision number of S3-221020. As S3-221020 is resolving the ENs with minimal required clarifications on identifier to be used for Onboarding, Lenovo propose to consider this CR as merged with S3-221020-r5 or propose not to pursue.  [Xiaomi]: provides r3. Since 1049 has details on reason to change, we suggest merge 1020 into 1049.  [Lenovo]: Lenovo do not accept to the justification provided in the coversheet of 1049. Therefore we propose to merge 1049 (as it deleted the EN) as a point of relevance in S3-221020-r5.  [Xiaomi]: To makes the progress. Xiaomi do not against to merge the original version of 1049 into 1020-r5.  [Lenovo]: Thanks for the considerations to keep up the progress. | merged | S3-221020 |
|  |  | S3‑221111 | Derivation of SUPI from default UE credentials | Ericsson, CableLabs, Intel, Qualcomm, Philips | CR | [Ericsson] : proposes to merge in S3-221049  [Qualcomm]: ok with the merge. | not pursued |  |
|  |  | 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  [Qualcomm]: ok with the merge. | not pursued |  |
|  |  | 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. | merged | S3-220939 |
|  |  | 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<<  [Intel] : provides revision r3  [Ericsson] : does not agree with r3, provides revision r4  [Intel] : can agree revision r4  [Ericsson] : minor suggestion by Intel is ok  [Intel] : provides r5  [Ericsson] : minor suggestion by Intel is ok  >>CC\_3<<  [Ericsson] presents update.  [QC] comments the client certificate, proposes the NOTE needs to be modified.  [Intel] asks question to QC  [QC] discusses with [Intel].  [Thales] comments on NOTE.  [Intel] replies to Thales.  >>CC\_3<<  [Intel] : provides r6 based on the discussion on the Wednesday CC.  [Ericsson] : r6 is ok  [Qualcomm]: also ok with r6. | agreed | R6 |
|  |  | S3‑220937 | Terminology correction for security of UE onboarding | Ericsson | CR |  | agreed |  |
|  |  | S3‑220938 | PWS for Non-Public Networks | Ericsson | CR |  | agreed |  |
|  |  | S3‑220942 | Implementation correction of CR1309 | Ericsson | CR |  | agreed |  |
|  |  | S3‑221048 | Update Figure: I.2.2.2.2-1 for consistent service operation names | Xiaomi Communication | CR |  | merged | S3-221267 |
|  |  | 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. | noted |  |
|  |  | 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  MCC commented some issues on the cover page. They also found that the reference to TS 25.501 was missing.  Uploaded r1 to address MCC comments. Also added reference to TS 24.501 that was missed earlier.  [Qualcomm]: same position as Ericsson but with a clarification  [Lenovo]: Uploaded r2 to address MCC comments on cover page.  Provides clarification to Ericsson and Qualcomm. Retain only Onboarding SUCI related change and removed Onboarding SUPI related change in r2.  [Ericsson] : Replies to Lenovo  [Lenovo] : Clarifies the misunderstanding to Ericsson.  [Ericsson] : replies to Lenovo, asks to clearly state the purpose of the contribution in the title and reason for change  [Lenovo] : replies to Ericsson.  The reason for change in the CR very clearly explains and cites along with the discussion paper the need of the CR where it mentions issues with anonymous SUCI using only skipping of username, constant string and its implications to EAP AKA. And cites that the CR resolves the ENs related to the identifier to be sent by the UE for onboarding registration and the title mentions the ENs related to UE onboarding.  [Xiaomi] : requests for clarification.  [Lenovo] : Provides clarification.  [Ericsson] : replies to Lenovo  [Xiaomi] : requests further clarification.  [Lenovo] : Provides further clarification.  [Xiaomi] : requests for further clarification.  [Lenovo] : Provides further clarification.  [Xiaomi] : requests for further clarification.  [Lenovo] : provides further clarification.  [Lenovo] : provides r3.  [Ericsson] : has further comments on r3  [Lenovo] : provided r4, that replaces primary authentication with Onboarding registration.  [Ericsson] : r4 is fine, but please update the cover sheet accordingly  [Lenovo] : r5 provided to fix cover sheet and formatting stuffs suggested.  [Ericsson] : r5 is fine  [Lenovo] : Kindly consider S3-221049 as merged into S3-221020-r5. | agreed | R5 |
|  |  | S3‑221022 | Update to clause I.2.2.2.2 for Onboarding clarifications | Lenovo | CR | MCC commented some issues on the cover page. They also found that the reference to TS 25.501 was missing.  Uploaded r1 to address MCC comments which also includes adding reference to TS 23.501 and TS 24.501.  [Qualcomm]: questions the need for this CR.  Uploaded r2 to address MCC comments which includes marking 1 in the Rev box and removing change marks from CR cover page.  Provides also clarification to Qualcomm.  [Ericsson] : Also questions the need for this CR. Proposal to not pursue (original and r1, r2 was not available) and discuss privacy and identifiers for onboarding in the context of onboarding.  [Lenovo] : r2 is uploaded.  Provided clarification to Ericsson that Onboarding related clause I.9.2.3 cites I.2.2.2.2 for the authentication procedure, therefore onboarding specific clarifications need to be discussed in I.2.2.2.2.  [Ericsson] : disagrees with r2, replies to Lenovo  [Ericsson] : asks Lenovo to consider the onboarding related updates in draft\_S3-220913-r3  [Lenovo]: provides r3 with only necessary changes such as onboarding specific citations which you can check and clarify.  [Ericsson] : disagrees with r3, proposes to focus on the thread for S3-220913 where onboarding adaptions to CH procedure are specified  [Lenovo] : Prefers only to cite other spec references else maintenance will be hard if we write our own text and over-ride something when it is already clearly specified in other related specs.  Disagrees to Ericsson’s comment.  [Lenovo] : For the sake of progress, the aspects on onboarding has been limitedly covered as suggested by you in S3-220913-r6, where Lenovo prefers consider S3-221022 as merged in S3-220913-r6. | merged | S3-220913rx |
| 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. | noted |  |
|  |  | 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<< | replied |  |
|  |  | 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<<  [Ericsson] r1 uploaded where comments were included.  [Huawei] provides further comment.  [Ericsson] r2 {https://www.3gpp.org/ftp/tsg\_sa/WG3\_Security/TSGS3\_107e/Inbox/Drafts/draft\_S3-220958-r2%20Reply%20LS%20on%20Clarification%20on%20MBS%20Security%20Context%20(MSK\_MTK)%20Definitions.docx} uploaded  [Huawei]: fine with r2.  >>CC\_3<<  [Ericsson] presents current status.  [Huawei] is fine with r2, which solve the comment.  [Chair] goes to challenge deadline  **2nd challenge deadline**  >>CC\_3<<  [Huawei]: fine with r2. | Approved | R2 |
|  |  | 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<<  >>CC\_3<<  [Huawei] presents the status. Most active players are ok with the reply, requests to go challenge deadline.  [Chair] requests reply LS goes to 2nd challenge deadline.  **2nd challenge deadline.**  >>CC\_3<< | replied | Reply LS is approved as r2 |
|  |  | 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  [Nokia]: Suggest modifications in Answer 5.  [Huawei] provided r2.  [Nokia]: Agree with r2.  [Ericsson]: r2 ok.  [Qualcomm]: proposes some wording changes in r3  [Huawei] provided r4 with format change.  [Ericsson] r4 ok  [Qualcomm]: is fine with r4  [Qualcomm]: is fine with r4 | approved | R4 |
|  |  | 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. | noted |  |
|  |  | S3‑221148 | Reply LS on secondary authentication for multicast PDU session | S2-2201311 | LS in |  | noted |  |
|  |  | 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. | merged | S3-220858rx |
|  |  | 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 | agreed | R2 |
|  |  | 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  [Huawei]: provides clarification.  [Qualcomm]: proposes a revision for r3 and disagrees with r4  [Huawei]: provides r5.  [Qualcomm]: is fine with r5.  [Ericsson]: r5 is ok.  [Samsung]: For the sake of progress samsung is fine to compromise and suggest an update.  [Huawei]: provides r7.  [Samsung]: Fine with r7 | Agreed | R7 |
|  |  | S3‑221135 | MBS capability exchange and delivery method | Samsung | CR | [Nokia]: Agree with the CR.  [Qualcomm]: proposes to not pursue the CR.  [Samsung]: Provides clarification | not pursued |  |
|  |  | 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.  [Qualcomm]: requests a revision (same position)  [Huawei]: provides r1.  [Ericsson]: r1 ok  [Qualcomm]: is fine with r1 | Agreed | R1 |
|  |  | S3‑220870 | Clarifications on the multicast security context handling in session creation procedure | Huawei, HiSilicon | CR | [Qualcomm]: provides r1  [Huawei]: fine with r1 | agreed | R1 |
|  |  | 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<< | replied | 0918rx |
|  |  | S3‑220653 | Reply LS on AF specific UE ID retrieval | S6-220976 | LS in | [Huawei] : Suggest to Note. | noted |  |
|  |  | S3‑220654 | Reply LS on AF specific UE ID retrieval | S2-2203426 | LS in | [Huawei] : Suggest to Note. | noted |  |
|  |  | 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<<  [Huawei] : provide reply to Ericsson.  [Huawei] : provides reply to Huawei  [Huawei] : provide clarification to Ericsson.  [Ericsson] : provide clarification about GPSI  [Huawei] : provide concrete proposal.  [Ericsson] : provides -r1  [Huawei] : provides update for the r1.  [Ericsson] : comments  [Huawei] : fine with second proposal.  [Ericsson] : provides r2 and ask whether it is ok to reserve a tdoc and upload the LS reply before tomorrow CEST.  [Huawei] : fine with r2, and reserving a tdoc for uploading from my side.  [Qualcomm] : asks a question on proposed response  [Ericsson] : provides r3 implementing Qualcomm’s comment  [Huawei] : Fine with r3. Thanks. | Approved | R3 |
|  |  | 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<< | merged | S3-220918rx |
|  |  | S3‑220676 | Reply LS to GSMA OPG on Further Operator Platform Group questions following SDO Workshop | SP-220346 | LS in | [Huawei] : Suggest to Note. | noted |  |
|  |  | 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. | noted |  |
|  |  | S3‑220681 | Reply LS to ETSI MEC on MEC Federation and interest to collaborate | S6-220931 | LS in | [Huawei] : Suggest to Note. | noted |  |
|  |  | S3‑220922 | Clarification of access token usage in EC | Ericsson | CR | [Huawei] : requires revision.  [Ericsson] : provides r1 that implements the comments and includes GPSI in the token  [Huawei] : Fine with r1. | Agreed | R1 |
|  |  | 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.  [Ericsson] : provides comment  [Samsung] : provides clarification  [Qualcomm] : Not convinced the proposal should be accepted  [Samsung] : Provides clarification  [Ericsson] : provides comment and propose to postpone  [Samsung] : Ok to postpone, provides further clarification to Ericsson | not pursued |  |
|  |  | S3‑221130 | Editorial corrections and technical clarifications | Ericsson | CR | [Huawei] : requires clarification.  [Ericsson] : provides r1 and clarification  [Huawei] : fine with r1. | approved | R1 |
|  |  | 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<<  >>CC\_wrapup<<  [Nokia] this should be replied as 0697, not noted.  [CableLabs] support Nokia’s comment  >>CC\_wrapup<< | replied | 0697rx |
|  |  | 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<< | noted |  |
|  |  | 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<< | noted |  |
|  |  | S3‑220697 | LS reply on 5G NSWO roaming aspects | Nokia, Nokia Shanghai Bell | LS out | >>CC\_3<<  [Nokia] presents  [Chair] goes to challenge deadline  [QC] comments the draft LS out needs to wait the CR.  [Chair] if CR is under discussion, it needs to wait.  >>CC\_3<< | approved |  |
|  |  | S3‑221019 | Draft LS on NSWO security | Ericsson | LS out | [Nokia]: Clarification required  [Nokia]: propose to note the LS | noted |  |
|  |  | S3‑220698 | NSWO alignment with SA2 specs | Nokia, Nokia Shanghai Bell | CR | [Huawei] proposes a more neutral rewording  [Nokia] agree with the suggestion and provides r1  [CableLabs] provide editorial comments on r1  [Nokia] agree with the suggestion and provides r2  [Qualcomm]: requires changes to r2  [Nokia] agrees to revert the change and provide r3  [Qualcomm]: fine with r3. | agreed | R3 |
|  |  | S3‑221098 | Clarification on the NSWO in the UE side | Huawei, HiSilicon | CR | [Ericsson]: Proposes to postpone this CR to the next meeting.  [Nokia]: ask clarification and proposed changes.  [Huawei]: provides reply.  [Huawei] : provides clarification.  [Nokia]: provide further comment  [Huawei] : provides further clarication.  [Nokia]: provide further comment and propose to note the contribution  [Huawei] : provide reply to NOKIA’s comments, and not agree with Note.  [Qualcomm]: provides clarification.  [Nokia]: provide further comment  [Ericsson]: Provides a clarification and proposes a way forward.  [Lenovo]: supports Ericsson’s way forward proposal.  [Huawei] : provides reply to way forward proposal, and r1 in which SUCI related is removed.  [Lenovo]: OK with revision r1.  [Nokia]: OK with revision r1.  [Ericsson]: Fine with revision r1 in the CR body, and proposes to update the cover page.  [Huawei] : provide r2 with changes in the ”reason for change” part.  [Noka] : fine with the content and provide editorial comment.  [Ericsson] : fine with r2.  [Huawei] : reply to Saurabh that changes over changes will be removed before uploading | agreed | R2 |
|  |  | S3‑220818 | Summary for Non-Seamless WLAN offload authentication in 5GS | Nokia Solutions & Networks (I) | WI summary |  | noted |  |
|  |  | S3‑221018 | NSWO security revisited | Ericsson, Deutsche Telekom, Vodafone | discussion | [Nokia]: Clarification required  [Ericsson]: Provides clarification.  [Lenovo]: requests clarification.  [Ericsson]: Provides clarification.  [Lenovo]: Provides comments, asks question.  [Ericsson]: Provides clarification that AVs for primary authentication and NSOW authentication are not the same.  [Lenovo]: asks for more clarification  [Nokia]: Provides more information | noted |  |
|  |  | 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<<  [Nokia]: OK with taking the S3-221082 as LS Reply.  [Xiaomi]: proposes not to reply  [Qualcomm]: proposes to note (or mark it as replied to in S3-221063 if the reply proposed in this doc gets agreed by SA3)  [Apple]: propose to reply independently. | noted |  |
