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| **Agenda** | **Topic** | **TDoc** | **Title** | **Source** | **Type** | **Notes** | **Decision** | **Replaced-by** |
| 1 | Agenda and Meeting Objectives | S3‑221710 | Agenda | SA WG3 Chair | agenda | >>CC\_1<<  Chair proposes approved after 1st challenge deadline  >>CC\_1<< | approved |  |
|  |  | S3‑221712 | Report from SA3#107e ad-Hoc | SA WG3 Chair | other | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221713 | Process for SA3#108e | SA WG3 Chair | other | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221716 | Process and agenda planning for SA3#108e | SA WG3 Chair | other | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
| 2 | Meeting Reports | S3‑221711 | Report from SA3#107e | MCC | report | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221714 | Report from last SA | SA WG3 Chair | report | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221715 | Meeting notes from SA3 leadership | MCC | report |  | reserved |  |
| 3 | Reports and Liaisons from other Groups | S3‑221745 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | other | >>CC\_1<<  [Interdigital] presents  >>CC\_1<< | noted |  |
|  |  | S3‑221718 | Reply LS on EPS fallback enhancements | C1-223535 | LS in | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221719 | LS on user’s consent for EDGEAPP | C3-223780 | LS in | >>CC\_1<<  VC presents  >>CC\_1<< | replier to | 964 |
|  |  | S3‑221964 | [DRAFT] Reply LS on user’s consent for EDGEAPP | Ericsson | LS out | >>CC\_1<<  [Ericsson] presents status.  [VF] SA6 has lastest LS, should be taken into consideration.  Chair asks Ericsson to hold the pen and lead the discussion as Huawei has no reply the call.  >>CC\_1<<  [Ericsson]: provides r1 considering the progress in SA6  [Apple]: Not Ok with r1. Provides concrete text.  [Qualcomm]: Asks for clarification  [Ericsson]: provides clarification and r2  >>CC\_3<<  [Ericsson] presents current status.  >>CC\_3<<  [Huawei]: ask for clarification on r2.  [Ericsson]: provides clarification  [Huawei]: ask for clarification and provide way forward.  [Apple]: Fine with Huawei’s proposal on the answer to Q2 and provides slight modification.  [Ericsson]: provides r4  [Apple]: not OK with R4, provides r5  [Ericsson]: r5 cannot be acceptable. Propose to send r4.  [Huawei]: fine with r5.  [Ericsson]: provides more comments. r5 is not ok. Supports r4.  [Apple]: provides r6.  [Ericsson]: r6 is not ok, supports r4.  [Qualcomm]: r6 is ok.  [Ericsson]: comments on the disagreement point | available |  |
|  |  | S3‑222089 | Reply LS on User Consent for EDGEAPP | Huawei, HiSilicon | LS out | >>CC\_1<<  >>CC\_1<<  [Ericsson] : proposes to merge this contribution into 221964 and continue the discussion in 221964 email thread | merged | 964 |
|  |  | S3‑221976 | LS reply to 3GPP on Alignment of EDGEAPP and ETSI MEC | ETSI ISG MEC | LS in | >>CC\_1<<  VC presents.  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221734 | LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-221953 | LS in | >>CC\_1<<  [CMCC] presents  >>CC\_1<< | postpone |  |
|  |  | S3‑222038 | draft-Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | Intel | LS out | >>CC\_1<<  [Intel] presents.  [KPN] comments, needs to discuss further through email.  [Intel] replies.  [CMCC] is general agreed with Intel, and ok to discuss further as KPN suggested.  Chair request to Intel to hold pen on reply LS, have further discussion on content.  >>CC\_1<<  [Nokia]: agrees with the proposal from Intel.  [KPN:] Objects against this reply LS.  [Ericsson] : Comments  [Intel]: uploads r1  [CMCC]: supports r1.  [Nokia]: supports -r1  [Apple]: supports r1.  [Huawei] : Support r1.  [KPN:] Asks for elaboration.  [Ericsson]: comments  [Ericsson]: proposes to postpone  >>CC\_3<<  [Intel] presents current status.  >>CC\_3<<  [Intel]: provides comments to TNO and Ericsson  [Nokia]: suggest to go ahead with the LS reply  [Ericsson]: proposes to spend more time instead of a quick reply  [Nokia]: provides comments  [KPN]: proposes to postpone or the elaborate on the reasons for SA3’s reluctance to SA6’s approach. | postpone |  |
|  |  | S3‑221720 | LS on CT specification on Control Plane based security procedures for 5G ProSe UE-to-Network Relay | CP-221322 | LS in | >>CC\_1<<  Chair proposes to continue discussion  >>CC\_1<< | noted |  |
|  |  | S3‑221735 | Reply LS on 5G ProSe security open items | SP-220716 | LS in | >>CC\_1<<  VC presents  >>CC\_1<< | replied to | 758 |
|  |  | S3‑221732 | LS on 5G ProSe security open items | S2-2204904 | LS in | >>CC\_1<<  VC presents  [Interdigital] asks to open draft reply LS 1758  >>CC\_1<< | replier to | 758 |
|  |  | S3‑221721 | LS to 3GPP on user plane security | GSMA | LS in | >>CC\_1<<  [Nokia] presents  >>CC\_1<< | replier to  noted? | 131 |
|  |  | S3‑222132 | UP IP security | China Mobile | CR | [Nokia]: proposes to merge with S3-221789 and focus on improving TS 33.501 to cover N9 protection accordingly.  [CMCC]: Agree to merge.  [Nokia]: thread is closed, discussion continues in S3-221789 | merged | 789 |
|  |  | S3‑222131 | LS reply on User plane security | China Mobile | LS out | [Nokia]: proposes to merge with S3-221788 and focus on improving TS 33.501 to cover N9 protection accordingly.  >>CC\_1<<  [CMCC] volunteer to hold the pen.  Chair is ok to let CMCC to hold the pen and request to keep everyone inline.  >>CC\_1<<  [Nokia]: accepts that China Mobile answers the LS as discussed in the conference call, and adds some observations to be considered.  >>CC\_3<<  [Nokia] presents current status. >>CC\_3<<  [CMCC]: Uploaded r1  [Nokia]: ok with -r1. Just a minor editorial change that needs to be corrected.  [CMCC]: Uploaded r2  [Ericsson] : postponed, | approved | R2 |
|  |  | S3‑221788 | LS reply on user plane security | Nokia, Nokia Shanghai Bell | LS out |  | merged | 131 |
|  |  | S3‑221722 | LS on 3GPP TS 29.244 | BBF | LS in | [Ericsson]: the LS can be noted, since SA3 is only in cc and there is no action to SA3 | noted |  |
|  |  | S3‑221723 | East/West Bound Interface for Telco Edge consideration | GSMA | LS in | >>CC\_1<<  [Nokia] presents.  >>CC\_1<< | replier to | 790 |
|  |  | S3‑221790 | LS reply on East/West Bound Interface for Telco Edge consideration | Nokia, Nokia Shanghai Bell | LS out | [Ericsson] : Propose minor update before approval  [Huawei] ask for clarifications  [Nokia]: provides clarifications  [Nokia]: provides -r1  [Ericsson]: fine with r1 | approved | R1 |
|  |  | S3‑221724 | LS on UE’s LTE UPIP capability for EN-DC | R3-223915 | LS in | [Huawei] Propose to reply and use 2063 as the baseline.  >>CC\_1<<  VC presents.  >>CC\_1<<  [Qualcomm]: fine with the proposal and also suggests to use 2063 as the baseline. | replied | 063 |
|  |  | S3‑222063 | Reply LS on UE’s LTE UPIP capability for EN-DC | Huawei, HiSilicon | LS out | >>CC\_1<<  Move to AI#3  Chair asks Huawei to hold the pen and set 2063 as baseline.  >>CC\_1<<  >>CC\_3<<  [Huawei] presents current status. >>CC\_3<<  [Huawei] provide r1 | approved | R1 |
|  |  | S3‑221914 | Reply LS on UE’s LTE UPIP capability for EN-DC | Ericsson | LS out | [Huawei] Propose to merge in 2063, move the discussion there and close this thread.  [Ericsson] We are fine with merging LS reply in S3-221914 into 2063, and close this thread.  >>CC\_1<<  Move to AI#3  >>CC\_1<< | merged | 063 |
|  |  | S3‑221725 | Reply LS on User Consent Updating | R3-224076 | LS in | >>CC\_1<<  VC presents  [Huawei] proposes to noted  Chair proposes noted after 1st challenge deadline  [Ericsson] proposes to noted  >>CC\_1<< | noted |  |
|  |  | S3‑221726 | Reply LS on UE capabilities indication in UPU | S2-2204722 | LS in | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221727 | LS on Joint CC for support of LI at HO for S8 Home routing | S2-2204731 | LS in | >>CC\_1<<  Chair proposes noted after 1st challenge deadline  >>CC\_1<< | noted |  |
|  |  | S3‑221728 | Reply LS on the impact of MSK update on MBS multicast session update procedure | S2-2204741 | LS in | >>CC\_1<<  VC presents  Chair asks whether there is draft reply  [Huawei] can draft a reply in this meeting but related CR may be made in next meeting  Chair asks Huawei to hold the pen.  >>CC\_1<<  [Huawei]: Provides r1.  >>CC\_3<<  [Huawei] presents current status.  >>CC\_3<<  [Nokia]: commenting on the r1  [Huawei]: propose to move forwards with r1.  [Ericsson]: r1 is OK to be sent out, but here are some comments for it  [Huawei]: continue the discussion for CRs next meeting. | approved(Nokia check) | R1 |
|  |  | S3‑221729 | Reply LS on Clarifications on Nmbstf\_MBSDistributionSession service | S2-2204742 | LS in | >>CC\_1<<  Chair proposes to continue discussion  >>CC\_1<<  [Huawei]: Propose to note the contribution. | noted |  |
|  |  | S3‑221730 | LS OUT on Indication of Network Assisted Positioning method | S2-2204744 | LS in | >>CC\_1<<  [QC] presents and proposes to noted .  [Huawei] agrees with QC and just simply noted.  Chair proposes noted after 1st challenge deadline  >>CC\_1<<  [Nokia] Propose to note the LS  [Huawei] agree with Nokia to note the LS.  [Qualcomm] also agree to note the LS. | noted |  |
|  |  | S3‑221731 | LS OUT on alignment of non-seamless NSW handling | S2-2204752 | LS in | >>CC\_1<<  [Nokia] presents.  >>CC\_1<<  [Nokia] Propose to note the LS  [Nokia] Propose to send the LS reply and we have prepared the LS reply “S3-221778 {https://www.3gpp.org/ftp/TSG\_SA/WG3\_Security/TSGS3\_108e/Docs/S3-221778.zip} ” | noted |  |
|  |  | S3‑221736 | LS on X.5Gsec-vs (X.1813): Security requirements for the operation of vertical services supporting ultra- reliable and low latency communication (URLLC) in the IMT-2020 private networks | ITU-T Study Group 17 | LS in | >>CC\_1<<  VC presents  >>CC\_1<< | noted |  |
|  |  | S3‑221739 | LS on consent of ITU-T Q.3062 (ex Q.Pro-Trust) and ITU-T Q.3063 (ex Q.CIDA) | ITU-T SG11 | LS in | >>CC\_1<<  VC presents  >>CC\_1<< | noted |  |
|  |  | S3‑221740 | Facilitating roaming adoption across 3GPP NPN deployments | WBA OpenRoaming Technical Standards Task Group | LS in | >>CC\_1<<  [Intel] presents  [Nokia] comments there is no issue, the key point is whether open-roaming architecture should be considered in 3gpp.  [Intel] agrees there is no issue  [VF] comment. Don’t understand the changes on the background.  [Cisco] comments  [Ericsson] comments further clarification are needed, doesn’t understand the issue.  [VF] asks clarification question to Cisco  [Huawei] comments to keep it open.  [Cisco] clarifies.  >>CC\_1<< | postponed |  |
|  |  | S3‑222040 | draft-Reply LS on Facilitating roaming adoption across 3GPP NPN deployments | Intel | LS out | >>CC\_1<<  [Intel] presents  >>CC\_1<<  [Ericsson]: requires updates  [Qualcomm]: proposes to note.  >>CC\_3<<  [Intel] presents current status and propose to postpone based on comments. >>CC\_3<< | postponed |  |
|  |  | S3‑221738 | LS on authentication type and related information of MSGin5G service | C1-223957 | LS in |  | withdrawn |  |