|  |  | S3‑220864 | Address EN for UC3S | Huawei, HiSilicon | CR | [Ericsson] : Ask for clarification  [Nokia] : Ask for update.  [Huawei]: Provides clarification and hope this addresses all comments.  [Nokia]: Provides responses.  [NTT DOCOMO]: requires updates  [Huawei]: Provides r1 in the draft folder.  [Nokia]: does not agree with r1.  [Nokia]: provides additional update proposal.  [Huawei]: Provide r2.  [Nokia]: ok with r2, but r3 for clean up & co-supporters needed  [NTT DOCOMO]: ok with r1  [NTT DOCOMO]: -r2 is unclear, needs revision  [Huawei]: Provide r3 accordingly.  [NTT DOCOMO]: fine with r3  [Nokia] : requests update to -r3  [Huawei]: Suggest to agree on r3 to close this discussion.  [Nokia]: responds to Huawei. Let’s take up in plenary.  >>CC\_wrapup<<  [Nokia] proposes to go for email approval  [Huawei] doesn’t think that is help  [NTT Docomo] clarifies  [Chair] bring it back in next meeting.  >>CC\_wrapup<< | Not pursued |  |
|  |  | S3‑220865 | Clarification on Enforcement Point for User Consent | Huawei, HiSilicon | CR | [Nokia] : this is a revision of CR 1331. Updates requested.  [Huawei]: Provide the clarification.  [Nokia] : provides reasoning and suggests more update.  [NTT DOCOMO] proposes an update.  [Nokia] : consolidating the proposals from NTT Docomo and Nokia | Not pursued |  |
| 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<<  >>CC\_4<<  [Huawei] drafts a LS out, presents.  [Ericsson] comments, and prefers r2 compared with r1  [Mavenir] clarifies, OK with r2  [Huawei] clarifies  [NTT Docomo] comments, agrees to including the added wording.  [CableLabs] minor editorial suggestion. >>CC\_4<< | Agreed |  |
|  |  | 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 |  | Agreed |  |
|  |  | 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 |  | Agreed |  |
|  |  | 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.  [Mavenir] : Thanks for the clarification. Makes a proposal that require more clarifications and a response.  [Ericsson] : proposes reformulations to r1  [Huawei] : propose the concrete proposal.  [Ericsson] : comments on Huawei’s proposal  [Nokia] : comments and suggests update.  [Nokia] : -r2 uploaded, implementing the proposed way forward.  [NTT DOCOMO]: comment  [Ericsson] : agrees with r2  [Huawei] : provides further clarification.  [Ericsson] : replies to Huawei  [Huawei] : fine with r2. | Agreed | R2 |
|  |  | S3‑220729 | Authorization of N32-f connection establishment with TLS | Nokia, Nokia Shanghai Bell | CR |  | agreed | R1 |
|  |  | 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. | merged | S3-221099\_rx |
|  |  | 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.  [Mavenir] : provides r2. Keep text that is only applicable to the clause the EN is captured in.  [Huawei] : provides r3 with NOKIA co-signed.  [Nokia] : does not agree with -r3, uploads -r4 as agreed for merger and co-signing  [Mavenir] : disagree with r4 and support r3 only.  [Ericsson] : agrees with r2 and r3, disagrees with r1 and r4  [Nokia] : clarifies the need of resolution of EN with reference and proposes 2 alternatives. R18 study can look at solutions, but earlier releases must have the warning at least.  [Ericsson] : replies to Nokia  [Mavenir] : disagree with the proposed changes and continue to support r3 as a way forward.  [Nokia] : replies  [Mavenir] : responding to Nokia argument inline.  [Ericsson] : replies to Nokia  [Nokia] : does not see support. agrees on -r3. | agreed | R3 |
|  |  | 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  [Ericsson] : replies to China Telecom  [Nokia] : replies to Ericsson’s concern/question  [NTT DOCOMO]: request clarification - is this Cat B against R16, If not, why is this considered Cat F,  [China Telecom] :The category should be cat-F. Provides more clarification to Ericssion.  [NTT DOCOMO]: request clarification - This looks like a new feature. Why is it Cat F,  [China Telecom] :Provides clarification.  [Mavenir] : Provides r1.  [China Telecom] :Fine with r1. Provides r2 to correct a typo.  [Nokia] : requests updates  [Ericsson] : believes that further clarifications are necessary (r1, r2 and also Nokia’s proposed simplification)  [China Telecom] :Provides r3. Provides clarification to Ericssion.  [Mavenir] : supports Cat. B as I do not think this a fix for any existing problem.  [Huawei] : provides some clarifications.  [Mavenir] : agree it is a clarification and not a new feature.  [Nokia] : agrees with -r3 and provides -r4 which is cleaning up the changes over changes and updates to Cat F  [China mobile] : generally agrees with r4 and request some clarification.  [Ericsson] : believes this topic requires further discussion, hence disagrees with r3 and r4  [Mavenir] : provides clarification to E/// Model-D questions.  [Ericsson] : replies to Mavenir  [Mavenir] : replies to Ericsson  [Nokia] : understands point of Ericsson to have more time for study. Nokia proposes to maintain status by transferring the CR -r4 to DraftCR and continue from there next time  [China Telecom] :Agree with Nokia's proposal to transfer r4 to DraftCR.  [Ericsson] : DraftCRs should capture \_agreed\_ changes that just need further work before implementation as a CR, or capture one of several solution proposals. This is not the case, so therefore this CR should not be converted to draft-CR. | Not pursued |  |
|  |  | S3‑220766 | Adding authorization for delegated discovery(mirror) | China Telecommunications | CR |  | Not pursued |  |
|  |  | S3‑220943 | Clarification on the certificate profile for SCP and SEPP | Ericsson, Nokia, Nokia Shanghai Bell | draftCR | [Nokia] : request to transform Draft CR, which was agreed in last meeting, into a CR and agree on the minimal set  [NTT DOCOMO]: propose to wait to next meeting with this conversion  [Ericsson] : ok to wait one meeting cycle before converting to CR | approved |  |
|  |  | S3‑220944 | SEPP interconnect certificate profile | Ericsson | other | [Huawei] : request clarification.  [Ericsson] : tries to clarify  [Huawei] : Provide further comment, and concrete proposal.  [Ericsson] : provides r1 and tries to clarify  [Huawei] : provides further comments.  [Mavenir] : Not to pursue this CR  [Ericsson] : tries to clarify  [Mavenir] : confirm Mavenir is inline with E/// understanding. Comment inline. | noted |  |
|  |  | S3‑220945 | Clarification on CN-ID when it is presented in the certificate | Ericsson | CR | [Huawei] : request clarification.  [Ericsson] : provides r1  [Huawei] : Huawei is fine with r1. | Agreed | R1 |
|  |  | S3‑220946 | Clarification on CN-ID when it is presented in the certificate | Ericsson | CR |  | agreed | R1 |
|  |  | S3‑220947 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR | [Huawei] : request clarification.  [Ericsson] : tries to clarify  [Huawei] : Suggest to note this contribution, and provide the consolidate version for all the parameters in the next meeting.  [Ericsson] : proposes to convert to draft-CR  [Huawei] : propose to note this CR. | Not pursued |  |
|  |  | S3‑220948 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR |  | Not pursued |  |
|  |  | 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 | >>CC\_4<<  [Ericsson] presents.  [Nokia] requests to postpone next meeting for checking  [Mavenir] has same requests to postone  [NTT Docomo]: it looks like a new feature, should be cat-B instead of cat-F?  [Ericsson] clarifies about type.  [Huawei] : it needs further discussion.  >>CC\_4<<  [Nokia] : requests to convert into DRAFT CR  [Ericsson] : ok to not pursue at this meeting to give companies more time to analyze | not pursued |  |
|  |  | 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 |  | not pursued |  |
|  |  | S3‑220952 | LS on PLMN ID used in Roaming Scenarios | Ericsson | LS out | [NTT DOCOMO]: propose to address SA2 in 'to:' and in action as well  [Ericsson] : provides r1  [NTT DOCOMO]: -r1 ok, but comments  [Huawei] : generally OK with r1, and request further clarification.  [Ericsson] : replies to NTT DOCOMO and Huawei  [Huawei] : fine with r1. Let’s talk with SA2 and CT4 at first.  >>CC\_wrapup<<  [Nokia] asks to go email approval as there is lack of time to check the latest version  [Ericsson] is ok to go email approval?  [Chair] Confirms, ok to go email approval.  >>CC\_wrapup<<  [Nokia] : provides r4 | email approval |  |
|  |  | S3‑220951 | SEPP to include and verify the source PLMN-ID | Ericsson, Nokia, Nokia Shanghai Bell, Mavenir | draftCR |  | approved | R1  (to incorporate approved text) |
|  |  | S3‑220953 | SEPP handling of PLMN-ID in Roaming scenarios for PLMNs supporting more than on PLMN-ID | Ericsson | other |  | approved |  |
|  |  | S3‑220954 | Clarification of SNI usage for NF clients and servers | Ericsson | CR | [Huawei] : request clarification.  [Ericsson] : tries to clarify  [Huawei] : provide further comments.  [Ericsson] : tries to clarify  [Huawei] : provide further comments.  [Nokia] : proposes to reduce to minimal changes. Reference RFC7540 instead.  [Ericsson] : provides r1 and clarifies  [Huawei] : not OK with r1. Suggest to Note in this meeting. | not pursued |  |
|  |  | 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.  [Huawei] : Concrete propose to make the way forward.  [Nokia] : request to note.  [Huawei] : provides r2 for clarification.  [Ericsson] : r2 goes in the right direction, but need more time to analyze, propose to not pursue at this meeting  [Huawei] : Please mark this contribution and its mirrors as Noted. | not pursued |  |
|  |  | S3‑221101 | Clarification on IV usage on N32-f protection-R16 | Huawei, HiSilicon | CR |  | not pursued |  |
|  |  | S3‑221102 | Clarification on IV usage on N32-f protection-R17 | Huawei, HiSilicon | CR |  | not pursued |  |
|  |  | S3‑221103 | Clarification on handling of the incoming N32-f message in the pSEPP side – R15 | Huawei, HiSilicon | CR | [Nokia] : asks for updates  [Ericsson] : Asks for clarification. This looks like a major change of PRINS, if that is correct we should discuss the proposed changes in detail and not agree on them quickly in one meeting.  [NTT DOCOMO]: requires updates  [Nokia]: change 1+2 should to be taken out. please provide revision for change 3 only, keeping in mind our earlier comment.  [Huawei] : Provide clarification before providing a new revision.  [Mavenir] : Propose this CR to be not pursued.  [NTT DOCOMO]: agree with Mavenir, also with Mavenir's proposal to ask CT4 if they feel that there is a misalignment.  [Ericsson] : supports the proposal to not pursue the CR and send an LS to CT4 to make them aware of the misalignment  [Huawei] : provides clarification.  [Mavenir] : Agrees with the proposal with clarification and comment(s) inline.  [Huawei] : provide reply, and draft LS for review.  [Mavenir] : provides r2 for proposed draft LS for review.  [Nokia] : 1103 to be noted, since LS will be sent instead. Please get a new tdoc number for the LS and provide own thread. request to put the LS on email approval.  [Ericsson] : agrees with r2 of the draft LS  [Huawei] : propose to note S3-221103/221104/221105. Please shift the LS discussion to the S3-221163 email threads. | not pursued |  |
|  |  | S3-221163 |  | Huawei, HiSilicon | LS out | [Huawei] : provides r1 of the LS to CT4 on handling of the modification policy in the IPX and receiving SEPP  [Huawei] : r1 is good. Thanks!  [Huawei] : fine with r1.  >>CC\_wrapup<<  [  >>CC\_wrapup<<  [Huawei] : the clean version r2 is uploaded in the draftfolder for email approval.  [Nokia] : -r3 uploaded | Email approval |  |
|  |  | S3‑221104 | Clarification on handling of the incoming N32-f message in the pSEPP side – R16 | Huawei, HiSilicon | CR |  | not pursued |  |
|  |  | S3‑221105 | Clarification on handling of the incoming N32-f message in the pSEPP side – R17 | Huawei, HiSilicon | CR |  | not pursued |  |
|  |  | 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  [Nokia] : proposes to approve 1131 and create the related CR for agreement.  [Ericsson] : replies to Deutsche Telekom  >>CC\_4<<  [CableLabs] proposes to convert to CR.  [Nokia] how to move this draft CR to regular CR?  [MCC] when draft CR is approved, a new Tdoc# could be requested to make a CR.  [Ericsson] not correct to change this draft CR to CR directly.  [Huawei] the procedure is not clear. Draft CR is used to collect the agreed content. But formal approval makes confusion.  [Docomo] prefers to submitted as a CR next meeting, has bad experience to convert draft CR to CR in one meeting.  [Huawei] comments it can be brought as a proper CR in the next meeting, if the content is stable. >>CC\_4<<  [Nokia] : This is the Draft CR from last meeting, could be transformed into a CR and go for email approval. | approved |  |
|  |  | 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 | noted |  |
|  |  | 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. | Agreed |  |
|  |  | S3‑220750 | Correction on clause F.2.1 in TS 33.926-R17 mirror | ZTE Corporation | CR |  | Agreed |  |
|  |  | S3‑220751 | Update the test case in TS 33.216 clause 4.2.2.1.10 | ZTE Corporation | CR | [Huawei]: we propose to noted this contribution in this meeting.  [ZTE]: Fine to note this CR this meeting. | Not pursued |  |
|  |  | S3‑220875 | Delete Use Case on Finding the right NF instance are serving the UE | Huawei, HiSilicon | CR |  | Agreed |  |
|  |  | S3‑220876 | Delete Threat Analysis on Finding the right NF instance are serving the UE | Huawei, HiSilicon | CR |  | Agreed |  |
| 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<< | replied | S3-220872r3 |
|  |  | 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.  [Qualcomm]: r1 is OK  [Ericsson] : proposes updates before approval  [Nokia] : proposes updates before approval  [Huawei] : provides clarification.  [Ericsson] : comments  [Huawei] : provides clarification.  [Huawei] : provides r2 and r3.  [Qualcomm] : OK with r3  [Ericsson] : r3 is ok | approved | R3 |
|  |  | 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. | merged | S3-220872rx |
|  |  | 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.  [Qualcomm]: OK to merge into S3-220872 | merged | S3-220872rx |
|  |  | S3‑220700 | High-reliability requirement of UAV | Nokia, Nokia Shanghai Bell | CR | >>CC\_1<<  [Nokia] presents.  >>CC\_1<<  [Huawei]: proposes to note the contribution.  [Qualcomm]: does not agree with the contribution | not pursued |  |
|  |  | S3‑220984 | Clarification on ‘high reliability’ location information | Qualcomm Incorporated | CR | [Nokia]:Clarification asked  [Huawei]: provides r1.  [CATT]: provides r2.  [Nokia]: not agree with high-reliability term.  [Ericsson] : request clarification  [Huawei] : provide clarification and r3.  [Nokia] : fine with the revision  [Ericsson] : r3 is ok  [CATT]: provide r4.  [Huawei]: fine with r1.  [Ericsson] : r4 is also ok  [Huawei]: fine with r4.  [Qualcomm]: OK with r4. | agreed | R4 |
|  |  | 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.  [Qualcomm]: Proposes to note  [Lenovo]: Needs minor revision. | not pursued |  |