|  |  | S3‑221789 | User plane security for Non-SBA based interfaces | Nokia, Nokia Shanghai Bell | CR | >>CC\_3<<  [Nokia] presents status and would like to collect feedback about the new NOTE added.  [NTT Docomo] comments about using of DTLS VF deployments  [CableLabs] comments  [Huawei] clarifies.  [CableLabs] asks why to remove NDS/IP  [Nokia] clarifies.  [DT] prefers to keep the NOTE.  >>CC\_3<<  [Ericsson] : proposes some changes and request to see merged version.  [Nokia]: asks for more feedback about the NOTE of the CR.  [NTT DOCOMO]: proposes alternative solution  [Nokia]: provides comments and proposes to continue with the original approach  [Huawei] propose comments  [Deutsche Telekom] comments on the proposal and wants to keep the Note  [Ericsson] : suggest to continue with our proposal.  [Nokia]: provides -r1 and comments to the feedback received so far.  [Huawei] fine with r1  [Deutsche Telekom] : agrees to -r1  [Ericsson] : not ok with the note and propose postpone this CR  [Nokia]: responds to Ericsson proposal and calls for consensus by providing -r2  [Ericsson] : propose postpone this CR, need more time to discuss internally  [Deutsche Telekom] : objects to -r2  [NTT DOCOMO]: also supports postponing, as wording is still difficult.  [Nokia]: accepts to postpone the CR, provides comments and ask for clarifications. | not pursued |  |
|  |  | S3-222259 | Reply LS on PLMN ID used in Roaming Scenarios | C4-224444 | LS in | >>CC\_4<<  [Nokia] presents and proposes a draft reply LS.  [Ericsson] comments the time is limited to check the CR and proposes to postpone to Nov. Meeting. >>CC\_4<< | postponed |  |
| 4 | Work areas (Rel-18) |  |  |  |  |  |  |  |
| 4.1 | New WID on Security Assurance Specification for Management Function (MnF) | S3‑221937 | TS33.526 MnF threats | Huawei, Hisilicon | pCR | [Ericsson]:revision needed.  [Huawei] clarify this is intended to the MnF annex in the living document  [Nokia] provide comments and ask question for discussion  [Huawei] provide r1 and replies to Nokia.  [Nokia] Provide r2.  [Ericsson] r2 is ok.  [Huawei] fine with r2 | approved | R2 |
|  |  | S3‑221938 | TS33.526 Mnf\_test cases | Huawei, Hisilicon | pCR | [Ericsson]: changes needed  [Nokia]: ask questions  [Huawei] provide r1 and replies to Nokia and Ericsson.  [Nokia] Provide further comments.  [Ericsson] Proposed to note the document. | noted |  |
|  |  | S3‑222114 | Update clause 4.2.3 | Huawei, HiSilicon | pCR | [Nokia]: ask question  [Huawei] provide clarifications | approved |  |
|  |  | S3‑222115 | Update clause 4.2.4 | Huawei, HiSilicon | pCR | [Ericsson]: more info needed  [Ericsson]: need clarification  [Nokia]: need clarification  [Huawei] provide r1 and clarifications  [Nokia] Provide further comments.  [Ericsson]: Proposed to note the document. | noted |  |
|  |  | S3‑222116 | Update clause 4.2.5, and 4.2.6 | Huawei, HiSilicon | pCR | [Ericsson]: changes needed  [Ericsson]: need clarification  [Nokia]: Provide comments  [Huawei] provide r1 and clarifications  [Nokia] Provide further comments.  [Huawei] provide r2  [Nokia] r2 is fine. | approved | R2 |
|  |  | S3‑222117 | Add new content for clause 4.3 | Huawei, HiSilicon | pCR | [Ericsson]: changes needed  [Huawei] propose to withdraw this document | withdrawn |  |
|  |  | S3‑222118 | Add new content for clause 4.4 | Huawei, HiSilicon | pCR |  | approved |  |
|  |  | S3‑222119 | Living document for MnF SCAS | Huawei, HiSilicon | draftCR |  | email approval | R1 |
|  |  | S3‑222122 | add a new requirement and test case | Huawei, HiSilicon | pCR | [Ericsson]: changes needed  [Nokia]: Provide comments  [Huawei] propose to note this one | noted |  |
|  |  | S3-22wxyz | New draft TS 33.526 MnF SCAS | Huawei, HiSilicon | draft TS |  | Email approval |  |
| 4.2 | New WID on SECAM and SCAS for 3GPP virtualized network products | S3‑222144 | Adding overview of SECAM for 3GPP virtualized networ products into clause 4 in TR 33.936 | China Mobile | pCR | [Ericsson]: question  [CMCC] provides clarification.  [Ericsson]: comment  [CMCC] provides further clarification.  [Huawei]: requires revision before approval.  [CMCC] provides clarification and revision proposal  [CMCC] provides r1 based on proposal.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222145 | Adding Scope of SECAM for 3GPP virtualized network products of type 1 into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] provides clarification and revision proposal  [CMCC] provides r1 based on proposal.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222146 | Adding Scope of SECAM for 3GPP virtualized network products of type 2 into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222147 | Adding Scope of SECAM for 3GPP virtualized network products of type 3 into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222148 | Adding Scope of SECAM evaluation for type 1 of 3GPP virtualized network products into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] provides r1 based on comment.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222149 | Adding Scope of SECAM evaluation for type 2 of 3GPP virtualized network products into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222150 | Adding Scope of SECAM evaluation for type 3 of 3GPP virtualized network products into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222151 | Adding Scope of SECAM accreditation for type 1 of 3GPP virtualized network products into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] clarifies and provides r1.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222152 | Adding Scope of SECAM accreditation for type 2 of 3GPP virtualized network products into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222153 | Adding Scope of SECAM accreditation for type 3 of 3GPP virtualized network products into clause 4 in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222154 | Adding contents of chapters 4.5 about type 1 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] clarifies and provides r1  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222155 | Adding contents of chapters 4.5 about type 2 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222156 | Adding contents of chapters 4.5 about type 3 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222157 | Adding contents of chapters 4.6 for type 1 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: ask for clarification.  [CMCC] provides clarification  [Huawei]: fine with r1.  [Huawei]: fine with clarification. | approved |  |
|  |  | S3‑222158 | Adding contents of chapters 4.6 for type 2 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222159 | Adding contents of chapters 4.6 for type 3 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222160 | Adding contents of chapters 4.7 for type 1 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] clarifies and provide r1.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222161 | Adding contents of chapters 4.7 for type 2 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222162 | Adding contents of chapters 4.7 for type 3 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222163 | Adding contents of chapters 4.8 for type 1 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: ask for clarification.  [CMCC] provides r1 based on comment.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222164 | Adding contents of chapters 4.8 for type 2 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222165 | Adding contents of chapters 4.8 for type 3 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222166 | Adding contents of chapters 4.9 for type 1 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR |  | approved |  |
|  |  | S3‑222167 | Adding contents of chapters 4.9 for type 2 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222168 | Adding contents of chapters 4.9 for type 3 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222169 | Adding contents of chapters 4.10 for type 1 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR |  | approved |  |
|  |  | S3‑222170 | Adding contents of chapters 4.10 for type 2 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type2, propose to delete the related part. | noted |  |
|  |  | S3‑222171 | Adding contents of chapters 4.10 for type 3 of 3GPP virtualized network product in TR 33.936 | China Mobile | pCR | [Huawei]: not fine with type3, propose to delete the related part. | noted |  |
|  |  | S3‑222172 | Adding content to clause 5.1 in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] provides clarification and r1.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222173 | Adding description about general content of SCAS document and ToE to clause 5.2 in TR 33.936 | China Mobile | pCR | [Huawei]: Requires revision before approval.  [CMCC] clarifies and provides r1  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222174 | Adding description about SPD to clause 5.2 in TR33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] asks for clarification and provides r1.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222175 | Adding description about methodology of security requirements to clause 5.2 in TR 33.936 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] provides r1  [Huawei]: propose r2.  [CMCC] is fine with r2 | approved | R2 |
|  |  | S3‑222176 | Adding description about improvement of SCAS and new potential security requirements to clause 5.3 in TR 33.936 | China Mobile | pCR |  | approved |  |
|  |  | S3‑222177 | Adding description about basic vulnerability testing requirements for GVNP to clause 5.4 in TR 33.936 | China Mobile | pCR | [Huawei]: request to postpone.  [Huawei]: withdrawn postpone. We are fine with this contribution. | approved |  |
|  |  | S3‑222178 | Proposal to add overview in clause 4 Generic Virtulizated Network Product (GVNP) class for type 1 in TR 33.927 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] provides clarification and r1.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222179 | Proposal to add overview in clause 4 Generic Virtulizated Network Product (GVNP) class for type 2 in TR 33.927 | China Mobile | pCR | [Huawei]: propose noted. | noted |  |
|  |  | S3‑222180 | Proposal to add overview in clause 4 Generic Virtulizated Network Product (GVNP) class for type 3 in TR 33.927 | China Mobile | pCR | [Huawei]: propose noted. | noted |  |
|  |  | S3‑222181 | Proposal to add clause 4.2 Minimum set of functions defining the GVNP class in TR 33.927 | China Mobile | pCR |  | approved |  |
|  |  | S3‑222182 | Proposal to add introduction in clause 4.3 Generic virtualized network product model for type 1 in TR33.927 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] provides r1  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222183 | Proposal to add introduction in clause 4.3 Generic virtualized network product model for type 2 in TR33.927 | China Mobile | pCR | [Huawei]: propose noted. | noted |  |
|  |  | S3‑222184 | Proposal to add introduction in clause 4.3 Generic virtualized network product model for type 3 in TR33.927 | China Mobile | pCR | [Huawei]: propose noted. | noted |  |
|  |  | S3‑222185 | Proposal to add GVNP model of type 1 in TR 33.927 | China Mobile | pCR | [Huawei]: Revision is needed.  [CMCC] clarifies and provides r1.  [Huawei]: fine with r1. | approved | R1 |
|  |  | S3‑222186 | Proposal to add GVNP model of type 2 in TR 33.927 | China Mobile | pCR | [Huawei]: propose noted. | noted |  |
|  |  | S3‑222187 | Proposal to add GVNP model of type 3 in TR 33.927 | China Mobile | pCR | [Huawei]: propose noted. | noted |  |
| 4.3 | New WID on Mission critical security enhancements phase 3 | S3‑221750 | [33.180] R18 MC client clarification | Motorola Solutions Danmark A/S | CR | [Nokia]: proposes to handle the issue of the CR in a more “elegant” way.  [MSI]: Revision 1 available.  [Ericsson]: provides comments  [Nokia]: provides comments  [MSI]: agrees with Samsung and Nokia, -r2 available.  [Nokia]: agrees with -r2.  [Ericsson]: provides r3  [Ericsson]: clarifies the position, r2 and previous versions are not ok, provides r3  [Nokia]: fine with r2 and r3. | available |  |
| 4.4 | New WID on Security Assurance Specification (SCAS) for 5G Rel-17 Features | S3‑221753 | New test case to cover the AAnF provisioning | Keysight Technologies UK Ltd | CR |  | withdrawn |  |