|  |  | S3‑220979 | Resolving the EN on CAA level ID during UUAA procedures | Qualcomm Incorporated | CR | [Huawei]: provides comments.  [Lenovo]: Need revision to be approved | not pursued |  |
|  |  | 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. | merged | S3-220964rx |
|  |  | 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.  [Lenovo]: provided r1 that merges S3-220980, S3-220804, and S3-220964.  [Qualcomm]: OK with proposal to merge  [Lenovo]: Uploaded r1 with the correct name as draft\_S3-220964-r1.  [Huawei]: OK with content.  [Lenovo]: Uploaded r2 with the source names from the merged CRs.  [Qualcomm]: r2 is Ok but one affected clause is missing on coversheet  [Lenovo]: Uploaded r3 that added the affected clause and CR revision history in coversheet. | agreed | R3 |
|  |  | S3‑220980 | Resolving the ENs related to re-authentication | Qualcomm Incorporated | CR | [Huawei]: propose to merge 0980, 0804, 0964.  [Lenovo]: Propose to merge S3-220980, and S3-220804 in S3-220964.  [Qualcomm]: OK to merge S3-220980 | merged | S3-220964rx |
|  |  | S3‑220960 | Correction to Clause 5.2.1.5 UUAA Revocation | Lenovo | CR | [Qualcomm]: Propose changes to make the contribution acceptable  [Lenovo]: Uploaded r1 to onboard Qualcomm’s feedback.  Provides also clarifications for the initial draft.  [Qualcomm]: r1 is OK | agreed | R1 |
|  |  | S3‑220961 | Correction to Clause 5.2.2.4 UUAA Revocation | Lenovo | CR | [Qualcomm]: Propose changes to make the contribution acceptable  [Lenovo]: r1 is provided exactly as suggested by Qualcomm.  [Qualcomm]: r1 is OK  [Qualcomm]: r1 is OK | approved |  |
|  |  | S3‑220977 | Adding terms and abbreviations | Qualcomm Incorporated | CR |  | agreed |  |
|  |  | S3‑220978 | Adding text for the Overview clause | Qualcomm Incorporated | CR | [Lenovo]: Needs revision  [Qualcomm]: r1 uploaded  [Lenovo]: r1 is fine. | agreed | R1 |
|  |  | S3‑220981 | Resolving the ENs on CAA level ID during revocation | Qualcomm Incorporated | CR | [Huawei]: provides comments.  [Lenovo]: Needs revision to be approved. | not pursued |  |
|  |  | S3‑220982 | Removing EN on USS authorisation | Qualcomm Incorporated | CR |  | agreed |  |
|  |  | S3‑220983 | Removing EN on TPAE | Qualcomm Incorporated | CR |  | agreed |  |
|  |  | S3‑220986 | Resolving the ENs on protection of UAS data | Qualcomm Incorporated | CR | [Lenovo]: Needs revision to be approved.  [Qualcomm]: Provides r1  [Lenovo]: r1 is okay. | agreed | R1 |
|  |  | S3‑220693 | Aligning text for AKMA procedure | Nokia, Nokia Shanghai Bell | CR |  | agreed |  |
|  |  | S3‑220694 | Clarification on anonymization api | Nokia, Nokia Shanghai Bell | CR | [Ericsson]: Ericsson disagrees with the CR. Proposes way forward.  [Nokia]: provide clarification, agree on the proposed solution and provide r1  [Ericsson]: proposes changes if there is time.  [Nokia]: provide clarification  [Ericsson]: is fine with r1. | agreed | R1 |
|  |  | S3‑220752 | Correct AAnF service in clause 6.3 | ZTE Corporation | CR | [Ericsson]: proposes changes.  [ZTE]: Provide R1  [ZTE]: Provide R2  [Ericsson]: proposes changes.  [Ericsson]: is fine with r2. | agreed | R2 |
|  |  | 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.  [Huawei]: provide suggestion  [ZTE]: Response to Huawei and provide R3  [Nokia]: Fine with the revision.  [Huawei]: fine with r3 | agreed | R3 |
|  |  | 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.  [Ericsson]: Proposes clarifications.  [China Telecom]: Provides clarifications and r2.  [Nokia]: I am fine with Ericsson proposal, but changes are not incorporated in v2.  [China Telecom]: Provides clarifications.  [Nokia]: fine with the clarification  [Ericsson]: is fine with r2.  [CMCC]: is fine with r2. | agreed | R2 |
|  |  | 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.  [Ericsson]: provides clarifications.  [Ericsson]: provides clarifications and a possible way forward.  [Ericsson]: provides clarifications  [Ericsson]: provides clarifications. Proposes to postpone this to the next meeting.  [CMCC]: provides clarifications.  [Ericsson]: proposes to postpone the discussion for the next meeting.  [CMCC]: fine to postpone. | postpone |  |
|  |  | S3‑220805 | Issue of NSSAA in multiple registration | Huawei, HiSilicon | discussion | [Ericsson] proposes to note. | noted |  |
|  |  | 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  [Huawei] responses to Ericsson’s comments.  [Nokia] provide revision before approval.  [Huawei] provide r1 based on Nokia’s suggestion.  [Huawei] provide r1 based on Nokia’s suggestion.  [Huawei] provide r1 based on Nokia’s suggestion. | not pursued |  |
|  |  | S3‑221088 | editorial changes of ENSI | Huawei,HiSilicon | CR |  | agreed |  |
|  |  | S3‑221089 | mirror-editorial changes of ENSI | Huawei,HiSilicon | CR |  | agreed |  |
|  |  | 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  [Huawei] provides replies  [Qualcomm]: proposes to not pursue.  [Huawei] fine to not pursue and provides clarifications  [Qualcomm]: clarifies. | not pursued |  |
|  |  | S3‑220862 | Address EN for LTE UP IP | Huawei, HiSilicon | CR |  | merged | S3-221143rx |
|  |  | S3‑220959 | UP IP: mapping of EPS integrity algorithm to NR integrity algorithm | Ericsson | CR | [Huawei] request some changes  [Ericsson] we are fine with r1 | agreed | R1 |
|  |  | S3‑221143 | Avoid linkage between security functions and UE Radio Access Capabilities | VODAFONE | CR | [Huawei] proposes to merge with 862  [Huawei] proposes to merge with 862 and retain the use of EIA7.  >>CC\_4<<  [Huawei] comments  [VF] clarifies and merges 862 with this.  [Huawei] doesn’t agree with the change of changing the algorithm naming convention, creates confusion..  [VF] replies.  [Huawei] discusses with [VF]. >>CC\_4<<  [Vodafone]: provides 1143r1 with 0862 merged into it.  [Vodafone]: provides 1143r1 with 0862 merged into it.  [Vodafone]: provides 1143r2 that (as requested by Huawei) perpetuates the error on EIA7.  [Huawei] r2 is fine | agreed | R2 |
|  |  | 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.  [Nokia]: provide an alternative option because it has an impact on multiple (legacy) AMFs  [Nokia]: object to the proposal if not clarified tailing email discussion  >>CC\_4<<  [Ericsson] presents status.  [Nokia] comments, another method possible  [QC] comments, that there multiple issues related to multiple registrations in different PLMNs, there are different contributions also. Easier if discussed together.  >>CC\_4<<  [NEC]: requests to Note the CR and discuss this in between next meeting. | not pursued |  |
|  |  | S3‑220963 | 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.  [Ericsson]: provides comments  [NEC]: provides response to Monica.  [Ericsson]: provides comments  [NEC]: responds to Ericsson.  [NEC]: proposes to note the CR. | not pursued |  |
|  |  | S3‑221132 | Discussion on security procedure during registration procedure over two different PLMN | NEC Corporation | discussion | [Ericsson] : provides comments  [Ericsson] : proposes to note this paper | noted |  |
|  |  | S3‑221134 | Update to NAS security context procedure when UE is registering over two different PLMNs | NEC Corporation | CR | [Ericsson] : provides comments  [Kundan] : provides comments  [Ericsson] : proposes to note this paper  [Qualcomm] : proposes to note this paper  [NEC] : requests Qualcomm to provide evidence that proposed text is covered somewhere. (some where) is vague and misleading argument.  [NEC] : requests Qualcomm to provide evidence that proposed text is covered somewhere. (some where) is vague and misleading argument.  [NEC] : proposes to captures basic missing UE behaviour.  >>CC\_4<<  [QC] comments.  [Chair] asks way forward to address all the multiple PLMN registration issues together, may be in the next meeting. Request a volunteer to take the lead.  [Ericsson] volunteers to take lead to this discussion.  >>CC\_4<< | not pursued |  |
|  |  | 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.  [Huawei]: r2 provided based on comments from Qualcomm and MCC (front page).  [Ericsson] : asks question for understanding  [Huawei] : r3 provided in response to comments from Ericsson  [Ericsson] : r2 is ok, r3 requires further discussion  [Qualcomm] : r2 is ok – don’t agree the removal of EAP message names in r3  [Huawei] : fine with r2, if preferred by the group. | Not pursued |  |
|  |  | 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. | Not pursued |  |
|  |  | 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. | Not pursued |  |
|  |  | S3‑220991 | Discussion on Ua security protocol identifier for PSK TLS 1.3 | Qualcomm Incorporated | discussion |  | noted |  |
|  |  | 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.  [Ericsson] : Clarification asked and propose to note it as is.  [Qualcomm] : Provides response comments and an r1.  >>CC\_4<<  [QC] presents the status.  [Huawei] comments. What is changed in TLS 1.3 is not applicable to TLS 1.2.  >>CC\_4<<  [Ericsson] : withdraw our objection  [Qualcomm] : r2 uploaded to align key names with the rest of clause  [Nokia]: fine with r2 | agreed | R2 |
|  |  | S3‑220993 | Adding a new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | CR | [Ericsson] : Clarification asked and propose to note it as is.  [Huawei] asks for clarifications related to Ericsson objection  [Ericsson] : clarification  [Qualcomm] : provides a response  >>CC\_4<<  >>CC\_4<<  [Ericsson] : withdraw our objection | agreed |  |
|  |  | 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  [Ericsson] : Clarification still needed  [Nokia] : Clarification provided  [Nokia] : Clarification ask for not agreeing the CR  [Ericsson] : Propose not to pursue the CR  [Nokia] : Ask further clarification  [Nokia] : Nokia agree to postpone this | postponed |  |
|  |  | 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. | postponed |  |
|  |  | S3‑220849 | Rel-16 Add clarifications to unicast procedures | Huawei, HiSilicon | CR |  | agreed |  |
|  |  | S3‑220873 | Rel-17 Add clarifications to unicast procedures | Huawei, HiSilicon | CR |  | agreed |  |
|  |  | S3‑220647 | LS on ETSI Plugtest #6 Observation 10.1.11 | Motorola Solutions Danmark A/S | LS out |  | approved |  |
|  |  | S3‑220917 | Updates to 33.434 for CoAP usage | Ericsson | CR |  | agreed |  |
|  |  | S3‑220935 | Editorial correction and clarification to 33.501 | Ericsson | CR |  | agreed |  |
|  |  | S3‑221119 | [SBA] CR to update NF profile for inter-slice access | Samsung | CR | [Ericsson] : The proposed solution is still discussed in the FS\_eSBA\_study, so this CR should be not pursued.  [Samsung]: Provides clarification | not pursued |  |
|  |  | 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.  [Qualcomm] propose to note this CR at this meeting  [Deutsche Telekom] : clarifies on the urgent need of a modernization of the IMS AKA sec algo’s | not pursued |  |
|  |  | S3‑221076 | CR - 33501 - Clarification on Fast re-authentication | Apple | CR | [Nokia] clarification needed.  [Qualcomm] CR not acceptable as proposed  [Ericsson] propose not to pursue (CR not needed)  [Apple] provide clarification to Nokia, QC and Ericsson. | not pursued |  |
|  |  | S3‑221077 | CR - 33501 - Clarification on the NAS COUNT for KeNB derivation | Apple | CR | MCC reminded about the importance of aligning the parameters of reservation with the document. This CR was reserved for Rel-18, but Rel-17 appears on the cover. They also asked to replace “4G” (not a 3GPP term) with “LTE”. The pointed out that the reference to TS 33.401 was missing and that the NOTE was not informative. The NOTE is providing a recommendation (“should be followed”) so it cannot be a note.  [Huawei]: clarification is required before approval.  MCC reminded about the importance of aligning the parameters of reservation with the document. This CR was reserved for Rel-18, but Rel-17 appears on the cover. They also asked to replace “4G” (not a 3GPP term) with “LTE”. The pointed out that the reference to TS 33.401 was missing and that the NOTE was not informative. The NOTE is providing a recommendation (“should be followed”) so it cannot be a note.  [Apple]: provides clarification required by Huawei.  [Qualcomm]: do not agree CR this is needed  [Apple]: request clarification based on QC comments  [Huawei]: proposes to be noted for this meeting. | not pursued |  |
|  |  | S3‑221144 | E1 interface security requirements | VODAFONE | CR |  | agreed |  |
|  |  | 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 | >>CC\_3<<  [Apple] presents in brief.  [QC] doesn’t agree with the conclusion.  [Apple] asks whether there is other objection.  [Apple]: there is much majority supporter (13 companies), while only one objection.  [VF] comments. There are a lot of work in CIoT on same signaling. Why we need more work for that.  [Apple] clarifies the background.  [CableLabs] clarifies to VF.  [NTT Docomo] clarifies to VF.  [VF] is fine with the clarification.  [QC] doesn’t convince with the clarification.  [Chair]: as this is a long pending issue, and only one objection versus many support. It would be marked as working agreement and objection is recorded.  [Huawei] asks whether working agreement could be applied to pCR(conclusion of TR).  [Chair] clarifies that working agreement is on this TR conclusion contribution, not for any other document  >>CC\_3<< | approved with one sustained objection |  |
|  |  | S3‑221073 | 5GFBS - Draft LS to RAN plenary on the conlcusion of solution#17 | Apple | LS out | [Qualcomm]: Propose to note this contribution | noted |  |
|  |  | S3‑221075 | 5GFBS - Security risk in lower layers | Apple | pCR | [Huawei]: proposes to note the contribution.  [Apple]: provide clarification to Huawei.  [Qualcomm]: proposes to note the contribution  [Apple]: provide clarification and request further feedback  [Qualcomm]: provides feedback | noted |  |
|  |  | S3‑220710 | Addressing the editor’s note in 6.27.2.1.1 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR | [Qualcomm]: proposes to note this contribution | noted |  |
|  |  | S3‑220711 | Addressing the editor’s note in 6.27.2.1.7 of sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR | [Ericsson]: asks for clarifications.  [Qualcomm]: proposes to note this contribution | noted |  |
|  |  | S3‑220712 | Addressing the editor’s note in 6.27.2.2.1of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR | [Nokia]: Propose changes.  [Cablelabs]: Provided -r1  [Qualcomm]: proposes to note this contribution | noted |  |
|  |  | S3‑220713 | Addressing the editor’s note #1 in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom | pCR | [Philips] Requires update.  [Deutsche Telekom] : comments on the limitations  [Philips] : comments.  [CableLabs] : provided -r1.  [Deutsche Telekom] : is fine with -r1 | approved | R1 |
|  |  | 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 |  | approved |  |
|  |  | S3‑220715 | Removing incorrect texts in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | approved |  |
|  |  | S3‑220716 | Removing redundant texts in 6.27.2.2.4 of Sol# | CableLabs, Deutsche Telekom, Philips International B.V. | pCR |  | approved |  |
|  |  | S3‑220717 | Removing unrelated texts in 6.27.2.2.4 of Sol#27 | CableLabs, Deutsche Telekom, Philips International B.V. | pCR | [Ericsson]: Asks for clarifications.  [CableLabs]: Provided clarifications.  [Qualcomm]: requests revision (keep the EN) before approval  [Qualcomm]: proposes to note this contribution as our revision request was not accepted | noted |  |
|  |  | S3‑220718 | LS out on authenticity and replay protection of system information | CableLabs, Deutsche Telekom, Philips International B.V. | LS out | [Qualcomm]: proposes to note this contribution | noted |  |
|  |  | S3‑220792 | Update to solution #25 | Huawei, HiSilicon | pCR | [Ericsson]: Proposes to note unless modified.  [Qualcomm]: requests revision before approval  [Huawei]: response to Qualcomm  [Huawei]: Response to Ericsson | noted |  |
|  |  | S3‑220793 | Evaluation of solution #4 | Huawei, HiSilicon | pCR | [Qualcomm]: proposes to note this doc  [Huawei]: response to Qualcomm  [Ericsson] supports this contribution. | noted |  |
|  |  | S3‑220794 | Conclusion for KI#3 | Huawei, HiSilicon | pCR | [Qualcomm]: does not agree with the conclusion and proposes to note this doc | noted |  |
|  |  | S3‑221084 | Detection of MitM attacks with secret paging | Lenovo | pCR | [Ericsson]: Proposes to note.  [Lenovo]: provides clarifications to all points raised by Ericsson.  [Nokia]: Asks clarification.  [Lenovo]: provides clarification to Nokia.  [Qualcomm]: proposes to note this contribution.  [Lenovo]: provides clarifications to Qualcomm’s comments. | noted |  |
|  |  | S3-221266 | Draft TR 33.809-5GFBS | Apple | Draft TR | The draft S3-221266-TR 33.809 was uploaded to the draft folder | Email Approval |  |
| 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 | [Huawei]: proposes to note and evaluate the solution after the resolution of all ENs.  [JHU]: Responds to Huawei. It is not a requirement to resolve all ENs before starting an evaluation.  [JHU] : requests to approve on the basis that there have been no technical objections.  [Huawei] : propose to approve r1 or noted.  >>CC\_wrapup<<  [JHU] comments Huawei’s revision comes very late.  [CableLabs] clarifies.  [IDCC] put for email approval.  [Nokia] is ok to go email approval.  >>CC\_wrapup<< | noted |  |
|  |  | S3‑220866 | Update for solution 5 | Huawei, HiSilicon | pCR | [JHU]: Clarification requested  [Huawei]: Provides clarification.  [JHU]: provides updated EN  [Huawei]: Answer the question.  [JHU] : Sustains our objection to the original EN. Propose to note and continue work at the next meeting.  [Huawei]: Provides r1.  [JHU]: accepts r1. | agreed | R1 |
|  |  | S3‑220898 | Adding evaluation for Sol#6 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: proposes to note since it’s premature to evaluate the solution.  [JHU]: Clarification requested on evaluation  [Nokia]: Answers to questions from JHU  [Nokia]: Asks Huawei to reconsider objection.  [Huawei]: respond to Nokia.  [Nokia]: responds to Huawei.  [JHU]: provides further comments  [BT Plc]: Agree with Nokia. Level of solution detail needed for this SID is not necessarily the same as others in SA3. Therefore, propose to approve latest version or a subsequent revision to address any other wider comments.  [Huawei] : provide further clarifications  [Nokia] : provides answer to Huawei. | noted |  |
|  |  | S3‑220976 | Adding conclusions and recommendations related to KI#13 | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: proposes to note since pertinent solutions are still under discussion.  [Nokia]: disagrees with Huawei’s proposal.  [JHU]: Requests clarification from rapporteur on conclusion vs recommendations  [JHU]: Clarification requested on proposal for normative work  [BT PLC]: responds to JHU.  [Nokia]: Answers to JHU  [Nokia]: Asks question to the group about focus of the study  [Ericsson]: changes for recommendations (r1 {https://www.3gpp.org/ftp/tsg\_sa/WG3\_Security/TSGS3\_107e/Inbox/Drafts/draft\_S3-220976-r1\_Conclusion\_Recommendation\_for\_KI%2313%202.doc} ).  [BT Plc]: Agrees with Nokia.  [BT Plc]: Comments on study scope.  [Nokia]: appreciates and supports Ericsson’s proposal  [JHU]: Asks for confirmation that this conclusion does not preclude recommending other solutions to KI#13 for normative work at a later time  [Huawei]: further clarifications  [Nokia]: takes note of Huawei’s point of view.  [JHU] : objects to -r1 and proposes -r2. | noted |  |
|  |  | S3‑221087 | corrections on measurements flow of solution#5 | Huawei,HiSilicon | pCR | [JHU]: Requires further clarification before it is acceptable  [Huawei]: clarifies and provides r1  [JHU]: Proposes to note.  [Huawei]: requires further clarifications.  [JHU]: provides clarification | ntoed |  |
|  |  | S3‑221115 | KI#27 update - requirements | MITRE Corporation | pCR | [MITRE]: Provides context for this contribution  [Huawei]: Provides r1  [MITRE]: fine with r1. | approved | R1 (S3-221190) |
| 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 | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
|  |  | S3‑220755 | Key issue on authorization in the UE-to-UE relay scenario | ZTE Corporation | pCR | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
|  |  | S3‑220756 | Key issue on Integrity and confidentiality of information over the UE-to-UE Relay | ZTE Corporation | pCR | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
|  |  | S3‑220757 | Key issue on Privacy of information over the UE-to-UE Relay | ZTE Corporation | pCR | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
|  |  | S3‑220758 | Key issue on Support direct communication path switching between PC5 and Uu | ZTE Corporation | pCR | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
|  |  | S3‑221114 | New Key Issue on UE-to-UE Relay Trust Model | OPPO | pCR | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
|  |  | S3‑221116 | New KI: Remote UE Security Establishment via UE-to-UE Relay | OPPO | pCR | [Rapporteur]: This contribution is for R-18 ProSe SID, not in the agenda of SA3#107e, so it is postponed. | postponed |  |
| 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 | [Ericsson] : proposes to note this contribution and focus discussion on the CR S3-220728 | noted |  |
|  |  | S3‑220932 | Update to KI on roaming hub | Nokia, Nokia Shanghai Bell | pCR |  | Noted |  |
|  |  | S3‑220933 | Requirement to KI on roaming hub | Nokia, Nokia Shanghai Bell | pCR | BSI proposes rewording.  [Ericsson] : requires updates (both the original and the proposal by BSI)  [Nokia] : provides update proposal in mail thread.  [BSI] : provides further update proposal in mail thread.  [Nokia] : uploads -r1 with proposed text.  [Ericsson] : provides r2  [BSI] : provides r3  [Ericsson] : r3 is fine  [Huawei] : Generally fine with r3, and provide r4 to rephase the language.  [Ericsson] : r4 requires updates  [Huawei] : provides r5.  [BSI] : agrees with Ericsson  [Ericsson] : provides r6  [Huawei] : fine with r6.  [Nokia] : requests clarification.  [Nokia] : -r7 uploaded. for discussion in SA3 plenary.  [Ericsson] : tries to clarify  [Ericsson] : r7 is fine  [BSI] : r7 is fine | approved | R7 (S3-221287) |
|  |  | S3‑220931 | Trust in SEPP deployment scenarios | Nokia, Nokia Shanghai Bell | pCR | [Ericsson] : requires updates, maybe better to note and study the key issue first, | noted |  |
|  |  | S3‑221136 | New KI for Authentication of PLMNs over IPX | CableLabs | pCR | [Ericsson] : requires updates  [Huawei] : request clarification.  [CableLabs] : provide clarification to Huawei.  [Nokia] : asks for update proposal.  [CableLabs] : provide comments to Nokia.  [Huawei] : provides reply to Tao. | noted |  |
|  |  | S3‑220955 | New KI, NRF validation of NFc for access token requests | Ericsson | pCR | [Deutsche Telekom] : supports the proposed KI and provides -r1  [Ericsson] : proposes to bring the updates in r1 as solution to the next meeting  [Deutsche Telekom] : agrees to the proposed way forward  [Deutsche Telekom] : clarifies that with the provided explanation, the original contribution is agreeable. | approved |  |
|  |  | S3‑221096 | Update of Solution #12 | Huawei, HiSilicon | pCR | [Ericsson] : requires updates  [Huawei] : provides clarification and r1.  [Ericsson] : r1 requires updates  [Huawei] : provides r2 and clarification.  [Ericsson] : requests updates to r2  [Huawei] : provides reply.  [Ericsson] : replies to Huawei  [Huawei] : provides r3 with the EN on the reselection.  [Nokia] : requests EN.  [Ericsson] : r3 is fine  [Huawei] : reply to NOKIA that KI is out scope of this contribution. | approved | R3 |
|  |  | S3‑221097 | Update of Solution #9 | Huawei, HiSilicon | pCR | [Nokia]: Nokia requests revision with additional text as resolution for the EN.  [Ericsson] : requires updates  [Nokia] : requires updates, corrects own proposal  [Huawei] : Existing mechanisms can not be reused to solve this key issue. Please follow the discussion in the 732 thread.  [Nokia] : propose to note. | noted |  |
|  |  | S3‑220730 | Resolution EN authorization method negotiation per KI7-Sol9 | Nokia, Nokia Shanghai Bell | pCR | [Ericsson] : requires updates  [Huawei] : propose to note this contribution. | noted |  |
|  |  | S3‑220732 | New sol. for KI7 on authorization mechanism negotiation | Nokia, Nokia Shanghai Bell | pCR | [Huawei] : propose to note this contribution.  [Nokia] : asks for technial arguments that justify noting the tdoc. Nokia clarifies that this is not a revision but reformulated text. -r1 uploaded, removing the “revision of” in header.  [Huawei] : Reply to NOKIA. | noted |  |
|  |  | S3‑220733 | Conclusion on authorization method negotiation | Nokia, Nokia Shanghai Bell | pCR | [Huawei] : propose to note this contribution.  [Nokia] : Huawei is making wrong assumptions, this is NOT a resubmission. An analysis is provided and it is suggested to conclude with ”no normative work is needed because existing mechanisms can be used”.  [Huawei] : Existing mechanisms can not be reused to solve this key issue. Please follow the discussion in the 732 thread. | noted |  |
|  |  | S3‑220910 | Rapporteur update to TR 33.875 | Nokia | pCR |  | approved |  |
|  |  | S3-221280 | TR 33.875-120 | Nokia | Draft TR |  | Email approval |  |
| 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. | noted |  |
|  |  | S3‑220795 | KI#2 update - threats and requirements | Huawei, HiSilicon | pCR | [Ericsson]: Proposes to note.  [Huawei]: r1 provided in response to Ericsson’s comments.  [Ericsson]: Proposes some changes to r1.  [Huawei]: r2 provided in response to Ericsson.  [Ericsson]: is fine with r2.  [Xiaomi]: provides some comments.  [Huawei]: response to comments. | approved | R3 |
|  |  | S3‑220796 | New solution for part 1 of KI#2 | Huawei, HiSilicon | pCR | [Ericsson]: Proposes to note. | noted |  |
|  |  | S3‑220797 | New solution for part 2 of KI#2 | Huawei, HiSilicon | pCR | [Ericsson]: Proposes to note. | noted |  |
|  |  | S3‑220798 | Conclusion for part 2 of KI#2 | Huawei, HiSilicon | pCR | [Ericsson]: Proposes to note unless modified.  [Huawei]: r1 provided in response to Ericsson’s comments.  [Ericsson]: Is generally fine. Proposes a potential way forward.  [Huawei]: r2 is provided based on way forward proposal from Ericsson.  [Huawei]: created another thread 1164 to discuss the draft LS  [Ericsson]: provides slight changes to the NOTE  [Huawei]: r3 provided as suggested change by Ericsson.  [Ericsson]: is fine with r3.  [Xiaomi]: provides some comments.  [Huawei]: response to comments. | approved | R4 |
|  |  | S3-221164 |  | Huawei, HiSilicon | LS out | [Huawei]: created a draft LS in the Inbox on EAC mode for NSAC  [Ericsson]: provides slight changes to match the proposal in 0798  [Huawei]: r1 provided as suggested change by Ericsson.  [Xiaomi]: provides some inputs.  [Xiaomi]: provides some inputs.  [Ericsson]: agrees with the proposal from Xiaomi.  [Huawei]: response to comments. | approved | R2 |
|  |  | S3-221187 | TR33.874 | Huawei, HiSilicon | Draft TR |  | Email approval |  |
| 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  [QC] Agrees that references and terms are better introduced by the first contribution using them.  [QC] Agrees that references and terms are better introduced by the first contribution using them.  [QC] Agrees that references and terms are better introduced by the first contribution using them.  [QC] Agrees that references and terms are better introduced by the first contribution using them.  [Huawei] clarifies that we do not object to this proposal  [Huawei] clarifies that we do not object to this proposal  [Interdigital] Asks for a clarification on position.  [Interdigital] Asks for a clarification on position.  [QC] Propose to note this document. | noted |  |
|  |  | S3‑220702 | TR 33.870 – Informative Annex A | InterDigital, Inc. | pCR | [Huawei] requires updates before approval  [QC] Prefers addressing PIN in its study item.  [Nokia]: Agrees with QC and Huawei  [QC] Propose to note this document. | noted |  |
|  |  | S3‑220645 | DP on Post-Quantum Secure Subscription Concealed Identifier | Deutsche Telekom AG | discussion | [Huawei] provides views on the proposal  [Deutsche Telekom] : thanks for the hint to the TR 33.841 and asks view for reduced scope  [Interdigital]: No scope reduction is needed.  [Qualcomm]: proposes to note. | noted |  |
|  |  | 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<<  [Apple]: Support this KI.  [Philips]: Supports this KI.  [Qualcomm]: proposes to note | noted |  |