|  |  | S3‑221875 | Add a test case in TS 33.216 | ZTE Corporation | draftCR | [Ericsson]: proposes to note the contribution  [ZTE]: provide clarification.  [Huawei]: revision is needed  [ZTE]: Provide R1.  [Ericsson]: Proposed to note the document. | noted |  |
|  |  | S3‑221939 | new threat for KAUSF handling | Huawei,HiSilicon | draftCR | [Ericsson]: Proposed to note the document.  [Huawei]: disagree with the arguments and ask Ericsson for re-consideration.  [Ericsson]: Question asked. Proposed to note the document.  [Huawei]: replies to Ericsson. | noted |  |
|  |  | S3‑221940 | token verification modification to include SNPN snenario | Huawei,HiSilicon | draftCR | [Ericsson]: Propose to note the document.  [Huawei]: responds to Ericsson.  [Ericsson]: Let’s wait stage 3. Proposed to be noted. | noted |  |
|  |  | S3‑221941 | PLMNID verification modification to include SNPN scenario | Huawei,HiSilicon | draftCR | [Ericsson]: Proposed to note the document.  [Huawei]: responds to Ericsson | noted |  |
|  |  | S3‑222098 | supporting UP IP at eNB | Huawei, HiSilicon | draftCR | [Nokia]: proposes minor update before approval  [Huawei]: provide r1  [Nokia]: -r1 is OK  [Ericsson]: r1 is OK | approved | R1 |
|  |  | S3‑222099 | UP IP policy selection-R18 | Huawei, HiSilicon | draftCR | [Nokia]: proposes minor update before approval  [Huawei]: provide r1  [Nokia]: -r1 is OK | approved | R1 |
|  |  | S3‑222100 | locally UP IP supporting at eNB | Huawei, HiSilicon | draftCR | [Nokia]: proposes minor update before approval  [Huawei]: provide r1  [Nokia]: -r1 is ok  [Ericsson]: r1 is OK | approved | R1 |
|  |  | S3‑222102 | draft CR to 33.926 on locally UP IP supporting at eNB | Huawei, HiSilicon | draftCR | [Ericsson]: clarification question.  [Huawei]: provide r1  [Ericsson]: r1 looks ok. | approved | R1 |
|  |  | S3‑222103 | draft CR to 33.926 on UP IP policy selection at eNB | Huawei, HiSilicon | draftCR | [Ericsson]: Proposed to note the document.  [Huawei]: reply and kindly request to reconsider the position, and provide r1  [Ericsson]:r1 is ok. | approved | R1 |
|  |  | S3‑222104 | Living document to TR 33.926 for SCAS 5G Ph2 | Huawei, HiSilicon | draftCR |  | email approval | R1 |
|  |  | S3‑222105 | update testcase in clause 4.2.3.2.4 | Huawei, HiSilicon | draftCR |  | approved |  |
|  |  | S3‑222106 | Update requirement and add new test case to clause 4.2.3.4.3.1 | Huawei, HiSilicon | draftCR | [Ericsson]: Proposed to note the document.  [Huawei]: fine to noted | noted |  |
|  |  | S3‑222107 | Update requirement and add new test case to clause 4.2.3.4.3.2 | Huawei, HiSilicon | draftCR | [Ericsson]: Proposed to note the document.  [Huawei]: fine to noted | noted |  |
|  |  | S3-22xxxx | Living document to TS 33.216 | Huawei, HiSilicon | Draft TS |  | Email approval |  |
| 4.5 | New WID on Security Assurance Specification for the Authentication and Key Management for Applications (AKMA) Anchor Function Function (AAnF) | S3‑221752 | New group of test cases deriving from TS 33.117 for SCAS AAnF | Keysight Technologies UK Ltd | pCR | [CMCC]: Proposes to remove the text of clause 4.2.4, 4.2.5 and 4.2.6.  [Keysight]: Provides draft\_S3-221753-r1 with suggested modification  [CMCC]: fine with r1.  [Keysight]: Uploaded new tdoc for r1. New tdoc is S3-222260 | approved | R1 |
|  |  | S3‑221876 | Adding AAnF critical assets to TS 33.926 | ZTE Corporation | draftCR | [Ericsson]: Proposes changes.  [ZTE]: Fine with the changes.  [Nokia]: Proposes changes.  [ZTE]: Provide R1.  [Nokia]: Nokia is fine with the version  [Ericsson]: is fine with r1. | approved | R1 |
|  |  | S3‑221877 | Adding AKMA subscription asynchronization threats to TS 33.926 | ZTE Corporation | draftCR | [Ericsson]: requests for clarifications.  [ZTE]: Provide clarification.  [Ericsson]: provides clarifications.  [ZTE]: Provide R1.  [Ericsson]: proposes to note. | noted |  |
|  |  | S3‑221878 | Security Assurance Requirement and Test for AKMA subscription synchronization in the AAnF | ZTE Corporation | pCR | [Ericsson]: requests for clarifications.  [ZTE]: Provide clarification.  [Ericsson]: provides clarifications.  [ZTE]: Provide R1.  [Ericsson]: proposes to note. | noted |  |
|  |  | S3‑222108 | AAnF authorized the AF | Huawei, HiSilicon | pCR | [Ericsson]: proposes to note. The test is functionality test for the SBA local policy/static authorization. | noted |  |
|  |  | S3‑222109 | NEF authorized the AF | Huawei, HiSilicon | pCR | [Ericsson]: proposes to note. The test is functionality test for the NEF local policy/static authorization. | noted |  |
|  |  | S3‑222110 | AAnF replies error response | Huawei, HiSilicon | pCR | [Ericsson]: asks for clarifications.  [Huawei]:replies.  [Ericsson]: Proposes to note.  (Captured by VC) [Huawei] is fine to note, and all others. One email for all. | notd |  |
|  |  | S3‑222111 | draft CR to 33.926 on AAnF authorizes the AF | Huawei, HiSilicon | draftCR | [Ericsson]: Proposes to note. | noted |  |
|  |  | S3‑222112 | draft CR to 33.926 on NEF authorizes the AF | Huawei, HiSilicon | draftCR | [Ericsson]: Proposes to note.  [Ericsson]: proposes to note | noted |  |
|  |  | S3‑222113 | draft CR to 33.926 on error response | Huawei, HiSilicon | draftCR | [Ericsson]: asks for clarifications.  [Ericsson]: proposes to note | noted |  |
|  |  | S3‑222134 | Introduction of AAnF-specific security requirements and related test cases | China Mobile | pCR |  | approved |  |
|  |  | S3‑222135 | General description of clause 4.2.2 | China Mobile | pCR |  | approved |  |
|  |  | S3‑222136 | Adding AAnF critical assets and threats to TS 33.926 | China Mobile | draftCR | [Ericsson]: requests for clarifications.  [CMCC]: provides clarifications.  [Ericsson]: Provides some clarification.  [CMCC]: Provides r1.  [Ericsson]: provides further clarifications.  [CMCC]: provides r2.  [Ericsson]: proposes to note.  [CMCC]: fine to be noted for this meeting. | noted |  |
|  |  | S3‑222137 | Adding a test case of AKMA key strorage and update | China Mobile | pCR | [Ericsson]: requests for clarifications.  [CMCC]: provides clarifications.  [Ericsson]: Provides some clarification.  [CMCC]: Provides r1.  [Ericsson]: provides further clarifications.  [CMCC]: provides r2.  [Ericsson]: proposes to note.  [CMCC]: fine to be noted for this meeting. | noted |  |
|  |  | S3‑222138 | Adding technical baseline text | China Mobile | pCR |  | approved |  |
|  |  | S3‑222139 | Adding text to clause 4.2.4 | China Mobile | pCR | [Keysight]: Propose to merge with S3-221752  [CMCC]: Proposes to keep as a separate document.  [Keysight]: Agree to keep as separate document | approved |  |
|  |  | S3‑222140 | Adding text to clause 4.2.5 | China Mobile | pCR | [Keysight]: Propose to merge with S3-221752  [CMCC]: Proposes to keep as a separate document.  [Keysight]: Agree to keep as separate document | approved |  |
|  |  | S3‑222141 | Adding text to clause 4.2.6 | China Mobile | pCR | [CMCC]: Corrects the subject line. Proposes to keep as a separate document. | approved |  |
|  |  | S3‑222142 | Living document for AAnF SCAS – draftCR to TR 33.926 | China Mobile | draftCR |  | email approval | R1 |
|  |  | S3‑221754 | New test case to cover the AAnF provisioning | Keysight Technologies UK Ltd | CR | >>CC\_1<<  Move to AI#AAnf-scas  >>CC\_1<<  MCC pointed out some corrections on the cover page and in the text.  Keysight: Provides solution in r1  Chair: This Tdoc was submitted wrongly to 4.9, belongs to agenda 4.5 SCAS for AAnF, it has been moved over 4.5, please discuss over 4.5.  Keysight: This test case affects AUSF  [Huawei]: propose to discuss in AI 4.4  [Chair]: Thanks for the clarification, Please discuss in AI 4.4 along with other AUSF tests.  [Huawei]: propose to discuss in AI 4.4  [Keysight]: Accept to discuss in AI 4.4 as a draftCR  [Keysight]: Uploaded as DraftCR as we agreed. New tdoc: S3-222261  [Ericsson]: Proposed to note the document (#1754 and #2261).  [Keysight]: Replies | not pursued |  |
| 4.6 | New WID on SCAS for split-gNB product classes | S3‑221813 | Discussion paper on draft CR to TR 33.926 for split gNB | Qualcomm Incorporated | discussion | [Nokia]: objects | available |  |
|  |  | S3‑221814 | Introducing split gNBs into TR 33.926 | Qualcomm Incorporated | draftCR | [Nokia]: objects  [Deutsche Telekom] : supports the contribution | available |  |
|  |  | S3‑221815 | Proposed text for gNB-CU part of draft CR to TR 33.926 | Qualcomm Incorporated | other | [Huawei]: typo needs to be fixed.  [Nokia]: difficult to agree, because of security architecture inconsistencies, and partly wrong assumptions  [Nokia]: objects to the currently proposed SCAS gNB-CU split, Nokia proposes a new way forward  [Qualcomm]: provide r1 to address comments  [Qualcomm]: provides response to Nokia  [Deutsche Telekom] : agrees to -r1 and supports moving forward with the work as agreed in the WI  [Huawei]: r2 is uploaded with minor change, i.e. changing “CU” to “gNB-CU”  [Qualcomm]: OK with r2  [Notes]: objected, revision r2 still includes wrong assumptions and there is still the relation to classic gNB missing | available |  |
|  |  | S3‑221816 | Proposed text for gNB-CU-CP part of draft CR to TR 33.926 | Qualcomm Incorporated | other | [Huawei]: ask for clarification and revision.  [Nokia]: difficult to agree, because of security architecture inconsistencies, and partly wrong assumptions  [Nokia]: objects to the currently proposed SCAS gNB-CU split, Nokia proposes a new way forward  [Qualcomm]: provides response and an r2  [Deutsche Telekom] : agrees to -r2 and supports moving forward with the work as agreed in the WI  [Huawei]: ok with r2 | available |  |
|  |  | S3‑221817 | Proposed text for gNB-CU-UP part of draft CR to TR 33.926 | Qualcomm Incorporated | other | [Huawei]: Revision is required.  [Qualcomm]: r1 uploaded  [Huawei]: r1 is OK. | available |  |
|  |  | S3‑221818 | Proposed text for gNB-DU part of draft CR to TR 33.926 | Qualcomm Incorporated | other | [Huawei]: Revision is required before approval.  [Qualcomm]: r1 uploaded  [Huawei]: provides r2.  [Qualcomm]: OK with r2 | available |  |
|  |  | S3‑221819 | Discussion paper on 33.501 test cases for TS 33.742 SCAS for split gNB | Qualcomm Incorporated | discussion |  | available |  |
|  |  | S3‑221820 | Proposed text for gNB-CU test cases from TS 33.501 for TS 33.742 | Qualcomm Incorporated | pCR | [Huawei]: Revision is required before approval.  [Qualcomm]: r1 is uploaded  [Huawei]: ok with r1. | available |  |
|  |  | S3‑221821 | Proposed text for gNB-CU-CP test cases from TS 33.501 for TS 33.742 | Qualcomm Incorporated | pCR | [Huawei]: Revision is required before it is acceptable.  [Qualcomm]: r1 is uploaded  [Huawei]: provide r2 with minor change.  [Qualcomm]: OK with r2 | available |  |
|  |  | S3‑221822 | Proposed text for gNB-CU-UP test cases from TS 33.501 for TS 33.742 | Qualcomm Incorporated | pCR | [Huawei]: Revision is needed.  [Qualcomm]: r1 is uploaded  [Huawei]: ok with r1. | available |  |
|  |  | S3‑221823 | Proposed text for gNB-DU test cases from TS 33.501 for TS 33.742 | Qualcomm Incorporated | pCR | [Huawei]: Revision and clarification is needed.  [Qualcomm]: r1 is uploaded  [Huawei]: ok with r1. | available |  |
|  |  | S3‑221824 | Proposed corrections for TS 33.742 | Qualcomm Incorporated | pCR |  | available |  |