|  |  | 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<<  [Ericsson]: Asks Qualcomm to clarify  [Apple]: supports this KI.  [Qualcomm]: requires changes  [Ericsson]: Clarifies that the KI arises when the SUPIs of type NAI have variable length, -r2 is uploaded  >>CC\_3<<  [IDCC] presents status as rapporteur.  [Mavenir] asks to make working agreement on this key issue.  [Chair] clarifies the principle.  [QC] replies the concern is not solved.  [CableLabs] discusses with [QC].  [Huawei] doesn’t consider it should have working agreement on key issue. It should have consensus.  [Verizon] comments.  [Ericsson] clarifies the concern from QC is considered and revised as r2.  [Mavenir] has same view with Verizon.  [NTT Docomo] comments to consider the issue is existed but it needs well described in order not to cause misunderstanding  [Chair] asks way forward.  [NTT Docomo] provides concrete way forward.  [VF] comments.  [BSI] supports the key issue.  [Huawei] clarifies the problem may not be considered as the issue about 5G system.  [IDCC] comments.  [NTT Docomo] suggests a concrete revision proposal, may need to rewrite with limited scope.  [CableLabs] asks which words give impression that is 5G network issue.  [QC] comments that the key issue shouldnot give an impression that there is a fundamental issue with current SUCI generation mechanism.in 5G. That will not be good for 5G deployment  [QC] provides concrete proposal.  [Chair] asks NTT Docomo to give the concrete wording.  [NTT Docomo] will provide detail through email.  [Chair] requests to NTT Docomo to hold the pen to redraft the text.  [Ericsson] comments.  [Mavenir] doesn’t agree to let NTT Docomo to hold the pen.  [CableLabs]: NTT DoCoMo can make a revision and others can comment.  >>CC\_3<<  [NTT DOCOMO]: -r4 is uploaded  [Ericsson]: Accepts changes in -r4  [Qualcomm]: proposes further changes  [Verizon]: Accepts changes in -r4  [NTT DOCOMO]: -r5 available  [Ericsson]: Accepts -r5  [Interdigital]: Accepts -r5  [Qualcomm]: fine with r5. | approved | R5 |
|  |  | S3‑221078 | IDPrvc - Security issue on C-RNTI | Apple | pCR | [Nokia]: Disagrees with KI.  [Huawei] requests clarifications and updates before approval  [Philips] supports a KI to study privacy issues around RNTIs.  [Interdigital] supports a KI to study privacy issues around RNTIs.  [Apple]: provides clarifications to Huawei’s comments  [QC]: Highlights limited scope of threat. Propose to note.  [Apple]: Provides clarification to comments.  [QC]: Propose to note. | noted |  |
|  |  | S3‑220703 | New key issue on TMGI Privacy | InterDigital, Inc., Convida | pCR | [QC] Prefers addressing this key issue in the MBS study item. Propose to note.  [Huawei] ask for clarification.  [QC] Propose to note this document. | noted |  |
|  |  | S3‑220704 | New key issue on PIN ID Privacy | InterDigital, Inc. | pCR | [Nokia]: Editor’s note proposed for this KI.  [Interdigital]: Proposed EN for this KI would be redundant.  Having a KI on PIN ID privacy will help SA2 in selecting the PIN architecture.  If PIN ID is not a 3GPP identity and/or it is not transported over the air interface, it will be outside of the scope of this study.  [QC] QC notes this key issue should be addressed by the PIN study item. Propose to note.  [QC] Avoid dependencies between SI/WI. New SI/WI’s address their own privacy issues.  MCC commented that they were in favor of avoiding dependencies between studies as this could bring many issues like overlaps or contentious topics that might delay or stop the progress in all dependent work items. On the other hand this wasn’t forbidden, as it can be seen in the WID template, section 2.3.  [Interdigital] Agrees with HW regarding the need for coordination.  [QC] Requests to note this contribution. Make SIs/WIs independent. Move this discussion to PIN SI. | noted |  |
|  |  | 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  [Qualcomm]: proposes to note.  [ZTE] replies to QC and Huawei, and provides r2.  [Interdigital ] is satisfied with r2.  [Qualcomm]: still proposes to note. | noted |  |
|  |  | S3-221290 | TR33.870-020 | Interdigital | Draft TR |  | Email approval |  |
| 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  [Huawei] provides r1  [Ericsson] : r1 is ok | approved | R1 |
|  |  | S3‑220824 | New KI for Security protection of certificate enrolment | Huawei, HiSilicon | pCR | [Ericsson]: The pCR requires updates before approval  [Huawei]: provides r1  [Huawei]: ask for confirmation from Ericsson and Nokia  [Nokia]: provides -r2 to highlight the initial trust procedure in the KI.  [Huawei]: provides –r3 with minor changes.  [Nokia]: ok with -r3  [Ericsson] : provides r4 with a minor revision  [Nokia]: -r4 is OK for Nokia  [Huawei]: r4 is fine | approved | R4 |
|  |  | S3‑220919 | A new key issue for single automated certificate management protocol and procedures | Ericsson | pCR | [Huawei] requires clarifications before approval  [Ericsson] : provides clarification  [Huawei] : response to Ericsson  [Ericsson] : provides -r1  [Ericsson] : kindly reminds to check -r1  [Huawei] : fine with r1 | approved | R1 |
|  |  | S3‑220928 | Key issue on CMPv2 adoption and initial NF trust during certificate enrolment | Nokia, Nokia Shanghai Bell | pCR | [Ericsson] : requires clarification and updates before approval  [Huawei] proposes to merge in S3-220824 since it’s also related to NF certificate enrolment.  [Nokia]: proposes -r1, focused on initial NF trust  [Huawei]: still propose to merge into 0824  [Nokia]: accept the merge into 0824 | merged | S3-220824rx |
|  |  | S3‑220920 | A new key issue for the relation between NF lifecycle and certificate lifecycle | Ericsson | pCR | [Nokia]: provides -r1  [Ericsson]: provides -r2  [Nokia]: agree on -r2  [Huawei] requires changes to the requirement.  [Ericsson] : provides r3 implementing Huawei’s comment  [Huawei] r3 is fine | approved | R3 |
|  |  | 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 | merged | S3-220920rx |
|  |  | S3‑220924 | Update of the introduction and scope of TR 33.876 skeleton | Nokia, Nokia Shanghai Bell | pCR |  | approved |  |
|  |  | 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  [Ericsson]: requires updates before approval  [Nokia]: provides updates (-r2) and clarifications  [Ericsson] : r2 is ok  [Huawei] considers that last requirement irrelevant and solution specific, and hence should be removed for now.  [Nokia]: provides -r3 removing the last requirement  [Ericsson] : r3 is ok  [Huawei] r3 is fine | approved | R3 |
|  |  | 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.  [Ericsson] : requires updates before approval  [Ericsson] : requires one more update before approval  [Xiaomi] : provides r1  [Ericsson] : r1 is ok  [Nokia]: r1 is ok | approved | R1 |
|  |  | 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  [Ericsson]: requires updates before approval  [Nokia]: provides updates (-r2) and clarifications  [Ericsson] : r2 is ok  [Huawei] propose to note this key issue for now  [Nokia]: provide further clarifications and ask for agreeable KI description.  [Nokia]: provides clarifications and ask for a compromise given support from other members.  [Huawei] Requests to rewrite the requirement into a more general one on the framework.  [Nokia]: proposes reformulation of the requirement to compromise  (Captured by VC)[Huawei] is generally fine with minor comment.  [Nokia]: provides -r3  [Ericsson] : r3 is ok | approved | R3 |
|  |  | S3‑220929 | Key issue on Certificates revocation procedures | Nokia, Nokia Shanghai Bell | pCR | [Huawei] requires clarifications and updates before approval  [Nokia]: provides clarification and -r1  [Ericsson] : requires updates before approval  [Huawei] provides further comments on r1  [Nokia]: provide clarifications and a new reviewed version -r2  [Huawei] requires further changes since the key issue details includes relevant solutions and evaluations as well.  [Nokia]: provides -r3, clarifications and asks for proposal and consensus  [Ericsson] : r3 is ok  [Huawei] r3 fine | approved | R3 |
|  |  | S3‑220930 | Key issue on Automated certificate management for Network Slicing | Nokia, Nokia Shanghai Bell | pCR | [Huawei] requires clarifications and updates before approval  [Nokia]: provide clarifications  [Ericsson] : requires updates before approval  [Nokia]: provide -r1  [Ericsson]: provide -r2  [Nokia]: provide -r3 with very minor editorial changes over -r2  [Huawei] Does not agree with the requirement  [Nokia]: asks for clarification  [Ericsson] : ok with r3  [Huawei] Request to replace the requirement with the general text proposed earlier.  [Nokia]: provides -r4  [Huawei] r4 is fine  [Ericsson] : ok with r4 | approved | R4 |
|  |  | S3-221270 | draft TR 33.876 v0.2.0 | Nokia | Draft TR | R1 is provided | Email Approval |  |
| 5.8 | New SID on AKMA phase 2 | S3‑220810 | Skeleton for TR 33.737(AKMA ph2) | China Mobile | draft TR |  | approved |  |
|  |  | S3‑220811 | Scope of TR 33.737 | China Mobile | pCR | [Nokia]: provide r1  [CMCC]: accepts r1. | approved | R1 |
|  |  | S3‑220812 | Architectural Asumptions in TR 33.737 | China Mobile | pCR |  | aproved |  |
|  |  | S3‑220813 | Key issue of AKMA roaming | China Mobile | pCR | [CMCC]: this contribution is merged into S3-220901. | mereged | S3-220901rx |
|  |  | 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  [CMCC]: fine with using 220901 as the baseline.  [Nokia]: merge the contribution and provided r1.  [Qualcomm]: requires changes  [Nokia]: provide a response and ask for confirmation and provide r2  [Nokia]: provide another compromised option  [Ericsson] proposes changes for r2.  [Qualcomm]: responds and previously provided comments still not addressed  [Nokia]: providing r3 based on comments.  [Samsung] Samsung is fine with r3. Requests to add Samsung as co-signer  [Nokia]: providing r4, adding Samsung as co-signer.  [Xiaomi]: is fine with r4.  [CMCC]: is fine with r4.  [Qualcomm]: reqs needs to be removed  [Nokia]: providing r5 as a compromised proposal where removing all requirements and adding FFS  [Qualcomm]: fine with r5.  [Xiaomi]: is ok with r5.  [Ericsson]: is fine with r5. | approved | R5 |
|  |  | 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.  [Xiaomi]: is fine to merge this contribution into S3-220901. | merged | S3-220901rx |
|  |  | S3‑221058 | New key issue on Secure AAnF service request in roaming scenarios of AKMA | Xiaomi Communication | pCR | [CMCC]: requests clarification.  [Nokia]: clarification needed.  [Xiaomi]: provides r1.  [Vlasios]: Propose to note this since there are several questions. | noted |  |
|  |  | S3‑221059 | New key issue on secure architecture for roaming scenarios in AKMA | Xiaomi Communication | pCR | [CMCC]: proposes to note. | noted |  |
|  |  | S3‑221122 | New Key Issue on AKMA Roaming | Samsung | pCR | [CMCC]: requests clarification.  [Samsung] provides clarification  [Qualcomm]: propose to note (or merge into S3-220901)  [CMCC]: propose to merge into S3-220901.  [Samsung] Agree with the merging 1122 to 901 as suggested by CMCC | merged | S3-220901rx |
|  |  | S3‑221123 | New solution on AKMA Roaming | Samsung | pCR | [Ericsson]: Proposes to note for this meeting.  [Samsung] disagrees to note it and provides justification to consider this solution in this meeting cycle as it was already discussed in previous meetings. | noted |  |
|  |  | S3‑221124 | New solution on pushing AKMA context to visited PLMN | Samsung | pCR | [Ericsson]: Proposes to note for this meeting.  [Samsung] disagrees to note it and provides justification to consider this solution in this meeting cycle as it was already discussed in previous meetings. | noted |  |
|  |  | S3‑220814 | Key issue of introducing application proxy into AKMA | China Mobile | pCR | [CMCC]: proposes this contribution as the baseline with S3-220902, S3-221052, S3-221079 merged in.  [Apple]: modification is needed.  [CMCC]: provides r1.  [CMCC]: provides r2 with S3-221054 merged in.  [Apple]: Fine with r2.  [Ericsson]: has some doubts about the requirements.  [Xiaomi]: provides some inputs.  [Nokia]: ask a question for clarification  [Xiaomi]: provides clarification  [CMCC]: provides r3.  [Ericsson]: proposes changes to the requirements.  [CMCC]: provides r4.  [Ericsson]: is fine with r4. | approved | R4 |
|  |  | S3‑220902 | KI on AP function introduction | Nokia, Nokia Shanghai Bell | pCR | [CMCC]: proposes to merge into S3-220814.  [Nokia]: fine with the merging  [CMCC]: proposes to continue discussion under S3-220814. | merged | S3-220814rx |
|  |  | 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 | merged | S3-220814rx |
|  |  | 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.  [Ericsson]: asks for clarifications.  [Xiaomi]: provides clarifications.  [CMCC]: asks for clarifications.  [Xiaomi]: provides clarifications.  [Huawei]: propose to noted.  [Xiaomi]: requests for clarification. | noted |  |
|  |  | 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.  [CMCC]: provides suggestions and asks for revision.  [Xiaomi]: provides r1.  [Qualcomm]: proposes to note.  [CMCC]: suggests to merge into S3-220814.  [Xiaomi]: accepts merge proposal | merged | S3-220814rx |
|  |  | 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  [Xiaomi]: provides clarifications.  [Qualcomm]: proposes to note. | noted |  |
|  |  | 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.  [Qualcomm]: proposes to note. | noted |  |
|  |  | S3‑221079 | AKMA - New key issue of introducing AP to AKMA architecture | Apple | pCR | [CMCC]: proposes to merge into S3-220814.  [Apple]: Fine to merge into S3-220814. | merged | S3-220814rx |
|  |  | S3‑220760 | Discussion paper on AKMA application context removal. | ZTE Corporation | pCR | [Ericsson]: Proposes to note.  [ZTE]: Provides clarifications.  [CMCC]: Proposes to note as this is a DP, also provides suggestions.  [ZTE]: fine to note. | noted |  |
|  |  | S3‑220761 | Discussion paper on AKMA interworking | ZTE Corporation | pCR | [Huawei]: propose the discussion paper is noted  [ZTE]: provides clarification.  [Ericsson]: Proposes to note.  [ZTE]: Provides clarifications. | noted |  |
|  |  | S3‑220762 | New KI on AKMA interworking | ZTE Corporation | pCR | [Huawei]: propose to discuss this contribution in agenda 5.9.  [ZTE]: provides clarification.  [Ericsson]: Proposes to note.  [ZTE]: Provides clarifications.  [Qualcomm]: proposes to note. | noted |  |
|  |  | S3‑220897 | New KI AKMA Kaf refresh | OPPO | pCR | [Nokia]: supports the contribution and proposes to merge with Nokia contribution S3-220903 {https://www.3gpp.org/ftp/TSG\_SA/WG3\_Security/TSGS3\_107e/Docs/S3-220903.zip} at ‘New SID on Home network triggered authentication’ study  [OPPO]: Thanks for Nokia’s support. Further comments  [Ericsson: Proposes to note as this is out of scope of the SID.  [ZTE]: Supports this contribution and suggests to keep this issue in AKMA study.  [Nokia]: Supports this contribution and agrees to keep the KI in both the study as suggested.  [Qualcomm]: proposes to note.  [Nokia]: not agree to note the proposal and provide comments for clarification.  [OPPO]: thanks Nokia and ZTE support. OPPO does not agree to NOTE. | merged | S3-220903rx |
|  |  | S3‑220899 | New solution Security procedure of KAF refresh-MAC | OPPO | pCR | [Ericsson]: Proposes to note.  [OPPO]: provides comment reply to Ericsson. | noted |  |
|  |  | S3‑220900 | New solution Security procedure of KAF refresh-Counter | OPPO | pCR | [Ericsson]: Proposes to note.  [OPPO]: provides comment reply to Ericsson. | noted |  |
|  |  | S3‑220906 | New solution Security procedure of KAF-Nonce | OPPO | pCR | [Ericsson]: Proposes to note.  [OPPO]: provides comment reply to Ericsson. | noted |  |
|  |  | S3-221169 | draft TR33.737 | China Mobile | Draft TR |  | email approval |  |