| 4.7 | Service Based Architecture (Rel-15/16/17) | S3‑221771 | Discussion on authorization issue in inter NF mobility | Nokia, Nokia Shanghai Bell | discussion | >>CC\_1<<  [Nokia] presents.  >>CC\_1<<  [Mavenir]: As usual, this is a discussion paper to be noted but Mavenir still ask few clarifications as they are applicable .  [Nokia]: Nokia provides clarification  [Mavenir]: provides answers and comments and maintain position  [Nokia]: provides clarification and proposes a way forward.  [Mavenir]: Thanks for the understanding and the proposal. Mavenir still believes nothing is required for this to work as intended  [Nokia]: ask for clarification  [Ericsson]: replies to Nokia  [Mavenir]: provides answer  [Nokia]: provide clarification with detailed procedure  [Mavenir]: Maybe we can bring this back next meeting. Thanks. | noted |  |
|  |  | S3‑221772 | Clarification on authorization for inter NF mobility | Nokia, Nokia Shanghai Bell | CR | >>CC\_1<<  [Nokia] presents.  [Ericsson] comments, proposes to understand the issue in this meeting and solve it in next meeting.  [Nokia] clarifies  >>CC\_1<<  [Mavenir]: propose that this CR is to be noted  [Nokia]: Provide clarification on this discussion paper and don't agree to note the contribution  [Mavenir]: agrees to hold this until discussion on S3-221771 is finalized.  [Ericsson]: proposes to not pursue this CR at this meeting | noted |  |
|  |  | S3‑221881 | Verification of NSSAIs for preventing slice attack | ZTE Corporation | draftCR | [Ericsson]: not agreeable in its current form  [ZTE]: Note it and discuss in 1786 thread | noted |  |
|  |  | S3‑221786 | Verification of NSSAIs for preventing slice attack | CableLabs, Ericsson,Nokia, Nokia Shanghai Bell | CR | >>CC\_1<<  [Nokia] presents status.  [ZTE] will provide comments via email.  [Huawei] comments there are 2 pending issues, asks whether there is relation with study work.  [CableLabs] clarifies.  [Huawei] comments there are two releases.  [Huawei] it is not good to maintanence. The issue is for R18 but the CR for R17.  [Ericsson] clarifies.  [CableLabs] clarifies  [Mavenir] comments  [Nokia] clarifies the motivation about this CR, from CVD, not too much relation with study.  [CableLabs] clarifies it is agreed as a draftCR and this is a transform.  [Nokia] asks to clarify the rule for draftCR  Chair clarifies draftCR need to be submitted as a CR to be approved..  >>CC\_1<<  MCC pointed out that there was a missing mirror for this CR.  [Mavenir]: Before agreeing to this CR, Mavenir has comments and require answers/clarifications  [Huawei] : Request clarification on the Releases, and the overlapping with the eSBA SID.  [ZTE]: Provide comments.  [Huawei] : reply to ZTE.  [Cablelabsi] : uploaded -r1 to address comments from MCC on the cover sheet. This CR is directly converted from a draft-CR that was approved twice: S3-220468 in SA3#106e and S3-221131 in SA3#107e. Based on the notes from Mirko in CC#1, if a draft-CR was approved, its content have already been agreed. Therefore, the contents of this CR should be agreed and are not subject to objection.  [Mavenir]: does not believe the proposed way forward is feasible unless the outstanding questions are answered. Mavenir maintain its position.  [Huawei] : suggest to add this as a solution in Rel18 and capture the corresponding conclusion as well.  [Nokia]: as discussed in telco. Let’s transform into a solution with conclusion in TR 3.875. Please check S3-221928-r1.  [Nokia] : Postpone. | not pursued |  |
|  |  | S3‑221840 | TargetNFServiceSetId to be part of access token claims | Nokia, Nokia Shanghai Bell | CR | >>CC\_1<<  [Nokia] presents.  [Ericsson] comments  [Huawei] challenges the proposal.  [Mavenir] comments.  [Nokia] clarifies.  [Verizon] comments.  >>CC\_1<<  [Mavenir]: propose that this CR is to be noted  [Huawei] : Propose to note this CR. | not pursued |  |
|  |  | S3‑221841 | Clarification on N32-f connection establishment with TLS | Nokia, Nokia Shanghai Bell | CR | [Ericsson]: generally supportive, but updates are required  [Nokia] : -r1 uploaded with proposed change  [Ericsson]: Small but important update proposal to r1  [Nokia]: provides -r2  [Ericsson]: tries to clarify Credentials Holder, r2 requires updates  [Nokia]: note, come back next meeting. | not pursued |  |
|  |  | S3‑221842 | pSEPP authorization fo PLMN ID in access token for TLS | Nokia, Nokia Shanghai Bell | CR | [Ericsson]: Requires updates, the check applies for TLS as well.  [Nokia]: proposes update by mail.  [Ericsson]: agrees with Nokia’s proposed update with minor updates  [Mavenir]: disagree with the minor change E/// proposes as it changed the meaning. Correcting text  [Huawei] : Propose new changes.  [Nokia]: proposes update. -r1 uploaded.  [Huawei] : Reply to NOKIA.  [Mavenir]: r1 still is not accurate. Please see comments below.  [Nokia]: agrees with MVNR proposal. -r2 uploaded.  [Huawei] : Huawei can live with r2. For TLS part, suggest to be discussed in the next meeting.  [Ericsson]: proposes additional clarification  [Mavenir]: fine with the proposed clarification text.  [Nokia]: -r3 uploaded, we are also fine with the proposed clarification text.  [Ericsson]: r3 is fine  [Huawei] : r3 is also fine from Huawei side.  [Mavenir]: r3 is fine too. | agreed | R3 |
|  |  | S3‑221866 | DraftCR NRF deployments | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Huawei, HiSilicon | draftCR |  | approved |  |
|  |  | S3‑221867 | CR NRF deployments | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Huawei, HiSilicon | CR |  | agreed |  |
|  |  | S3‑221983 | Discussion on the SAN and SBA certificate profiles | Ericsson | discussion |  | noted |  |
|  |  | S3‑221984 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR | [Nokia]: requires updates/clarification.  [Ericsson]: tries to clarify  [Nokia]: ok with the CR. | agreed |  |
|  |  | S3‑221985 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR |  | agreed |  |
|  |  | S3‑221986 | Clarification on the certificate profile for SCP | Ericsson, Nokia, Nokia Shanghai Bell | CR | [Ericsson]: provides r1 with minor editorial clarification  [Ericsson]: provides r2 that aligns the minor editorial clarification with 1988-r2 | agreed | R2 |
|  |  | S3‑221987 | Clarification on the certificate profile for SCP | Ericsson, Nokia, Nokia Shanghai Bell | CR |  | agreed | R1 |
|  |  | S3‑221988 | Clarification on the certificate profile for SEPP | Ericsson | CR | [Nokia] : -r1 with Nokia comments uploaded. requires update.  [BSI] : adds some tracked changes to “-r1 with Nokia comments uploaded.“  [Ericsson]: provides r2 based on Nokia’s and BSI’s comments and proposals  [Nokia]: propose to postpone  [Ericsson]: should not be postponed but not pursued | not pursued |  |
|  |  | S3‑221989 | Clarification on the certificate profile for SEPP | Ericsson | CR |  | not pursued |  |
|  |  | S3‑221990 | Review request of an IETF draft on X.509 Certificate Extension for 5G Network Function Types | Ericsson | discussion | >>CC\_4<<  [Ericsson] presents and wants to collect opinion.  [Nokia] comments.  [NTT Docomo] asks whether it is security issue, or general issue.  [Huawei] is general fine with it, but the concern is about time window. Alignment is needed between 3GPP and IETF, concerns on the NFType format defined in 3GPP (need to match in draft)..  [Mavenir] comments, will it raise backward compatibility issues?.  [CMCC] asks questions how long will be the process take, 3-4 yrs, to become an agreed draft?.  [Huawei] comments to pay attention on potential conflicts between 3GPP and IETF definition on NFType definitions.  [Interdigital] comments  [Nokia] replies.  [Verizon] clarifies, in general support the IETF standardization of this, have been using private names..  Chair requests Ericsson to collect feedback and give to Authors.  >>CC\_4<<  [Mavenir]: request clarification of the IETF draft  [CableLabs]: ask questions about otherName for NF Type  [Ericsson]: tries to summarize the comments and questions received at the conf call | noted |  |
|  |  | S3‑221991 | Clarification of SNI usage for NF clients and servers | Ericsson | CR | [Mavenir]: Requests clarification before approval  [Ericsson]: provides clarification to Mavenir  [Mavenir]: good with Ericsson clarification. Good with the CR.  [Nokia]: editorial update request.  [Ericsson]: r1 uploaded, adding Nokia, Nokia Shanghai Bell as supporter | agreed | R1 |
|  |  | S3‑221992 | Clarification on OAuth 2.0 in interconnect and roaming scenarios | Ericsson | discussion | [Huawei]: ask for clarification  [Ericssson]: tries to clarify  [Huawei]: further questions  [Ericsson]: replies to Huawei  [Huawei]: responds to Ericsson  [Ericsson]: replies to Huawei  [Huawei]: clarify that I don’t object to the proposal itself  [Ericsson]: replies to Huawei | noted |  |
|  |  | S3‑221993 | Clarification on OAuth2.0 in interconnect and roaming scenarios, alternative 1 | Ericsson | CR | [Mavenir]: proposes editorial changes for clarity otherwise, it is good.  [Ericsson]: provides r1 with Mavenir’s proposed editorial changes  [Huawei]: have discussion under S3-221992 first and make decisions on this CR accordingly  [Mavenir]: r1 is good. Thanks!  [Huawei]: Ok with r1 | agreed | R1 |
|  |  | S3‑221994 | Clarification on OAuth2.0 in interconnect and roaming scenarios, alternative 2 | Ericsson | CR | [Mavenir]: proposes note this CR.  [Huawei]: have discussion under S3-221992 first and make decisions on this CR accordingly | not pursued |  |
|  |  | S3‑221995 | Authorization between SCPs: Alignment with CR 1414 | Ericsson | CR | [Nokia]: objects frozen Rel-16 change. Suggest to align Rel-17 with text from Rel-16.  [Mavenir]: support this CR.  [Huawei] : Support this CR  [Nokia]: ok with CR | agreed |  |
|  |  | S3‑221996 | 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 | [Nokia]: comments, update needed.  [Ericsson]: asks Nokia to clarify  [Mavenir]: proposes to NOTE this CR.  [Ericsson]: proposes to consider the changes for Rel-18 instead of Rel-16  [Mavenir]: does not mind considering for Rel-18 with clarification.  [Ericsson]: replies to Mavenir | not pursued |  |
|  |  | S3‑221997 | 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 | [Mavenir]: This is a mirror of Rel-16 CR and proposes to NOTE this CR. | not pursued |  |
|  |  | S3‑221998 | SEPP to include and verify the source PLMN-ID | Ericsson, Nokia, Nokia Shanghai Bell, Mavenir | draftCR | [Huawei] : Ens in the draftCR depends on the feedback from SA2 and CT4.  [Ericsson]: This draftCR was approved at SA3#107-e and is submitted as living document.  [Nokia]: LS received C4-224444 from CT4 asking to finalize this draft CR. tdoc “draft\_S3-22xxxx-r1 pCR to update DraftCR S3-221998” uploaded.  [Ericsson]: suggests to address the remaining Editor’s Notes at the November meeting | approved |  |
|  |  | S3‑222028 | Adding optional use of CCA for delegated discovery | China Telecommunications, Nokia, Nokia Shanghai Bell | CR | [Ericsson]: not agreeable in its current form, should be discussed as new feature for Rel-18  [China Telecom]: provides clarification  [Huawei] support the contribution and would like to co-sign  [China Telecom]: provides r1 adding Huawei as cosigner  [Mavenir]: please add Mavenir as cosigner  [China Telecom]: provides r2 adding Mavenir as cosigner  [Ericsson]: r2 also not agreeable in its current form  [Mavenir]: reply to E/// and request clarification.  [ChinaTelecom]: reply to Ericsson.  [Ericsson]: replies to China Telecom and Mavenir  [Mavenir]: appreciate E/// clarification and hope that we have a way forward  [Ericsson]: replies to Mavenir  [Nokia]: propose to note and consolidate views in next meeting. | not pursued |  |
|  |  | S3‑222031 | Adding optional use of CCA for delegated discovery(mirror) | China Telecommunications, Nokia, Nokia Shanghai Bell | CR |  | not pursued |  |