| 5.9 | New Study of Security aspect of home network triggered primary authentication | S3‑220831 | Skeleton of HNTRA | Huawei, HiSilicon | pCR | >>CC\_3<<  [Huawei] presents a way forword.  [Ericsson] comments about use cases in proposed skeleton, questions whether to evaluate use cases.  [Huawei] clarifies  [Apple] asks whether it is need to add mapping table between use cases and key issue.  [Huawei] clarifies.  [VF] comments the mapping should be embedded into the solution.  [Huawei] clarifies, and confirms VF’s comment could be achieved during study.  [NTT Docomo] asks questions for clarification: use cases has multiple solutions? What will happen if no solution for some use cases?  [Huawei] clarifies.  [Oppo] asks questions. 1: SID usually specifies use cases, do we still need a use cases clause? 2. key issue may not bound to specific use case, how to deal with it?  [Huawei] clarifies.  [VF] comments that usually keep description in key issue, introducing use cases may cause confusion, not prefer to this clause.  [CableLabs] shares similar view with VF.  [Huawei] wants to collect the status about use case clause, if there is no one support this clause then fine to remove it.  [CableLabs] clarifies.  [Ericsson] clarifies use cases should be as background. The study should focus on key issue and solution.  [NTT Docomo] prefers not to have use case clause.  [Thales] has same opinion with NTT Docomo.  [Nokia] is the same view.  >>CC\_3<< | approved |  |
|  |  | S3‑220832 | Scope of HNTRA | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3‑220833 | Adding a usecase of interworking from EPS to 5G | Huawei, HiSilicon | pCR | [Ericsson]: Provides some comments on the use case. | merged | S3-221045rx |
|  |  | S3‑221045 | New Use Case for Security of Interworking | Beijing Xiaomi Mobile Software | pCR | [Huawei]: suggest merging.  [Ericsson]: provides comments, proposes changes.  [Xiaomi]: is fine with the merging proposal  [Xiaomi]: provides responses.  [Xiaomi]: provides r1.  [Huawei]: provides r2.  [Huawei]: ok with r2.  [Xiaomi]: Check if r2 is fine.  [Ericsson]: is fine with r2. | approved | R2 |
|  |  | S3‑220819 | A use case of HONTRA in SoR protection service suspension | LG Electronics France | pCR | [Huawei]: propose to merge this contribution to S3-220892.  [LGE]: Agree with the merger. | merged | S3-220892rx |
|  |  | S3‑220821 | A use case of HONTRA in UPU protection service suspension | LG Electronics France | pCR | [Huawei]: propose to merge this contribution to S3-220892.  [LGE]: Agree with the merger. | merged | S3-220892rx |
|  |  | S3‑221043 | New Use Case for Continuity of Steering of Roaming Service Delivery | Beijing Xiaomi Mobile Software | pCR | [Huawei]: propose to merge this contribution to S3-220892.  [Xiaomi]: is fine with the merging proposal | merged | S3-220892rx |
|  |  | S3‑221044 | New Use Case for Continuity of UE Parameters Update Service Delivery | Beijing Xiaomi Mobile Software | pCR | [Huawei]: propose to merge this contribution to S3-220892.  [Xiaomi]: is fine with the merging proposal | merged | S3-220892rx |
|  |  | S3‑220892 | Adding a usecase of SoR Counter Wrap around | Huawei, HiSilicon | pCR | [ZTE]: requests clarification on this use case.  [Huawei]: provide r1.  [ZTE]: generally fine with r1 and provides r2.  [Xiaomi]: is fine with the merger and ok with R2  [Huawei]: r3 is provided.  [Ericsson]: Clarification for the merger. Companies need to act on the individual merged documents e-mail threads to propose that they are fine with the merger to this contribution. It is easier for the leadership to keep track of the contirbutions in this way.  [Huawei]: Thanks for remindnig. I will send out email that ask for merge later.  [Ericsson]: provides r4 with some editorial and some more text.  [Huawei]: fine with r4 | approved | R4 |
|  |  | S3‑220835 | Adding a usecase of Kakma refresh | Huawei, HiSilicon | pCR | [ZTE]: requires clarification.  [Huawei, HiSilicon]: provides clarification.  [ZTE]: give some explanations.  [Huawei, HiSilicon]: provides clarification.  [ZTE]: Provides more clarifications.  [Huawei, HiSilicon]: provides clarification.  [Ericsson]: Requests for clarifications.  [Huawei]: provides answer and r1.  >>CC\_3<<  [Huawei] presents the status. It is struggling whether this is in scope of this study.  [NTT Docomo]: if use cases clause is gone, it does not need to discuss this. It can be bring as key issue and/or solution directly  [Ericsson] comments it is not about Kakma refresh but Kaf refresh, need to concentrated on that.  [Oppo] has same view with Ericsson.  [CableLabs]: it needs to be revised to key issue.  [Huawei] clairfies if use cases clause is not introduced, it can be converted to key issue.  [ZTE] prefer not to capture this as key issue, needs to keep Kakma refresh in one PLMN scope.  [China Mobile] would like to see key issue directly.  [QC]: could not discuss Kakma refresh only.  [Huawei] replies to ZTE, it should be included in this study rather than AKMA study.  [Ericsson] comments it should be Kausf refresh rather than Kakma refresh, and ask question: should we need to keep it as a specific key issue, to make one key issue with one use case?  [VF] comments.  [QC] replies to Ericsson.  >>CC\_3<<  [Samsung] In favour of adding AKMA refresh based use case in this SID and supports Huawei's view.  [ZTE] withdraw objection and OK to add AKMA use case .  [ZTE] withdraw objection and OK to add AKMA use case .  [Ericsson]: is fine with r1. | approved | R1 |
|  |  | 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.  [Huawei]: Propose to close this thread and move the discussion under the thread of S3-220834. | merged | S3-220834rx |
|  |  | S3‑220822 | A Key issue in UPU protection service suspension | LG Electronics France | pCR | [Huawei]: Propose to merge.  [LGE]: Agree with the merger.  [Huawei]: Propose to close this thread and move the discussion under the thread of S3-220834. | merged | S3-220834rx |
|  |  | S3‑220820 | A Key issue in SoR protection service suspension | LG Electronics France | pCR | [Huawei]: Propose to merge.  [LGE]: Agree with the merger.  [Huawei]: Propose to close this thread and move the discussion under the thread of S3-220834. | merged | S3-220834rx |
|  |  | S3‑221083 | HN-auth-NAS based HN triggered authentication | Apple | pCR | [Samsung] asks for clarification and suggests for a merger with 1126 and 1127  [Ericsson] proposes to note this solution contribution for this meeting in order to focus on the structure of the use cases, key issues. | noted |  |
|  |  | S3‑220834 | KI on Scalability of the home triggered primary authentication | Huawei, HiSilicon | pCR | [Huawei]: Provides r1 in the draft folder.  [Xiaomi]: generally fine with r1 and requires clarification before approval  [Ericsson]: proposes to remove the paragraph about the UDM and the legacy procedure.  [Huawei]: Provides r1 in the draft folder.  [Huawei]: The current version is r2. Sorry for confusion.  [Nokia]: Question asked for clarification.  [Xiaomi]: Fine with R2.  [Ericsson] is not entirely happy with the revision.  [Huawei]: Provide r3 accordingly.  [Ericsson]: is fine with r3. | approved | R3 |
|  |  | 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  [Ericsson] proposes to note the solution contribution for this meeting in order to focus on the structure of the use cases, key issues. | noted |  |
|  |  | S3‑220904 | Key issue on HN triggering primary reauthentication | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: Propose to merge.  [Nokia]: agree for merger.  [Huawei]: Propose to close this thread and move the discussion under the thread of S3-220834. | merged | S3-220834rx |
|  |  | 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  [Ericsson] proposes to note the solution contribution for this meeting in order to focus on the structure of the use cases, key issues. | noted |  |
|  |  | S3‑220905 | Reauthentication during the handover | Intel Corporation (UK) Ltd | pCR | [Huawei]: Propose to merge.  [Huawei]: Propose merge this into S3-220834 | merged | S3-220834rx |
|  |  | S3‑221128 | New solution on UDM triggered key update procecdure based on AAnF request | Samsung | pCR |  | noted |  |
|  |  | S3‑221041 | Key Issue on Refresh of Long Lived Key KAUSF | Beijing Xiaomi Mobile Software | pCR | [Huawei]: Propose to merge.  [Nokia]: clarification needed  [Xiaomi]: provides responses.  [Huawei]: Agree with Nokia’s view: There is no such issue of long-lived Kausf in itself.  [Xiaomi]: is fine with the merging proposal | merged | S3-220834rx |
|  |  | S3‑221129 | New solution on UPU based re-authentication procedure | Samsung | pCR | [ZTE]: provides comments.  [Ericsson] proposes to note the solution contribution for this meeting in order to focus on the structure of the use cases, key issues.  [Samsung] provides clarification | noted |  |
|  |  | S3‑221042 | Key Issue on Security of Interworking | Beijing Xiaomi Mobile Software | pCR | [Huawei]: Propose to merge.  [Xiaomi]: is fine with the merging proposal | merged | S3-220834rx |
|  |  | S3‑221125 | New Key issue on HN initiated Re-authentication | Samsung | pCR | [Huawei]: Propose to merge.  [Samsung] Agree with the merger | merged | S3-220834rx |
|  |  | S3‑220836 | KI on Signalling overhead | Huawei, HiSilicon | pCR | [Huawei]: This contribution is merged into S3-220903. | merged | S3-220903rx |
|  |  | S3‑220903 | Key issue on KAF refresh without primary reauthentication | Nokia, Nokia Shanghai Bell | pCR | [ZTE]: provides comments.  [Xiaomi]: provides comments.  [Huawei]: provides clarification, and agree with the key issue details.  [Nokia]: Thanks for the support, Nokia provides further details and agrees with the merger.  [Huawei]: agree with merge S3-220836 into the S3-220903.  [Nokia]: merged the version and provided r1.  [Huawei]: r2 is uploaded.  [Nokia]: Nokia is fine with the version  [OPPO]: supports this KI.  [Xiaomi]: provides comments and requires clarification before approval  [Ericsson]: propose to remove the threats and requirements for this meeting.  [Qualcomm]: r2 requires changes before it can be approved  [Nokia]: provide clarifications  [Samsung] Supports this KI and fine with r2  [Xiaomi]: requires clarification before approval  [Nokia]: provide clarifications and r3  [Ericsson] does not agree with the requirement. Propose changes.  [Xiaomi]: generally fine with R3  [Nokia]: provide r5 based on the comments  [Huawei]: fine with r5.  [Xiaomi]: fine with R5  [Qualcomm]: OK with R5  [Ericsson]: is fine with r5. | approved | R5 |
|  |  | S3‑221093 | Adding a key issue of Multiple registrations | Huawei,HiSilicon | pCR | [Nokia] clarification needed before approval  [Qualcomm] has the similar question as Nokia  [Huawei] provides clarifications  [Nokia] provides clarifications and proposes to note the contribution if not agreed.  [Huawei] further clarifications  [Nokia] provides clarifications.  [Huawei] further clarifications.  [Nokia] provides clarifications.  [Huawei] provides response.  [Nokia] provides clarifications.  [Huawei] further clarifications.  [Nokia] provides clarifications.  [Ericsson] proposes to note for this meeting.  [Nokia] propose to note the contribution  [Huawei] agree to note the contribution | noted |  |
|  |  | S3-221264 | TR33.741 | Huawei,HiSilicon | Draft TR | R1 | Email Approval |  |
| 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 |  | approved |  |
|  |  | S3‑220772 | Scope of TR 33.738 | China Mobile | pCR |  | approved |  |
|  |  | S3‑220773 | Overview of TR 33.738 | China Mobile | pCR |  | approved |  |
|  |  | 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. | merged | S3-220774rx |
|  |  | 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. | merged | S3-220774rx |
|  |  | 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.  [Interdigital] Provides R2.  [Huawei]: Provides r3 in the draft folder.  [Nokia]: agree on -r2  [China mobile]:provide r4  [Huawei]: R4 is fine. Thanks.  [Nokia]: provide -r5.  [Huawei]: Not fine with r5. R4 is acceptable.  [Nokia]: ask for clarification  [Huawei]: Provides clarification.  [Nokia]: Provides inputs and clarification. Regulation aspects were removed  [Huawei]: Response inline.  [Nokia]: response inline  [China mobile]: request clarification | Approved | R6 |
|  |  | 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.  [China Telecom] : provides r2.  [Ericsson] : fine with -r2. | approved | R2 |
|  |  | 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 | merged | S3-220722rx |
|  |  | S3‑220722 | Key issue on Security for AIML model sharing | Nokia, Nokia Shanghai Bell | pCR | [Interdigital]: Provides comments that highlight why this contribution cannot be accepted as is.  [Nokia]: provides S3-220722 -r1 and clarifications  [Ericsson] : asks for clarification and revision  [Nokia]: provide revision -r2 and clarifications  [Ericsson] : thanks for revision, one more revision,  [Nokia]: provides -r3  [Ericsson] : Ericsson is fine with -r3.  [Huawei]: Provides r4.  [Nokia]: provide -r5 and clarifications  [Huawei]: Not fine with r5. End-to-end is solution specific.  [Nokia]: Provides clarification. End-to-end is not a solution, but just a term and requirement  [Huawei]: Still propose to remove the End-to-end in the security requirement.  [Nokia]: It is OK with -r4 for the sake of compromise | approved | R4 |
|  |  | 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.  [Ericsson] : Propose to note this contribution.  [Nokia]: Provide clarifications  [Ericsson] : Still propose to note this contribution.  [Lenovo] : supports this contribution.  [Nokia]: support the rationale of Lenovo, and provides clarification to Ericsson  [Ericsson] : provides response  [Nokia]: provides response to comply with agreed SID targets.  [Ericsson] : asks for revision, provides updates  [Nokia]: provide -r1  [Ericsson] : fine with -r1  [Lenovo] : fine with -r1  [Huawei]: Request to delete the 5th security threat.  [Nokia]: ask for clarification  [Huawei]: Provides clarification.  [Nokia]: Provides -r2 and clarifications  [Huawei]: fine with r2. | approved | R2 |
|  |  | S3-221279 | draft TR 33.738 | China Mobile | Draft TR |  | Email approval |  |
| 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.  [Huawei] : provide further comments.  [Ericsson] : requires clarification before approval  [ZTE] : provides more clarifications.  [Huawei] : propose to merge with 1060, and take 1060 as the baseline.  [ZTE] : replies to Huawei and considers it is better to separate.  [Ericsson] : provides comments  [ZTE] : fine to note if it has already been studied. | noted |  |
|  |  | S3‑220877 | new KI on Authentication and Authorization when EHE in a VPLMN | Huawei, HiSilicon | pCR | [IDCC] : Question for clarification on S3-220877  [Huawei] : provides answer to IDCC. | noted |  |
|  |  | S3‑220878 | New KI on Security for DNS server IP address | Huawei, HiSilicon | pCR | [Ericsson] : requires clarification before approval  [Huawei] : provide to merge with 1060, and take 1060 as the baseline. | merged | S3-221060rx |
|  |  | S3‑220907 | New KI Edge algorithm selection | OPPO | pCR | [Ericsson] : request clarification and update before approval  [Apple] : Generally support this KI and some modification maybe needed.  [OPPO]: proposes a revision r1 and provides reply.  [OPPO]: thanks Apple for the support and proposes a revision r2.  [Huawei] : provide further comments.  [OPPO]: proposes a revision r3.  [Apple]: fine with r3.  [Ericsson] : requires clarification and update before approval  [OPPO]: proposes a revision r4.  [Ericsson] : r4 looks ok | approved | R4 |
|  |  | 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  [Xiaomi] : provides clarification.  [IDCC] : Not agree with the conclusion.  [Thales]: Needs clarification.  [Xiaomi] : provides r1.  [Xiaomi]: provides r2.  [Huawei] : propose to merge with 0878 and 0763, and take 1060 as the baseline.  [Xiaomi] : is fine with r3.  [IDCC] : Okay with added requirement in r1.  [Xiaomi] : provides some inputs  [Ericsson] : requires clarification and updates before approval  [IDCC] : provides some inputs  [Xiaomi] : provides r5 and clarification.  [IDCC] : Agree to r5.  [Ericsson] : r5 is ok  [Huawei] : fine with r5. Thanks.  [Xiaomi]: provides some inputs.  [Thales]: is fine with r5. | approved | R5 |
|  |  | S3‑220908 | New solution Authentication algorithm selection in EDGE | OPPO | pCR | [Ericsson] : proposes to postpone the contribution to the next meeting  [Huawei] : propose to postpone the solution in the next meeting.  [OPPO] : fine with postponing the solution to the next meeting. | noted |  |
|  |  | S3‑220909 | New solution Authentication algorithm selection among EEC, ECS, and EES | OPPO | pCR | [Huawei] : propose to postpone the solution in the next meeting.  [Ericsson] : propose to postpone  [OPPO] : fine with postponing the solution to the next meeting. | noted |  |
|  |  | S3‑221094 | The Scope of the FS\_EDGE\_Ph2 | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3‑221095 | The Skeleton of the FS\_EDGE\_Ph2 | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3-221235 | Draft TR 33.739 | Huawei, HiSilicon | Draft TR | [Huawei] : Draft TR 33.739 0.1.0 is uploaded in the draftfolder for email approval. | Email Approval |  |
| 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 | [Qualcomm]: Requires modification before SID can be agreed.  [vivo]: provides r1.  MCC commented that in table 2.3 it was necessary to introduce the Unique ID (e.g. a number like 830103), not the acronyms.  [vivo] provides r2  [Nokia] supports SID and appreciates reference to SA2 work; asks for small clarification.  [Thales]: Proposes changes.  [Qualcomm]: Requires modification before SID can be agreed.  [vivo]: provides r3  [CMCC]: Supports the SID  [vivo]: provides r4 adding support company, and appreciate CMCC’s support  >>CC\_4<<  [Vivo] presents status.  [QC] doesn’t see any specific issue. Suggests to limit the scope.  >>CC\_4<<  [vivo]: provides r5  [Qualcomm]: is fine with r5 and would like to be added as co-signer.  [vivo]: provides r6 to add more co-signer and supporting company.  [Thales]: is fine with r6. | agreed | R6 |
|  |  | S3‑220719 | New SID: Study on SNAAPP securitY | NTT DOCOMO INC. | SID new | [Ericsson] : Supports the SID and require clarification and revision.  [Huawei]: Revision is needed.  [Nokia] : shares Ericsson’s point of view and supports SID after clarification / revision.  [Qualcomm]: proposes to keep user consent out of the scope of this SID and keep focus of this SID on authorization of API invocation by the UE  [NTT DOCOMO]: provides -r1  [Ericsson] : ok with r1 and supports the SID  [CableLabs] : Propose to postpone.  [NTT DOCOMO]: SA6 is depending on SA3 in order to make progress. Postponing will lose two meeting cycles.  [CableLabs] : withdraw request for postpone.  [Huawei]: Support this SID and provides r2 with some improvements by aligning with SA6.  [Ericsson] : r2 is also fine  [NTT DOCOMO]: -r3 available adding Ericsson and Huawei in list of supporting companies.  [LGE]: supports this SID  [Samsung]: supports this SID and r3 is fine with us. Please add Samsung in the list of supporting companies.  [Qualcomm]: requests changes to r3  [NTT DOCOMO]: -r4 implements changes requested by Qualcomm and adds LG, Samsung and Qualcomm as supporting companies.  [Qualcomm]: fine with r4.  [Huawei]: fine with r4.  [Nokia]: fine with r4 and supporting study.  [Ericsson] : r4 is fine  [Interdigital] : r4 is satisfactory. Please addInterdigital to the supporting companies. | agreed | R4 |
|  |  | S3‑220764 | Revised SID on AKMA phase2 | ZTE Corporation | SID revised | [Ericsson]: Proposes to note.  [ZTE]: Provides clarifications.  [Qualcomm]: also proposes to note.  [ZTE]: Replys to QC's comments. | noted |  |
|  |  | S3‑220791 | New SID on Study on XR Security | China Mobile | SID new | [Interdigital]: Supports the XR SID and requires to add coordination with privacy study.  [Xiaomi]: Supports the SID  [CableLabs]: Supports the SID  [CMCC] : r1 provided to include co-signing and supporting companies.  [Qualcomm]: proposes to note this SID at this meeting  [Ericsson] : provides comments.  [CMCC]: provide response  [vivo]: Supports the SID  [Ericsson] : provides comments.  [Qualcomm]: requests further info.  [CMCC]: provide response and r2  [Qualcomm]: proposes to note. | noted |  |
|  |  | 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 |  | noted |  |
|  |  | 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.  [Interdigital]: Supports this SID and requires to add coordination with the privacy study.  MCC commented that there was an existing Rel-18 Study on network slicing coming from Rel-17 (it was unfinished): FS\_eNS2\_SEC. Instead of creating this SID, the study FS\_eNS2\_SEC should be revised to incorporate these objectives, given that it couldn’t impact Rel-17 anymore. An alternative would be to stop the Study FS\_eNS2\_SEC and work on this one instead.  [Huawei]: r2 is provided as suggested by Interdigital  [Interdigital]: r2 is satisfactory to Interdigital  [Huawei] responses to MCC.  >>CC\_2<<  [Huawei] presents the status.  [Chair] asks MCC about procedure.  [MCC] comments in thread already. There are 2 options.  [QC] comments, unclear what needs to do study.  [Huawei] clarifies.  [QC]: what does co-ordination mean?  [Huawei] and [IDCC] clarifies.  >>CC\_2<<  [Ericsson] proposes to close the old study.  [Huawei] response to comments from Ericsson.  [ZTE]: Support this SID.  [Qualcomm]: Disagrees with r2 on the inclusion of the objective about co-ordination with the privacy WID  [Interdigital]: Such coordination is needed because the protection of identities over the air interface will be achieved using different solutions while it can be realized in a coordinated manner.  This was already explained and supported by SA3 during the Privacy SID discussion as well as discussed during the #4 SA3 call.  [Huawei]: r3 provided to include ZTE as one of supporting companies.  [Huawei]: clarification on co-ordination with the privacy SID, r3 is provided  [Huawei]: Qualcomm is OK with r3 | agreed | R3 |
|  |  | S3‑220853 | New WID on Security aspects of 5G Isolated operation for public safety (IOPS) | Huawei, HiSilicon | WID new | [Ericsson] : propose to note  [Qualcomm] : also propose to note  [Huawei, HiSilicon]: Reply to the comments.  [Chair]: Correcting the Subject line to correct meeting number for email filters. Please use this thread for further commenting. | noted |  |
|  |  | S3‑220854 | Discussion paper on 5G IOPS | Huawei, HiSilicon | discussion |  | noted |  |
|  |  | S3‑220856 | New SID on security enhancements for 5G multicast-broadcast services Phase 2 | Huawei, HiSilicon | SID new | [Interdigital]: Supports this SID and requires to add coordination with the privacy study.  [Huawei]: provide clarification.  [Qualcomm]: proposes a revision  [Huawei]: provides r1.  [Nokia]: Supports this SID.  [Qualcomm]: is fine with r1  [Ericsson]: r1 ok | agreed | R1 |
|  |  | S3‑220857 | New SID on security enhancements for 5GC LoCation Services Phase 3 | Huawei, HiSilicon | SID new | [Interdigital]: Supports this SID and requires to add coordination with the privacy study in the SID.  [Xiaomi]: Supports the SID  [Ericsson]: Supports the SID  [Huawei]: will update by adding Ericsson, Xiaomi and InterDigital in the supporting list in the revision. Thanks.  [Huawei]: will update by adding Ericsson, Xiaomi and InterDigital in the supporting list in the revision. Thanks.  [Qualcomm]: proposes to note the SID proposal at this meeting.  [Huawei]: Provides clarification. Don’t agree to postpone it again.  >>CC\_4<<  [QC] comments, additional security need is not clear.  [Huawei] replies.  [QC] comments.  [Huawei] replies.  [QC] location security over UP is in place since LTE, what is new and why we need new security procedures is not clear. discusses with [Huawei]  >>CC\_4<<  [Huawei]: Provides r1 to move forward.  [Qualcomm]: still proposes to note for this meeting. Also, object to including the NOTE in the objectives. | noted |  |
|  |  | S3‑220884 | Discussion paper on security enhancements for 5GC LoCation Services Phase 3 | Huawei, HiSilicon | discussion | [Qualcomm]: proposes to note  [Huawei]: Provides clarification. | noted |  |
|  |  | S3‑220867 | New SID on Enhancement of User Consent for 3GPP Services | Huawei, HiSilicon | SID new | MCC provided comments on the title and acronym of the SID.  [OPPO] provides comments and modification request.  [Interdigital] Agrees with OPPO’s comments and modification request wrt. AIML.  [Huawei]: Provides r1 addressing the comments.  [OPPO] accepts r1. | agreed | R1 |
|  |  | S3‑220895 | New SID on Security aspects for 5WWC Phase 2 | Nokia Solutions & Networks (I) | SID new | [Huawei]: Requires modification before SID can be agreed.  [Nokia]: Provide revision r1 as requested, except TNAP mobility- see below justification  [Huawei]: Requires modification before SID can be agreed.  MCC commented on the acronym and parent work item.  [Nokia]: providing clarification and asking for confirmation  [Huawei]:provide feedback.  [Qualcomm]: raises a concern with the proposed SID  [Lenovo]: Answers to Qualcomm.  [CableLabs]: Uploaded r2 with an EN on the last objective.  [Nokia]: fine with r2 and provided draft LS on another email.  [Nokia]: providing r3 to capture MCC comment on correcting the SID acronym, parent SID/WID and added supporting companies  [Qualcomm]: Changes needs changes to r3 before the WID is acceptable  [Nokia]: providing r4 based on comments  [Huawei]:fine with r4.  [Qualcomm]: r4 is OK | agreed | R4 |
|  |  | S3‑220896 | Discussion on Security aspects for 5WWC Phase 2 | Nokia Solutions & Networks (I) | SID new |  | noted |  |
|  |  | S3-221165 | LS on TNAP mobility security aspect | Nokia | LS out | [Nokia]: As discussed and agreed in another thread, proposing a draft LS on TNAP mobility security aspect  [Nokia]: providing r1 based on feedback from companies  [Qualcomm]: Proposes some changes to the LS  [Nokia]: providing r2 based on feedback  [Qualcomm]: r2 is OK from LS text perspective but a couple of process changes needed  [Nokia]: providing the link for the LS with the new LS number  [Lenovo]: Draft\_S3-221165-r1 is fine.  [Nokia]: Nokia providing the draft LS agreed on another email thread  [Qualcomm]: OK with r1 | approved | R1 |
|  |  | 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 | >>CC\_4<<  [Ericsson] presents.  [QC] is ok with the SID now, no longer object.  >>CC\_4<< | agreed |  |
|  |  | S3‑220957 | Skeleton for proposed FS\_eNPN\_Ph2\_SEC | Ericsson | other |  | approved |  |
|  |  | S3‑220975 | Discussion for Study on Zero Trust Security | Lenovo | discussion |  | noted |  |
|  |  | 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 | [Huawei] objects to the proposal in its current form  [Qualcomm]: SID requires changes before it is acceptable  [Lenovo]: Provides clarifications and uploaded r1.  >>CC\_4<<  [Lenovo] presents status and updates with email discussion.  [Huawei] will provide minor improvement, but still confuse with the NOTE, suggests to tick ME impact as NO directly. It is a preferrable way. But it could be OK as a note.  [QC] comments to tick ME impact as NO.  [Lenovo] clarifies.  [QC] insists to tick NO.  [IDCC] supports Lenovo’s approach.  [QC] does not agree to kick as don’t know.  [Huawei] comments.  [QC] objects if the box is as don’t know for ME impact.  [IDCC] replies.  [CableLabs] comments on tick box.  [NTT Docomo] supports to mark as ‘don’t know’.  [Chair] there are 27 supporting company, while 2 sustained objection. It will be marked as conditionally agreed.  >>CC\_4<<  [Huawei] in general fine with the way forward and proposes minor improvements and alignments in r2  [Lenovo] Provides r3 which takes care most of the suggested changes from r2.  Prefers to keep the objective stable.  [Lenovo] Found minor editorial inconsistency in the title added in the ‘Title section’ and ‘expected Output & Time scale table’.  R4 is uploaded to fix the editorial error.  [Huawei] fine with r4 | agreed with sustained objection | R4 |
|  |  | S3‑220987 | New WID on Study on security of architecture enhancement for UAV and UAM | Qualcomm Incorporated | SID new | [Huawei] : provides comments.  [Ericsson] : provides comments.  MCC commented that this Study should be aligned w.r.t terminology with the work in other working groups. The title and acronym should coincide at least with SA2’s work and previous SA3’s work.  [Qualcomm] : provides an r1 to try to address the raised comments.  [Ericsson] : provides r2 with minor changes and a new proposal for the timeline  [Qualcomm] : provides r3 with original date but kept other changes  [Ericsson] : r3 is ok and we support the SID  >>CC\_wrapup<<  [IDCC] supports the SID  [CMCC] supports the SID  [Nokia] supports the SID  >>CC\_wrapup<< | approved. | R3 |
|  |  | S3‑221021 | Draft skeleton of TR 33.740 | CATT | draft TR |  | approved |  |