|  |  | S3‑222033 | Revise the pre-requisite of access token request | China Telecommunications | CR | [Mavenir]: proposes to NOTE this CR.  [Mavenir]: proposes a modification to ensure accurate representation.  [China Telecom]: provides r1 with Mavenir's proposed change  [Mavenir]: is good with r1.  [Ericsson]: proposes updates to r1  [China Telecom]: upload r2  [Mavenir]: answer E/// proposal.  [Nokia]: proposes to update as suggested by MVNR.  [ChinaTelecom]: provides r3 as suggested by MVNR.  [Ericsson]: provides r4  [Mavenir]: r4 creates more confusion propose to approve r3.  [Ericsson]: does not agree with r3, clarifies, proposes alternative formulation  [Mavenir]: Sure. proposed text by E/// looks fine.  [ChinaTelecom]: provides r5 with Ericsson's proposed text.  [Nokia]: requests -r6 with only deleting the misleading text and using the original baseline.  [ChinaTelecom]: provides r6 with deleting the misleading text.  [Ericsson]: sees issues with r6  [Nokia]: -r7 with ERI proposal to only add twice “optional” is fine by us | agreed | R7 |
|  |  | S3‑222034 | Revise the pre-requisite of access token request(mirror) | China Telecommunications | CR | [Mavenir]: This is a mirror of S3-222033 and proposes to NOTE this CR. | agreed | R1 |
|  |  | S3‑222035 | Revise the subject that performs verificaiton of access token | China Telecommunications | CR | [Ericsson]: requires minor editorial update  [Ericsson]: with MCC’s explanation, S3-222035 can be agreed as it is | agreed |  |
|  |  | S3‑222036 | Revise the subject that performs verificaiton of access token(mirror) | China Telecommunications | CR |  | agreed |  |
| 4.8 | Security Aspects of Proximity based services in 5GS ProSe (Rel-17) | S3‑221758 | LS Reply on Reply LS on 5G ProSe security open items | InterDigital, Europe, Ltd. | LS out | >>CC\_1<<  Related with 1735 and 1732  [Interdigital] presents  >>CC\_1<<  >>CC\_3<<  [Interdigital] presents current status.  >>CC\_3<<  [CATT]: If this LS is approved, and the draft CR is also approved, then the  draft CR should be attached so that SA2 can begin work on how to align SA3's  work.  [Interdigital]: provide r1: attachment of draftCR 1759, and CR 2029.  [Huawei]: the attachment number should be revised  [Interdigital]: will revise attachment number with MCC response in S3-221759 regarding tdoc#  [Interdigital]: provides r2 with draftCR new number S3-222262 | available |  |
|  |  | S3‑222030 | CR to TS33.503 Update Abbreviations | CATT | CR |  | available |  |
|  |  | S3‑222027 | CR to TS33.503 Define reference point for PAnF | CATT | CR | [Nokia]: fine with question  [CATT]: Provide answer to Nokia.  [Nokia]: No more comment. | available |  |
|  |  | S3‑221834 | Updates on Open 5G ProSe Direct Discovery | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑221835 | Updates on Restricted 5G ProSe Direct Discovery | Qualcomm Incorporated | CR | [Huawei, HiSilicon]: This contribution needs revision before approve.  [Xiaomi]: agrees with Huawei and requests revision  [OPPO]: disagrees with contribution and suggest be NOT PURSUED  [Qualcomm]: provides r1  [Huawei, HiSilicon]: fine with r1  [Qualcomm]: asks OPPO to reconsider the position. | available |  |
|  |  | S3‑221910 | Clarifications of general description to Restricted 5G ProSe Direct Discovery | Ericsson | CR | [Xiaomi]: revision is needed before approval  [Ericsson]: r1 is available  [Xiaomi]: fine with r1 | available |  |
|  |  | S3‑221975 | Correction figure in 5G ProSe Discoervery in TS33.503 | China Telecom Corporation Ltd. | CR |  | available |  |
|  |  | S3‑222023 | CR to TS33.503 Clean up clause 6.1.3.2.2 | CATT | CR | [Nokia]: ask clarification  [CATT]: Provide answer to Nokia.  [CATT]: No more comment.  [Nokia]: No more comment. | available |  |
|  |  | S3‑222198 | Updates to U2N Relay Discovery Security Procedure | Xiaomi Technology | CR | [Nokia]: ask clarification  [Xiaomi]: provides clarification and r1  [Ericsson]: provides comments  [Qualcomm]: provides comments  [Xiaomi]: provides clarification and r2  [Ericsson]: provides comments to r2  [Xiaomi]: provides response and r3  [Ericsson]: r3 is ok  [Nokia]: Nokia is fine with r3.  [Qualcomm]: is fine with r3 | available |  |
|  |  | S3‑222199 | DDNMF Selection during U2N Relay Discovery Security Procedure | Xiaomi Technology | CR | [Nokia]: provide comments  [Huawei, HiSilicon]: This requires further clarification/revision before approval.  [Xiaomi]: provides clarification and r1  MCC commented that the Xiamoi CRs were submitted with the wrong WID code on the cover page. It should be 5G\_Prose and not TEI17.  [Xiaomi]: provides r2  [Huawei, HiSilicon]: provides a suggestion to revision.  [Xiaomi]: provides r3  [Huawei, HiSilicon]: Fine with r3  [Nokia]: Nokia cannot agree r3.  [Nokia]: Disagrees with Nokia’s comment and requests Nokia to reconsider the position  [Nokia]: Nokia still think further investigation is required. | available |  |
|  |  | S3‑222200 | Match Report in U2N Relay Discovery Security Procedure | Xiaomi Technology | CR | [Nokia]: ask clarification  [Xiaomi]: provides clarification  [Xiaomi]: provides draft of the LS out on Match Report to SA2  [Philips] comments. Tends to disagree.  [Xiaomi]: provides clarification and asks for opinion  [Huawei, HiSilicon]: replies to Xiaomi.  [Philips] comments.  [Huawei, HiSilicon]: Provides clarification. No need for the LS to check with SA2.  [Xiaomi]: proposes a way forward and r1  [Huawei, HiSilicon]: provides comments to r1  [Xiaomi]: requests more comments for a way forward  [Huawei, HiSilicon]: support to send LS to SA2 for clarification.  [Nokia]: support to send LS to SA2 for clarification.  [Philips] comments. Not ok with r0 or r1. | available |  |
|  |  | S3‑222202 | Security Method Check during U2N Relay Discovery Procedure | Xiaomi Technology | CR | [Nokia]: provide comments  [Huawei, HiSilicon]: This contribution requires further clarification before approve.  [Ericsson]: provides comments  [Qualcomm]: proposes to note this contribution  [Xiaomi]: provides response | available |  |
|  |  | S3‑221760 | CP-UP Security Procedure selection | InterDigital, Europe, Ltd. | CR | MCC pointed out a couple of issues on the cover page.  [Nokia]: propose merge and provide comments.  [Interdigital]: fixed subject. Closing thread. Discussion to continue under merger 2074. | available |  |
|  |  | S3‑222074 | Resolution of the issue of authentication mechanism selection | Huawei, HiSilicon | CR | [Nokia]: propose merge and provide comments.  [Huawei, HiSilicon]: Fine to merge with 1760 and reply to Nokia.  [Nokia]: Provide further comment.  [Interdigital]: OK with merger of 1760 in 2074.  [Huawei, HiSilicion]: Provides r1 and reply to Nokia.  [Interdigital]: OK with r1.  [Nokia]: Provide r2.  [Interdigital]: comments on CPSI SA2 reference.  [Huawei, HiSilicon]: Provides r3.  [Interdigital]: OK with r3  [Nokia]: R3 is fine.  [Qualcomm]: requests a further revision in r3  [Huawei, HiSilicon]: Provides r4.  [Nokia]: Nokia is fine with r4  [Qualcomm]: is fine with r4 | available |  |
|  |  | S3‑222124 | Clarification on ID handling at AMF and 5G PKMF | Huawei, HiSilicon | CR | [Ericsson] : ask questions  [Nokia] : suggest to leave to stage 3  [Qualcomm]: provides a comment  [Huawei]: provides a way forward.  [Qualcomm]: proposes to postpone | available |  |
|  |  | S3‑222196 | CR to TS33.503 Modify clause and figure titles for U2N relay clauses | CATT | CR |  | available |  |
|  |  | S3‑222201 | Updates to Key Definitions | Xiaomi Technology | CR | [Interdigital]: propose to note  [Interdigital]: provides clarification and comments  [Qualcomm]: requests a revision before approval | available |  |
|  |  | S3‑221746 | Clarification on NAI format for PRUK ID | ZTE Corporation | CR | [Ericsson] : we propose to note  [Philips] provides opinion.  [ZTE]: Provide clarification.  [Ericsson]: Provide comments  [ZTE]: Provide clarification.  [Ericsson]: Provides comments.  [Philips] Comments.  [Qualcomm] supports this contribution  [ZTE]: Ask for suggestion.  [Ericsson]: we are fine with S3-221746  [Philips] comments.  [Huawei, HiSilicon]: asks question.  [ZTE]: Provide clarification.  [CATT]: Provide information. | available |  |
|  |  | S3‑221748 | HPLMN ID of Remote UE in Remote UE Report message | Ericsson | CR |  | available |  |
|  |  | S3‑221749 | Implementation correction of S3-221294 | Ericsson | CR | [CATT]: Merger plan: S3-221749 is the baseline for merging S3-221749 and S3-222026.  [CATT]: Provide r1 for adding merger information.  [Ericsson]: is fine with the merger plan and r1 | available |  |
|  |  | S3‑221909 | Correction to authorization based on RSC | Ericsson | CR | [Interdigital] : revision/clarification required to be approved  [Qualcomm]: provides comments and requires a clarification.  [Ericsson]: provides comments  [Ericsson]: r1 is available  [Interdigital]: OK with r1  [Qualcomm]: is fine with r1 | available |  |
|  |  | S3‑222026 | CR to TS33.503 Correct error in clause 6.3.3.2.2 | CATT | CR | [CATT]: Merger plan: S3-222026 is merged into S3-221749. | available |  |
|  |  | S3‑222204 | Security Method Check during UP-based U2N Relay Communication Establishment | Xiaomi Technology | CR | [Nokia]: provide comments  [Huawei, HiSilicon]: This contribution requires further clarification before approve.  [Ericsson]: provides comments  [Qualcomm]: propose to note this contribution  [Xiaomi]: provides response | available |  |
|  |  | S3‑221759 | Support for Prose Secondary Authentication excluded from Rel-17 | InterDigital, Europe, Ltd., LG Electronics, Samsung | CR | MCC commented that it was asked by SA to remove the secondary authentication, so this note wasn’t enough. When a feature is not supported in a 3GPP release it is normally removed from the release.  [Nokia]: propose merge.  [Interdigital] replies  MCC commented that the removed text could be added later in Rel-18, so a draft CR for Rel-18 was a good idea to preserve the secondary authentication text.  >>CC\_2<<  CATT(Rapporteur) presents general status, there are 3 documents, to add NOTE rather than removal.  Chair asks MCC to give guidance on how to implement SA plenary requirement  MCC clarifies.SA plenary requires removal  [Interdigital] replies it is clear how to deal with it in R17, but not clear in R18, so a draft CR is helpful to keep the content.  [Huawei] has same concern with Interdigital  [CATT] asks whether a new WID is needed or not for draft CR.  [CATT] asks how to deal with R18 SID future work  [CMCC] suggests a way forward.  [IDCC] proposes a discussion paper to find a way forward  Chair suggests to have a mini WID for this specific issue.  [ZTE] comments 2nd authentication is in R18 SID scope, why a separate WID is needed.  [Oppo] suggests to record the conclusion in SID and do not need 2 WIDs.  [Ericsson] supports to 2 separate WID/SID.  [Huawei] doesn’t want to put current context into study.  [CATT] points out there are ENs to indicate that is a complete feature.  [IDCC] doesn’t want to make 2nd authentication interfere current SID. The mini WID can have a very clear scope.  Chair suggests to using current text, clean it up, and pack it and put it in R18 when the WID is approved.  [Huawei] supports to separate it and work into normative phase.  Chair proposes a working assumption as way forward: Convert existing Secondary authentication text as a draft CR. Handle the Rel-18 work as an independent mini WID for this feature, not coupled with ongoing study. Existing ENs in the current text will be resolved as per normal procedures, before adopting..  >>CC\_2<<  [CATT]: According to Tuesday CC, this contribution is noted.  [Interdigital]: provides r1 converted to draft CR including secondary authentication content as separate feature as per CC#2 discussion.  >>CC\_3<<  [Interdigital] presents current status.  [QC] gives editorial comment, about whether existing clause which is voided could be reused in Rel-18.  MCC confirms it could not be reused, should go in to a new clause.  >>CC\_3<<  [Interdigital]: provides r3: update subclauses numbering with ‘x,y,z’ based on comment during CC#3  [Huawei]: remind  [Interdigital]: thanks Huawei for pointing out procedural aspect. Checking with MCC  [Interdigital]: thanks Huawei for pointing out procedural aspect. Checking with MCC  [Interdigital]: thanks MCC for help. Declares new doc# for the draft CR in this thread S3-222262 | available |  |