|  |  | 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 | [Qualcomm]: proposes to revise. If accepted, we support this new SID.  [Xiaomi]: provides comment and proposal before revision  [Qualcomm]: stays our position (cannot accept NOTE 2)  [Xiaomi]: provides r1 and adds Qualcomm as a supporting company  [Interdigital]: Insists on including either the appropriate text stating dependency with Privacy SI in Clause 2.3 or the proposed note.  Ranging SI may end up proposing the exchange of identities over the air interface and these identities may leak privacy. Because of that, privacy of such identities is within the purview of the existing Privacy SI. The expressed QC desire not to recognize such dependency is not explained.  >>CC\_4<<  [Xiaomi] presents status and update, currently it is r3  [Chair] asks the status in other WG  [Xiaomi]: there are a good progress in other WG  [Apple] supports the study. NOTE2 is not critical.  >>CC\_4<<  [Nokia]: Supports this study proposal.  [Interdigital]: provides comments and r2  [Apple]: support R2.  [Xiaomi]: provides comments and r2  [Xiaomi]: provides r3 with new supporting companies  (Captured by VC)[IDCC] agree with the Xiaomi’s suggestion.  [CableLabs]: support this SID.  [Xiaomi]: provides r4 with a new supporting company  [Huawei]: supports r4. | agreed | R4 |
|  |  | S3‑221024 | New SID on Security Aspects of Satellite Access | Xiaomi, China Mobile, China Telecom | SID new | [Huawei]: fix the subject and resend this email.  [Xiaomi]: provides clarification and revision  [Interdigital]: Supports the SID and requires to add coordination with existing privacy study.  [Qualcomm]: Qualcomm this SID. However, we object to including text about coordination with privacy SID; Each R18 SID shall stand on its own and we shall not create never ending web of dependencies among SIDs.  [Qualcomm]: Qualcomm supports this SID. However, we object to including text about coordination with privacy SID; Each R18 SID shall stand on its own and we shall not create never ending web of dependencies among SIDs.  [Xiaomi]: provides response and r2 with new supporting companies  [ZTE]: Support this SID.  [Xiaomi]: uploads r2  [Xiaomi]: provides response and r3 with a new supporting company  [Nokia]: Supports this study.  [Xiaomi]: provides r4 with two new supporting companies  [Huawei]: Provides r5 without any change on the objective part.  [Ericsson]: Proposes to postpone the SID for this time.  [Xiaomi]: fine with r5, and requests Ericsson to reconsider  [Ericsson]: proposes to note for this meeting. | noted |  |
|  |  | 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 | [Huawei]: Update and clarification are requested before it is acceptable.  [OPPO]: supports this SID and requests to be added as a supporting/cosigning company.  MCC proposed an change of acronym to align with other WG’s work on the same topic.  [Huawei]: ask for clarification.  [QC]: Prefer having only one SID for AI/ML.  [Ericsson] provides r1 and clarifications.  [Nokia]: Nokia supports this study.  >>CC\_4<<  [Ericsson] presents status and update  [Huawei] r2 is provided. Should be align with RAN3 as much as possible.  >>CC\_4<<  [Ericsson] provides r1 and clarifications.  [Ericsson] provides r1 and clarifications.  [Huawei]: provides r2.  [Ericsson] provides clarifications.  [QC]: Propose to note for this meeting. Still prefer to merge AI/ML studies.  [Ericsson] provides comments, asks for clarifications. | approved | R2 |
|  |  | S3‑221065 | New WID on IETF OSCORE Ua\* protocol profile for AKMA | Ericsson | WID new | [ZTE]: Ask for clarification.  [Ericsson]: Provides clarifications.  [Thales]: require changes.  [Ericsson]: requests for clarifications.  [ZTE]: Thanks for clarification and ZTE would like to bring another WID to specify the use of DTLS as another IoT Ua\* protocol for AKMA if necessary.  [CMCC]: supports the WID.  [Nokia]: supports the WID.  [Thales]: Provides further comments  [Huawei]:clarification is needed.  [CMCC]: provides clarifications.  [Ericsson] provides clarification.  [CMCC]: provides feedback.  [IDEMIA]: require changes to target both AKMA and GBA.  [Huawei]: minutes correction, the previous minute is sent by Huawei.  [Ericsson]: proposes a clarifications.  [Huawei]:we support GBA+OSCORE could be another WID.  [Thales]: Thales objects the WID as long as GBA is not in the scope.  [Ericsson]: provides clarifications.  [Thales]: answers to Ericsson’s question. | noted |  |
|  |  | S3‑221066 | IETF OSCORE as AKMA Ua\* protocol | Ericsson, DT | CR | [Thales]: propose to postpone the discussion.  [Samsung] Requires updates before CR can be agreed.  [Xiaomi]: requires revision  [Huawei]:propose to noted for this meeting.  [Ericsson] provides clarifications.  [Ericsson] proposes not to pursue this document as WID is not agreed. | not pursued |  |
|  |  | S3‑221067 | Extending the Ua security protocol namespace to include the AKMA OSCORE Ua\* protocol | Ericsson, DT | CR | [Thales]: propose to postpone the CR.  [Huawei]: ask for clarification.  [Ericsson]: Provides clarifications.  [Ericsson] proposes not to pursue. | not pursued |  |
|  |  | S3‑221068 | 5G registration via trusted non-3GPP access after NSWO authentication | Lenovo | discussion | [Qualcomm]: proposes note.  [Nokia]: agree on the issue is valid  [Ericsson]: As we proposed in the thread for the SID proposal S3-221069 we propose to also note this discussion paper. | noted |  |
|  |  | S3‑221069 | New Study to enable 5G registration via trusted non-3GPP access after NSWO Authentication (FS\_5GRTN3) | Lenovo | SID new | [Ericsson] Proposes to note this proposal.  [Lenovo] provides clarification to Ericsson.  MCC suggested to change the acronym to align with previous work on NSWO. The SA3 work in Rel-17 should also be added to the table in 2.3.  [Lenovo] provides clarification that it is not related to NSWO  [Qualcomm]: proposes to note  [Ericsson]: Provides answer to Lenovo.  [Nokia]: Provide Nokia view and support to study in SA3 (either CR or new study)  [Lenovo]: Provides clarification  [AT&T]: proposes to note.  [CableLasbs]: support this SID.  [Lenovo]: agrees that the SID is an SA3 topic. | noted |  |
|  |  | S3‑221070 | Study to enable URSP rules to securely identify applications | Lenovo | discussion | [Interdigital]: Asked questions for clarification and requested comments.  [Lenovo]: clarification provided in thread 1071.  [Ericsson] : since this is only the discussion paper, proposal to respectfully note it | noted |  |
|  |  | 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 | [Interdigital]: Asked questions for clarification and requested comments.  [Lenovo]: provides the requested clarification.  [Ericsson] : asks for further clarification  [Lenovo]: provides the requested clarification.  [Lenovo]: provides the requested clarification.  >>CC\_4<<  [Lenovo] presents briefly  [IDCC] comments for clarification  [Huawei] questions for clarification.  [Lenovo] clarifies.  [NTT Docomo] comments, unclear what it tries to do.  >>CC\_4<< | agreed |  |
|  |  | 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 | MCC noted that the Study item was to be considered the Parent work item in table 2.2. They also asked to remove “RAN specs TBA” from table 5 given that this had to be addressed in a different work item in RAN.  MCC commented that the term “editor’s note” was wrong as this is used only in the drafting of specifications, it should be an additional objective. MCC asked if this “any other conclusions” referred to RRCREsumeRequest. If not, this could be considered too generic as it doesn’t specify what is going to be taken exactly from TR 33.809.  [Qualcomm] WID needs revision before it can be accepted  [Apple] Provide R1 addressing MCC and QC’s comments.  [Samsung] Clarification needed before it can be accepted  [Ericsson] Clarification needed before it can be accepted  [Apple] provides clarification to Samsung  [Samsung] provides r2  >>CC\_4<<  [Chair] asks whether it is based on existed study or a new one.  [Apple] comfirms that is based on existed study.  [QC] comments.  [MCC] asks if this is a normative work or new study.  [Chair] it is a normative work, but QC comments is that could not be considered as a FBS issue but the signaling issue which was one aspect studied in FBS. So title should change..  [CableLabs] comments QC’s concern is on title, asks whether there is concrete proposal.  [QC] proposes a way forward.  [Apple] r1 has the same title as QC requested.  >>CC\_4<<  [Apple] fine with r2.  [Apple] Provides r3 based on the discussion in Thursday conf call.  [ZTE]: Support this WID.  [Huawei] supports r3.  [Apple] provides r4 adding ZTE as one supporting company, no other changes.  [Ericsson] is fine with r4.  [Samsung] is fine with r4.  [Qualcomm] r4 needs some corrections  [Apple] Provides r5 including Qualcomm’s suggestions.  [Qualcomm] r5 is OK  [Ericsson] is fine with r5 | agreed | R5 |
|  |  | S3‑221085 | Discussion on security aspects of NGRTC | Huawei,HiSilicon, Deutsche Telekom | discussion |  | noted |  |
|  |  | S3‑221086 | New SID on NGRTC | Huawei,HiSilicon | SID new | [Ericsson] Asks for clarifications.  [Huawei] responds to Ericsson.  [Ericsson] responds to Huawei.  [Huawei] responds to Ericsson and provides r1.  MCC suggested to align the acronym with SA2 terminology: FS\_NG\_RTC\_SEC  [Qualcomm] provide comments to r1  [Huawei] provides r2 according to comments from QC and MCC .  [Nokia] We don't have an objection to the study but want to postpone it for the next meeting till SA2 will make some progress.  [Huawei] disagree with Nokia’s comments on SA2 progress since SA2 has 4 clear key issues with more than 15 solutions and waiting for SA3’s involvement.  [Nokia] we dont have objection with the study  [Ericsson] Ericsson is fine with r2.  [Huawei] thanks for Nokia’s reconsideration  [Qualcomm] OK with r2 | agreed | R2 |
|  |  | 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 | [Ericsson] : supports this SID and asks for clarification  [QC]: Prefer having only one SID for AI/ML.  [Huawei]: ask for clarfication.  [OPPO]: provides clarification to Huawei, Qualcomm, and Ericsson. R1 is uploaded with additional supporting company.  [Huawei]: Don’t agree on merging this SID proposal with security of AI/ML for RAN SID proposal. They should be separate.  [Nokia]: Don’t agree on merging this SID proposal with the security of AI/ML for RAN SID proposal. They should be separate.  [Philips] shares the views of Nokia, Huawei, Oppo and other companies. This SID proposal should not be merged with the security of AI/ML for RAN SID proposal.  [Xiaomi]: supports this SID and prefers to make it separate from 1062  [OPPO]: provides r2 with additional supporting companies.  [OPPO]: provides r3 with additional supporting company.  [QC]: Propose to note for this meeting. Still prefer to merge AI/ML studies.  [OPPO] provides comments.  >>CC\_wrapup<<  [Oppo] there is no technical objection but just merging request, asks to approve this.  [QC] clarifies the objection.  [Nokia] doesn’t agree to merge and replies.  [Ericsson] clarifies there are different scope of study, so not to merge.  [Oppo] comments  [CableLabs] clarifies.  [Chair] majority prefers not to merge and needs to study, asks QC whether it is ok to accept this as independent SID.  [QC] still has concern.  [Nokia] asks to start core network work at first, and see whether others needs to be merged into.  [CMCC] prefers not to merge.  [IDCC] comments.  [Chair] requests to agree this with objection  [QC] does not agree  [Chair] the objection will be recorded, both RAN and CN AI/ML SIDs are approved  >>CC\_wrapup<< | agreed |  |
|  |  | S3‑221117 | Need for Rel-18 study on UP security enhancement | Samsung, CableLabs, Interdigital | discussion |  | noted |  |
|  |  | S3‑221118 | New SID on 5G User plane security enhancements | Samsung | SID new | [Ericsson] : provides comments and propose to note  [Samsung]: disagrees with the comment from Ericsson and provides clarification.  [Qualcomm]: does not agree with the proposed SID  [Samsung]: disagrees with the comment from Qualcomm.  [Nokia]: Supports this study proposal.  >>CC\_4<<  [Samsung] presents.  [NTT Docomo] still has concern, proposes not to study.  [Ericsson] also has concern, proposes not to study.  [CableLabs] doesn’t consider it will cause complexity.  [Nokia] proposes to make study so can evaluate solution properly, supports this study proposal.  [Chair] asks whether any changes to text can be suggested so that it can go forward to NTT Docomo and Ericsson.  [QC] comments, full rate UPIP is agreed, do not agree to have another study.  [China Mobile] supports the study.  [Chair] asks whether it can go forward with any changes, since we are seeing the SID proposal in multiple meetings..  [NTT Docomo] replies it is need to see whether there is a deployment issue from the filed and what can be done before study, is still not convinced.  [Samsung] replies, problems on performance on full rate UPIP always is clear. Also new services maynot need UPIP on a PDU session basis.  [CableLabs] clarifies.  [QC] comments.  [DT] comments for clarification.  [Samsung] clarifies.  [Oppo] doesn’t support. There is major secuirty impact on UE side.  >>CC\_4<<  [Deutsche Telekom] : asks further clarification | noted |  |
|  |  | S3‑221121 | New SID on security aspects of control plane based remote provisioning in Non-Public Networks | Samsung | SID new | [Interdigital]: Supports this SID.  [Thales]: disagrees with the proposed SID and propose to note it.  [IDEMIA] : propose to note this contribution  [Telecom Italia]: disagrees with the proposed SID and propose to note it.  [Samsung]: appreciates the support from Interdigital.  [Samsung]: disagrees with the comment from Thales.  [Samsung]: disagrees with the comment from Idemia and provides clarification.  [Qualcomm]: also disagrees with the SID and proposes to note it.  [Philips]: Provides comments to the objecting companies.  [CMCC]: supports the SID.  [interdigital]: supports the notion that SA3 should not rely or expect security requirements from SA2.  [Huawei]: supports this SID.  [Samsung]: appreciates the support from Huawei and provides r1 adding Huawei and InterDigital in the list of supporting companies.  [Telecom Italia]: Reply to Philips’s comment. Telecom Italia confirms its disagreement on this proposed SID and propose to note it.  [Philips]: Replies to Telecom Italia. | noted |  |
| 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.  [Chair] : Is it possible to mention the specific dates/weeks to be considered for avoiding,  [Ericsson] : provides specific weeks to be considered for avoiding  >>CC\_wrapup<<  [Chair] presents status and asks whether SA3#108 should beone week or two weeks.  [QC] one week  [Ericsson] one week  [CableLabs] one week  [Huawei] one week  ---Public Holiday discussion---  [Huawei] proposes to ask TSG meeting plan, as TSG is the main body to take charge about TSG meeting.  ---Agenda for next meeting  [Huawei] asks agenda scope for next meeting.  [Chair] clarifies.mostly studies, any pending issues like ProSe will be considered and confirmed later.  [Nokia] comment on objection timeline.towards the end of the meeting, Objection in the final deadlines could not be solved.  [Chair] clarifies the staggered deadlines for progressively working together on comments.  >>CC\_wrapup<< | noted |  |