|  |  | S3‑221879 | 5GPRUK refresh in clause 6.3.3.3.2 | ZTE Corporation | CR | [Xiaomi]: provides comments  [Nokia]: provides comments  [ZTE]: Provide clairfication.  [Huawei, HiSilicon]: This contribution needs clarification before approval.  [ZTE]: provide clarification.  [Qualcomm]: provides comments  [Qualcomm]: proposes to postpone | available |  |
|  |  | S3‑221880 | Clarification on subscription update in clause 6.3.3.3.2 | ZTE Corporation | CR | [Ericsson] : asks questions  [ZTE]: Provide clarification.  [Nokia]: question for discussion.  [ZTE]: provide clarification.  [Huawei, HiSilicon]: requires clarification/revision before approve.  [ZTE]: provide r1.  [Ericsson]: provides comments  [Huawei, HiSilicon]: reply to ZTE. | available |  |
|  |  | S3‑221972 | Clarification for ProSe UE-to-Network Relay security procedure over Control Plane in TS33.503 | China Telecom Corporation Ltd. | CR | [Nokia]: Fine with minor comments  [ChinaTelecom]: Reply to comments.  [Nokia]: No more comments. | available |  |
|  |  | S3‑221981 | Correction figure in ProSe UE-to-Network Relay security procedure over Control Plane in TS33.503 | China Telecom Corporation Ltd. | CR | [CATT]: Merger plan: S3-221981 is the baseline for merging S3-221981 and S3-222032.  [ChinaTelecom]: agree merger plan and provide r1.  [CATT]: r1 is ok. | available |  |
|  |  | S3‑222205 | Corrections in TS 33.503 | Xiaomi Technology | CR | [Nokia]: provide comments  [Ericsson]: requires updates in order to be agreed  MCC asked to make the cover page more meaningful by not introducing such generic information. They pointed out some issues on the cover page.  [Qualcomm]: requests a revision  [Xiaomi]: provides r1  [Ericsson]: fine with r1  [Nokia]: Nokia is fine with r1  [Qualcomm]: is fine with r1 | available |  |
|  |  | S3‑222032 | CR to TS33.503 Update Figure 6.3.3.3.2-1 | CATT | CR | [CATT]: Merger plan: S3-222032 is merged into S3-221981. | available |  |
|  |  | S3‑222076 | Clarification on 5G ProSe Remote UE specific authentication mechanism | Huawei, HiSilicon | CR | [Ericsson] : needs updates before it can be agreed  [Interdigital] : revision required to be approved  [Huawei, HiSilicon]: Provides reply to Ericsson & Interdigital and provide r1.  [Qualcomm]: asks revision before approval.  [Ericsson]: asks revision before approval.  [Huawei, HiSilicon]: provides r2 and reply to the comments.  [Ericsson]: we are fine with r2  [Interdigital]: OK with r2  [Huawei, HiSilicon]: Asks if r2 addresses the concerns.  [Qualcomm]: is fine with r2. | available |  |
|  |  | S3‑222077 | Remote UE Report when security procedure over Control Plane is performed | Huawei, HiSilicon | CR | [Huawei, HiSilicon]: propose to merge contribution S3-222005 into S3-222077.  [Nokia]: Fine to merge with comments.  [Huawei, HiSilicon]: provides r1.  [Nokia]: provides comment on r1.  [Huawei, HiSilicon]: provides r2.  [Nokia]: fine with r2.  [Interdigital]: OK with r2. Remember to add merger info with 2005 in header  [Qualcomm]: revision required and provides comment in r2  [Huawei, HiSilicon]: provides r3 to address typo and add merging info. Provides clarification to Qualcomm.  MCC pointed out a minor issue on the cover page.  [Interdigital]: OK with r3.  [Nokia]: OK with r3.  [Qualcomm]: is fine with r3 | available |  |
|  |  | S3‑222203 | Security Method Check during CP-based U2N Relay Communication Establishment | Xiaomi Technology | CR | [Nokia]: provide comments  [Huawei, HiSilicon]: This contribution requires further clarification before approve.  [Ericsson]: provides comments  [Qualcomm]: proposes to note this contribution.  [Xiaomi]: provides response | available |  |
|  |  | S3‑222078 | clarification on SUPI in Nudm\_UEAuthentication\_GetProseAv service | Huawei, HiSilicon | CR | [Nokia]: Provide comments  [Ericsson]: Provide comments  [Huawei, HiSilicon]: reply to Nokia.  [Qualcomm]: provides comments  [Interdigital]: support keeping the SUPI as per original text.  [Ericssonl]: support the removal of SUPI as in S3-222078 | available |  |
|  |  | S3‑222096 | Correction to Nausf\_UEAuthentication\_Authenticate service | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑221911 | Rename 5GPRUK ID and 5GPRUK in CP based solution | Ericsson | CR | [Interdigital] : OK with renaming. Suggest to drop the “5G” from the new name  [Huawei, HiSilicon]: propose to not introduce name changes at this stage.  [CATT]: Provide more information related to these key names.  >>CC\_3<<  [CATT] gives brief introduction about background and current status.PRUK usage in CP and UP solutions is confusing and proposal to use them with separate names..  [Ericsson] presents the contribution for PRUK name change.  Chair asks question for clarification.  CATT , Ericsson, Oppo support name change.  Huawei objects.  [Huawei] clarifies the motivation about objection.  [Samsung] comments, prefer to change the name.  [Interdigital] clarifies.  Chair asks Huawei to accept name change as there is major to support change and that is not a technical issue.  >>CC\_3<<  [Ericsson]: Provides r1  [CATT]: Fine with r1.  [Interdigital]: OK with r1.  [Huawei, HiSilicon]: can live with r1. | available |  |
|  |  | S3‑222029 | CR to TS33.503 Remove secondary authentication related content | CATT | CR | [CATT]: Propose using S3-222029 as the baseline for merging S3-222029 and S3-222075.  [OPPO]: requires changes.  [Nokia]: propose merge.  [Interdigital]: not ok with straight deletion of the secondary authentication without knowing where to “park” the text in the mean time  >>CC\_2<<  [CATT] asks to keep reference even when secondary authentication is removed.  [Oppo] comments ref#12 could be used in other place.  Chair asks to check whether it is used in other place or not.  >>CC\_2<<  [CATT]: Provide r1 for the merger and revision according to Tuesday CC.  [Ericsson]: supports r1  [Huawei, HiSilicon]: Fine with r1  [Interdigital]: OK with r1 | available |  |
|  |  | S3‑222075 | Delete of secondary authentication | Huawei, HiSilicon | CR | [CATT]: Propose using S3-222029 as the baseline for merging S3-222029 and S3-222075.  [Nokia]: propose merge.  [Huawei, HiSilicon]: ask for clarification.  [Nokia]: Answer question from Huawei  [Interdigital]: not ok with straight deletion of the secondary authentication without knowing where to “park” the text in the mean time  [CATT]: According to Tuesday CC, S3-222075 is merged into S3-222029. | available |  |
|  |  | S3‑222079 | Add clause of broadcast communication | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑222080 | Add clause of groupcast communication | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑222005 | clarify Remote UE ID of Remote UE report for CP based security | Nokia, Nokia Shanghai Bell | CR | [Huawei, HiSilicon]: propose to merge contribution S3-222005 into S3-222077.  [Nokia]: close the thread as merged to 2077. | available |  |
|  |  | S3-222258 | LS on Source user info in Direct Communication Request in UE-to-Network Relay | QC | LS out | >>CC\_3<<  [QC] presents motivation for the LS, inclusion of the Source user info in DCR.  Chair asks for clarification of the issue.  [Interdigital] asks question.  Chair clarifies. >>CC\_3<<  [Qualcomm]: announces a thread for a new LS out  [CATT]: Provide information about S3-222258.  [Huawei, HiSilicon]: Propose to postpone it.  [OPPO]: Propose to NOTE.  [Philips] comments.  [Interdigital] propose to postpone. |  |  |
|  |  | S3‑222121 | Clarification on ID handling at AMF and 5G PKMF | Huawei, HiSilicon | CR |  | withdrawn |  |
| 4.9 | All topics (Rel-15/16/17/18 ) | S3‑221741 | [33.180] R14 Incorrect Reference | Motorola Solutions Danmark A/S | CR |  | agreed |  |
|  |  | S3‑221742 | [33.180] R15 Incorrect Reference (mirror) | Motorola Solutions Danmark A/S | CR |  | agreed |  |
|  |  | S3‑221743 | [33.180] R16 Incorrect Reference (mirror) | Motorola Solutions Danmark A/S | CR |  | agreed |  |
|  |  | S3‑221744 | [33.180] R17 Incorrect Reference (mirror) | Motorola Solutions Danmark A/S | CR | [Nokia]: agrees that reference is wrong , but does not agree with resolution.  [MSI: Agrees to use Annex B.4 as the reference.  [Nokia]: agrees with reference to Annex B4. | agreed | ?? |
|  |  | S3‑221747 | Address ENs related to sending UAV ID to UAV | Huawei, HiSilicon | CR | [Lenovo]: Requests revision.  [Huawei] response to Lenovo and provide r1.  [Qualcomm] proposes r1 should be noted  [Lenovo] r1 is fine. | not pursued |  |
|  |  | S3‑221827 | Resolving the EN on CAA level ID during UUAA procedures | Qualcomm Incorporated | CR | [Huawei] This CR is not aligned with the stage-3 spec. proposes to use 1747 CR to resolve the EN.  [Lenovo]: The contribution is not acceptable. | not pursued |  |
|  |  | S3‑221828 | Resolving the ENs on CAA level ID during revocation | Qualcomm Incorporated | CR | [Huawei] proposes to remove the EN as in 1747 CR.  [Lenovo]: The contribution is not acceptable. | not pursued |  |
|  |  |  |  |  |  |  |  |  |
|  |  | S3‑221825 | Proposed correction to Annex D on gNB network product class | Qualcomm Incorporated | CR | [Huawei] ask for clarifications  [Qualcomm] provides response  [Huawei] propose to start from Rel-16  [Qualcomm] uploaded r1 of Rel-16 and Rel-17 versions  [Huawei] fine with r1 | agreed | R1 |
|  |  | S3‑221826 | Corrections for gNB test cases | Qualcomm Incorporated | CR | [Huawei] ask for clarifications  [Qualcomm] provides response  [Huawei] propose to start from Rel-16  [Qualcomm] uploaded r1 of Rel-16 and Rel-17 versions  [Huawei] fine with r1 | agreed | R1 |
|  |  | S3‑221886 | Adding a test case for gNB in TS 33.511 clause 4.2.2.1.4-R16 | ZTE Corporation | CR | MCC asked whether it was possible to keep adding new test cases in deeply frozen Releases (like Rel-16).  The cover page states that this is cat-B, it is not possible to present cat-B CRs for releases under rel-18.  MCC noticed that this group of CRs (886-888) was related to the changes proposed by the CRs in tdocs 889-891. This relationship should appear in the cover pages of both groups, using the field  Other specs  affected:  (show related CRs)  [Qualcomm] Test name is missing  [ZTE]: Will update it in the next version.  [Huawei]: does not agree with the change.  [ZTE]: provide clarification.  [Ericsson]: propose to note the document.  [ZTE]: Fine to note this one. | not pursued |  |
|  |  | S3‑221887 | Adding a test case for gNB in TS 33.511 clause 4.2.2.1.4-R17 | ZTE Corporation | CR | [Huawei]: does not agree with the change.  [Ericsson]: propose to note the document.  [ZTE]: Fine to note this one. | not pursued |  |
|  |  | S3‑221888 | Adding a test case for gNB in TS 33.511 clause 4.2.2.1.4-R18 | ZTE Corporation | CR | [Huawei]: does not agree with the change.  [Ericsson]: propose to note the document.  [Nokia]: question for clarification, expected result upon execution of step 1b) is missing  [Keysight]: Provides clarification  [Nokia]: agreed, with modification  [Keysight]: Asks for suggestion  [Nokia]: provides response  [ZTE]: Provide R1.  [Keysight]: Agree with R1  [Huawei]: disagree  [Keysight]: Asks for clarification to objection  [Huawei]: replies  [Keysight]: reply  [Ericsson]: propose to note the document. | not pursed |  |
|  |  | S3‑221942 | clarification on IP\_FWD\_DISABLING-R16 | Huawei,HiSilicon | CR | [Qualcomm] Added NOTE is in the wrong format and incorrect NOTE numbering  [Huawei] correct the format and the numbering and provide r1  [Qualcomm] OK with r1  [Ericsson] Proposed to remove the test case.  [Huawei] agree with the proposal to remove the test case please see in r2.  [Ericsson]: r2 is OK | agreed | R2 |
|  |  | S3‑221943 | clarification on IP\_FWD\_DISABLING-R17 | Huawei,HiSilicon | CR | [Ericsson] Proposed to remove the test case.  [Huawei] agree with the proposal to remove the test case please see in r1.  [Ericsson]: r1 is OK | agreed | R1 |
|  |  | S3‑221944 | modification on EXCLUSIVE\_EXECUTE\_RIGHTS-R16 | Huawei,HiSilicon | CR | [Qualcomm] No numbering of NOTES in CR  [Huawei] correct the numbering and provide r1  [Qualcomm] OK with r1  [Ericsson] Revision needed or document can be noted.  [Ericsson] Proposed to remove the test case.  [Huawei] agree with the proposal to remove the test case please see in r2. | agreed | R2 |
|  |  | S3‑221945 | modification on EXCLUSIVE\_EXECUTE\_RIGHTS-R17 | Huawei,HiSilicon | CR | [Ericsson] Revision needed or document can be noted.  [Ericsson] Proposed to remove the test case.  [Huawei] agree with the proposal to remove the test case please see in r1.  [Ericsson]: r1 is OK | agreed | R1 |
|  |  | S3‑221946 | modification on Handling of ICMP-R16 | Huawei,HiSilicon | CR | [Qualcomm] TS version is incorrect  [Huawei] correct the version and provide r2  [Qualcomm] OK with r2 | agreed | R2 |
|  |  | S3‑221947 | modification on Handling of ICMP-R17 | Huawei,HiSilicon | CR |  | agreed | R1 |
|  |  | S3‑221948 | modification on IP\_MULTICAST\_HANDLING-R16 | Huawei,HiSilicon | CR | [Qualcomm] No numbering of NOTES in CR  [Huawei] correct the numbering and provide r1  [Ericsson] This applicability should be under Pre-Conditions, not under Purpose. Needs new revision.  [Huawei] agree with Ericsson’s proposal and provides R2.  [Ericsson] r2 is not ok.  [Huawei] responds to Ericsson.  [Huawei] provides r3 for sake of progress.  [Qualcomm] OK with r3 | agreed | R3 |
|  |  | S3‑221949 | modification on IP\_MULTICAST\_HANDLING-R17 | Huawei,HiSilicon | CR | [Ericsson] This applicability should be under Pre-Conditions, not under Purpose. Needs a revision.  [Huawei] agree with Ericsson’s proposal and provides R1.  [Ericsson] r1 is not ok.  [Huawei] provides r2 for sake of progress.  [Ericsson] r2 is ok. | agreed | R2 |
|  |  | S3‑222024 | Discussion paper on improvements of TS33.117 | BSI (DE) | discussion | >>CC\_1<<  [BSI] presents, multiple clarifications needed, plan is to bring CRs in the next meeting.  [NTT Docomo] asks which release should be updated?  [BSI] has no hard proposal on which release.  [Chair] Please discuss applicable Rel over email.  >>CC\_1<< | noted |  |
|  |  | S3‑221773 | Discussion on privacy issue in AKMA | Nokia, Nokia Shanghai Bell | discussion | >>CC\_1<<  [Nokia] presents  [Ericsson] doesn’t understand the issue.  [Nokia] clarifies.  [Huawei] has similar consideration with Ericsson, doesn’t consider the issue valid  >>CC\_1<<  [Ericsson]: Proposes to note the document. Requests for clarifications.  [Nokia]: Provide clarification  [Samsung] Agree with the threat proposed in this DP.  [Ericsson]: requests for clarifications.  [Qualcomm]: proposes to note.  [CMCC]: requests clarification.  [Nokia]: provide clarification.  [Qualcomm]: responds to Nokia.  [Nokia]: provide clarification and ask for atleast to study the privacy issue.  [Qualcomm]: responds to Nokia’s ask. | noted |  |
|  |  | S3‑221882 | Add ApplicationKey\_ AnonUser\_Get into table 7.1.1-1 | ZTE Corporation | CR | [Nokia] Provide comments and suggest changes  [ZTE]: Provide R1.  [Nokia]: Fine with R1  [Ericsson]: Asks for clarifications.  [ZTE]: provide r2.  [Ericsson]: is fine with r2.  [Ericsson]: is fine with r2.  [Ericsson]: proposes to produce the next revision of the CR with category “F” instead of category “D” after consulting the MCC.  [ZTE]: R1 is correct with 'F'. | agreed | R2 |
|  |  | S3‑221883 | Add Context\_Remove into table 7.1.1-1. | ZTE Corporation | CR | [Ericsson]: Proposes not to pursue.  [ZTE]: provide r1.  [Ericsson]: proposes to produce the next revision of the CR with category “F” instead of category “D” after consulting the MCC.  [ZTE]: Provide R2.  [CMCC]: asks questions.  [Huawei] ask for clarifications on use of OAM  [ZTE]: provide response.  [Huawei] propose to postpone | not pursued |  |
|  |  | S3‑221884 | Add UDM or OAM in clause 6.6.1and 6.7 | ZTE Corporation | CR | [Ericsson]: Proposes not to pursue.  [ZTE]: provide r1.  [Ericsson]: proposes to produce the next revision of the CR with category “F” instead of category “D” after consulting the MCC.  [CMCC]: asks questions.  [Nokia]: providing Nokia view on the terminology  [Huawei] ask for clarifications on use of OAM  [ZTE]: provide response.  [Huawei] propose to postpone | not purused |  |
|  |  | S3‑221885 | AKMA application context removal | ZTE Corporation | CR | [Nokia] Ask for clarification  [ZTE]: Provide clarification.  [Nokia] Fine with the clarification  [ZTE]: Provide more clarification.  [Ericsson]: Propose not to pursue. This procedure is not needed.  [Qualcomm]: also proposes to not pursue. | not pursued |  |
|  |  | S3‑222014 | IETF OSCORE as AKMA Ua\* protocol | Ericsson, Deutsche Telekom | CR | [Huawei] points out that this CR depends on the WID approval in which case we propose to revise it to a living document.  [Thales]: proposes to postpone the discussion. | not pursued |  |
|  |  | S3‑222015 | Extending the Ua security protocol namespace to include the AKMA OSCORE Ua\* protocol | Ericsson, Deutsche Telekom | CR | [Huawei] points out that this CR depends on the WID approval in which case we propose to postpone.  [Thales]: proposes to postpone the discussion. | not pursued |  |
|  |  | S3‑222143 | AAnF sending GPSI to internal AKMA AF | China Mobile | CR | [Ericsson]: Proposes not to pursue.  [CMCC]: Provides clarification.  [Ericsson]: provides some clarifications.  [CMCC]: provides some clarifications.  [Ericsson]: requests for more clarifications.  [CMCC]: provides more clarifications.  [Ericsson]: provides clarifications.  [CMCC]: provides clarifications. | not pursued |  |
|  |  | S3‑222058 | Clarifications to TS 33.535 | Huawei, HiSilicon | CR | [Ericsson]: asks for clarifications.  [Huawei] provide clarification  [Ericsson]: provides clarifications  [Ericsson]: is fine with the contribution. | agreed |  |
|  |  | S3‑221774 | Correction in UPU procedure to align with stage 3 | Nokia, Nokia Shanghai Bell | CR | [Huawei] Not OK with adding UPU header in MAC calculation since we cannot see the misalignment between SA3 and CT1 on this point.  [Nokia] Provide clarification  [Qualcomm] Not OK with CR as proposed as don’t agree with changes to MAC calculation and step 6  >>CC\_2<<  [Nokia] presents.  [QC] comments.  [Nokia] replies CT4 has changed the description. This is only an alignment CR with CT4.  [Huawei] comments current spec is very clear, header is not included in the MAC-I calculation and there is no security issue.  [NTT Docomo] comments CT4 didn’t change.  >>CC\_2<<  [Nokia] Provide clarification and ask: Either we have to agree on the alignment in SA3 via this CR or send LS to CT4 to align with SA3.  [Ericsson] Propose to update/note  [Nokia] provides clarification  [Lenovo]: Supports the purpose of this contribution.  Asks for clarification.  [NTT DOCOMO]: supports clarification, which is purpose of this contribution  [Nokia] Provide clarification to Lenovo and seek advice on the wording from the opponents | not pursued |  |
|  |  | S3‑221775 | Correction in UPU procedure to align with stage 3 | Nokia, Nokia Shanghai Bell | CR |  | not pursued |  |
|  |  | S3‑221776 | NSWO alignment for MSK and PMK | Nokia, Nokia Shanghai Bell, CableLabs | CR |  | agreed |  |
|  |  | S3‑221777 | Correction in AUSF api related to NSWO | Nokia, Nokia Shanghai Bell, CableLabs | CR | [Ericsson] Proposes to update the CR with UDM service API impacts and other missing AUSF service API parameters.  [Nokia] Agree with the comment and propose r1  [Ericsson] Ericsson is fine with r1. | agreed | R1 |
|  |  | S3‑221778 | LS reply on 5G NSWO roaming aspects | Nokia, Nokia Shanghai Bell | LS out | [Nokia]: provides r1. | agreed | R1 |
|  |  | S3‑222025 | Clarification on Authentication for UE behind 5G-RG and FN-RG | CableLabs | CR | [Huawei]: revision is needed before approval.  [Ericsson]: Propose to note  [Qualcomm]: revision is required.  [CableLabs]: provides clarification.  [Ericsson]: Redraw proposal to note and align with QC comment to revise  [CableLabs]: provided -r1  [Qualcomm]: fine with r1.  [CableLabs]: provided clarification on other changes.  [Ericsson]: fine with r1.  [Huawei]: fine with r1. | agreed | R1 |
|  |  | S3‑221795 | Include SN ID in NSSAA procedure in support of multiple registration | Huawei, Hisilicon | CR | MCC pointed out that the mirror for this CR was missing.  [Huawei] response to MCC.  [Ericsson] proposed to note the document.  [Huawei] response to Ericsson. | not pursued |  |
|  |  | S3‑221796 | Clean up to TR33874 | Huawei, Hisilicon | CR | MCC clarified that the scope of this TR was Rel-18, so the added conclusion should read something like “it is concluded that no normative work is recommended for the usage based NSAC issue under KI#2.”  [Huawei] r1 is provided according to MCC’s suggestion.  [Huawei] r1 is provided according to MCC’s suggestion.  [Huawei] r1 is provided according to MCC’s suggestion.  [Ericsson]: requests for clarifications.  [Huawei]: Clarification to comments from Ericsson.  [Ericsson]: is fine with the clarification. | agreed | R1 |
|  |  | S3‑221797 | Address EN on alignment to SA2 | Huawei, Hisilicon | CR | [Ericsson]: proposes not to be pursued. Prefers S3-222020 from Ericsson. The LS is not needed to be sent to SA2 if the SA3 procedures use the AF-Service-Identifier.  [Qualcomm]: thinks it would better if SA3 can use AF-Service-Identifier as alignment is completed in SA3  [Nokia]: Merge proposal and comments.  [Ericsson]: comments that there is a revision r1 in 2020.  [Ericsson]: proposes not to pursue since the merging and revision of 2020 is not agreed. | not pursued |  |
|  |  | S3‑221798 | LS to SA2 to align NSACF procedure | Huawei, Hisilicon | LS out | [Ericsson]: This LS is not needed if SA3 aligns to SA2 and uses the AF-Service-Identifier in 33.501.  [Huawei] Discussion with SA2 seems to be needed to clear doubts and move forward.  [Ericsson]: proposes to note this LS. | noted |  |
|  |  | S3‑221799 | Address EN on AF Authorization | Huawei, Hisilicon | CR | [Ericsson]: proposes to merge this contribution to 2019 and use 2019 as baseline. The token claims statement in Step 3 of the procedure is not well defined and should be removed as well as is proposed in 2019.  [Huawei] agrees to the merger of 2019 and 1799. Further comments below.  [Xiaomi]: Propose to merge 1799, 2236 to 2019. And use 2019 as the baseline.  [Nokia] Suggest to merge 1799, 2236 and 2019, take 1799 as baseline  [Xiaomi] provides some inputs.  [Ericsson]: provides comments.  [Ericsson]: provides comments. It is ok to include the local configuration option in 1799 from 2019.  [Ericsson]: proposes to note this document as it was agreed which baseline to use or revisions have not been produced. | not pursued |  |
|  |  | S3‑222018 | Discussion on the authorization of Application Functions for NSACF services via the NEF | Ericsson | discussion | >>CC\_1<<  [Ericsson] presents  [Huawei] comments, has good summary of problem, but has different proposal on how to solve the issue, proposes to continue discussion via email.  >>CC\_1<<  [Huawei] proposes to note this discussion paper presented yesterday and continue discussions on respective CR threads. | not pursued |  |
|  |  | S3‑222019 | Clarification on AF authorization for the NSACF notification procedure | Ericsson | CR | [Huawei] proposes to consider merger of 2019 and 1799. Some common ground can be found especially in the first part of the changes.  [Nokia] Suggest to merge 1799, 2236 and 2019, take 1799 as baseline  [Ericsson]: proposes not to pursue this since there was no merger document. | not pursued |  |
|  |  | S3‑222020 | Alignment of NSACF notification procedure with existing procedures | Ericsson | CR | [Huawei]: prefer 1797 and use the existing parameter ENSI, instead of AF-Service-Identifier.  [Nokia]: Merge proposal and comments.  [Ericsson]: Fine to merge and proposes to have 2020 as baseline.  [Ericsson]: provides r1.  [Xiaomi]: provides clarification.  [Ericsson]: comments that companies need to make their positions clear.  [Xiaomi]: provides r2.  [Ericsson]: does not agree with r2.  [Xiaomi]: is ok to discuss the topic in the next meeting. | not pursued |  |
|  |  | S3‑222235 | Resolving the alignment related EN for NSACF Subscription and unsubscription procedure | Xiaomi Communication | CR | [Ericsson]: requests clarifications.  [Huawei] prefers 1797 using ENSI and not to introduce additional mapping from ENSI to the AF-Service-Identifier  [Nokia]: Merge proposal and comments.  [Ericsson]: comments that there is a revision r1 in 2020.  [Ericsson]: proposes not to pursue since the merging and revision of 2020 is not agreed. | not pursued |  |
|  |  | S3‑222236 | Update Subscription and unsubscription procedure of NSACF notification service | Xiaomi Communication | CR | [Ericsson]: asks for clarifications before accepting this contribution.  [Huawei] disagrees with the CR and provides comments.  [Nokia] Suggest to merge 1799, 2236 and 2019, take 1799 as baseline  [Ericsson]: proposes not to pursue. | not pursued |  |
|  |  | S3‑221874 | Secondary PDU re-authentication when UE is not reachable | Samsung | CR | >>CC\_1<<  [Samsung] presents.  [Huawei] comments, has different view on this issue. It should not be a cat-F CR, but a cat-B.  [Samsung] clarifies, just try to align with SA2/CT3  >>CC\_1<<  [Huawei] The CR is not needed.  [Samsung] provides clarification.  [Ericsson] This is not an essential correction.  [Huawei] provide further comments.  [Samsung] provides clarification.  [Samsung] provides clarification.  [Huawei] response to Samsung.  [Samsung] provides clarification.  [Huawei] provides comments.  [Samsung] provides clarification. | not pursued |  |
|  |  | S3‑222228 | 33.501: R15 Update EAP based secondary authentication by an external DN-AAA server | Xiaomi Communication | CR | [Huawei] The CR is not needed.  [Xiaomi] provides clarification.  [Ericsson] The CR is not needed | not pursued |  |
|  |  | S3‑222229 | 33.501: R16 Update EAP based secondary authentication by an external DN-AAA server (mirror) | Xiaomi Communication | CR | [Huawei] The CR is not needed.  [Xiaomi]: provides clarification.  [Ericsson] The CR is not needed | not pursued |  |
|  |  | S3‑222230 | 33.501: R17 Update EAP based secondary authentication by an external DN-AAA server (mirror) | Xiaomi Communication | CR | [Huawei] The CR is not needed.  [Xiaomi]: provides clarification.  [Ericsson] The CR is not needed | not pursued |  |
|  |  | S3‑221889 | Clarification on ResumeMAC-IshortResumeMAC-I check failed in clause 6.8.2.1.3-R15 | ZTE Corporation | CR | [Nokia]: difficult to agree, because the TS 33.501 is typically describing the successful cases  [ZTE]: Provide clarifications.  Dependency with tdoc group 886-88 should appear in the cover page. The WID code for Rel-15 is 5GS\_Ph1-SEC. All the CRs, cat-F to A should have the same WID code.  [ZTE]: Will update it in the next version.  [Nokia]: Commenting on the clarification.  [ZTE]: provide clarification.  [Keysight]: Provide clarifications  [Ericsson]: Propose to note the document.  >>CC\_2<<  [ZTE] presents  Chairs asks whether this is a FASMO issue.  [ZTE] believes it is FASMO issue.  [VF] comments whether it has backward compatibility with frozen releases.  >>CC\_2<<  [Keysight]: Provide clarification and ask for details  [Nokia]: provides additional clarification  [Nokia]: provides response  [Keysight]: Asks for suggestion  [ZTE]: Provide response.  [Nokia]: provides suggestion as requested  [Keysight]: Provide comments  [ZTE]: Fine with option B. | not pursued |  |
|  |  | S3‑221890 | Clarification on ResumeMAC-IshortResumeMAC-I check failed in clause 6.8.2.1.3-R16 | ZTE Corporation | CR | [Nokia]: difficult to agree, because the TS 33.501 is typically describing the successful cases  [Ericsson]: Proposed to note the document. | not pursued |  |
|  |  | S3‑221891 | Clarification on ResumeMAC-IshortResumeMAC-I check failed in clause 6.8.2.1.3-R17 | ZTE Corporation | CR | [Nokia]: difficult to agree, because the TS 33.501 is typically describing the successful cases  [ZTE]: Provide R1.  [ZTE]: Provide R1.  [ZTE]: Provide R1.  [Keysight]: Agreed with R1  [Huawei]: not fine with r1, and ask for clarification.  [Keysight]: Provides clarification and questions  [Huawei]: reply.  [Keysight]: Provides explanation  [Huawei]: replies  [Ericsson]: Proposed to note the document (r1). | not pursued |  |
|  |  | S3‑222021 | Living document for SERP: draftCR to TS 33.501 on the Protection of the RRC Resume Request message | Ericsson | draftCR | [Huawei]: fine to use 2021 as baseline and provide comments.  [Samsung]: Objects to current version. Seems incomplete as compared to the concluded solution#17  >>CC\_2<<  [Apple] presents current status. 3 contributions could be merged.  >>CC\_2<<  [Ericsson]: provides clarifications.  [Apple]: provides clarifications.  [Qualcomm]: provides some views.  [Samsung]: Disagrees to have 2090 as baseline. Provides clarification to previous comment.  [Huawei]: prefer to use 2090 as baseline and 2021 is also acceptable. Provide some views.  [Ericsson]: provides a proposal for a baseline for discussion.  [Apple]: OK to use 2021 as the baseline.  [Ericsson]: provides r1.  [Samsung]: Objects to r1  [Ericsson]: provides clarifications.  [Apple]: Propose way forward to address Samsung’s concern.  [Huawei]: propose r2.  [Ericsson]: provides r3.  [Samsung]: Objects to r2,r3. Provides r4 on top of r3.  [Ericsson]: provides r5.  [Qualcomm]: Needs changes before approval  [Samsung]: Provides r6  [Ericsson]: provides r7.  [Samsung]: Objects to r7.  [Apple]: comments.  [Ericsson]: provides some explanations.  [Huawei]: provides r8 and response.  [Samsung]: Strongly objects to r8.  [Ericsson]: provides r9 and clarifications  [Samsung]: Objects to r9  [Qualcomm]: r9 requires changes | noted |  |
|  |  | S3‑222090 | Protection of RRC Resume Request mesasge | Huawei, HiSilicon | draftCR | [Ericsson]: Proposes to merge this contribution to Ericsson’s S3-222021 and use 2021 as baseline.  [Samsung]: Objects to current version. Seems incomplete as compared to the concluded solution#17.  [Apple]: suggest to merge into S3-222021. | noted |  |
|  |  | S3‑222190 | SERP-CR to 33501 | Apple | CR | [Ericsson]: Proposes to merge this contribution to Ericsson’s S3-222021 and use 2021 as baseline.  [Samsung]: Objects to current version. Seems incomplete as compared to the concluded solution#17.  [Apple]: Fine to merge into S3-222021. | not pursued |  |
|  |  | S3‑222191 | SERP-Draft LS on SERP | Apple | LS out | [Ericsson]: Proposes to postpone this LS for a later meeting.  >>CC\_2<<  [Apple] presents current status.  [Ericsson] suggests to postpone the draft LS to next meeting.  [QC] doesn’t agree to send LS out for these kind of work. When CR is agreed in SA plenary, other WGs can pick up the work..  >>CC\_2<< | noted |  |
|  |  | S3‑222255 | Clarification to multiple registrations in different PLMNs | Ericsson | CR | [Nokia] asks for clarification before approval  [Huawei]: propose to not pursued  [Ericsson]: provides comments  [Nokia]: provides further comments  [Ericsson]: provides further comments  [Nokia]: provides further comments and clarification  [NEC] provides comments.  [NEC] propose to note this paper as it doesn’t solve the issue. | not pursued |  |
|  |  | S3‑222257 | Discussion paper on multiple registrations in different PLMN’s and different access types | Ericsson | discussion | >>CC\_1<<  [VF] why we do multiple registration in different PLMNs?  Chair clarifies the background.  [Ericsson] presents.  [Nokia] comments the discussion is not aligned with CR proposed.  [Huawei] comments.  >>CC\_1<< | not pursued |  |
|  |  | S3‑222006 | Add restriction for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : provides initial comments  >>CC\_2<<  [Nokia] presents current status.  [Ericsson] clarifies there are 3 kinds of contributions. Yesterday just discuss 1st one mentioned in Ericsson contribution.  [Nokia] clarifies the contribution related to 3 different issues.  >>CC\_2<<  [Qualcomm] Not OK with CR as proposed  [Nokia] Provide answers for the comments and r1.  [Ericsson] we propose to postpone to next meeting to have more time to check  [Qualcomm] Maintain that the contribution should be noted | not pursued |  |
|  |  | S3‑222007 | control on NSSAA procedures for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | CR | >>CC\_2<<  [Huawei] requests to move 007 and 009 to slicing part to discuss together.  Chair is ok with the proposal.  >>CC\_2<<  [Qualcomm] CR requires changes before approval  MCC pointed out an issue on the cover page. They also commented that the NOTE in 16.4 contained a “should”/recommendation. Notes are informative.  [Huawei] this CR is addressing the same issue that the CR in 1795 (under Net Slice topic) is addressing. Propose to discuss them together. Comments to this CR is provided in the email.  [Nokia] Provide answers for the comments and r1.  [Huawei] comments to Nokia’s response.  [Qualcomm] r1 requires changes before approval  [Huawei] proposes to postpone for further discussions next meeting. | not pursued |  |
|  |  | S3‑222008 | Add restriction for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | CR | >>CC\_2<<  >>CC\_2<<  [Qualcomm] Not OK with CR as proposed  [NEC] provides comment.  [Ericsson] we propose to postpone to next meeting to have more time to check | not pursued |  |
|  |  | S3‑222009 | control on NSSAA procedures for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | CR | [Qualcomm] CR requires changes before approval  [Huawei] this CR is addressing the same issue that the CR in 1795 (under Net Slice topic) is addressing. Propose to discuss them together. Comments to this CR is provided in the email. | not pursued |  |
|  |  | S3‑222010 | LS for multi-registration impact on UE authentication | Nokia, Nokia Shanghai Bell | LS out | [Ericsson]: Since the LS outcome is dependent on the discussion in the e-mail threads of 2006, 2007, 2008, 2009, it is proposed to associate the outcome of the discussion of these CRs with this LS. In other words this LS should not be automatically agreed if any of these contributions are not pursued.  [Huawei]: The LS needs to be reviewed after conclusions in CR in 2006, 2007, 2008, 2009.  [Ericsson]: proposes to note. | not pursued |  |
|  |  |  |  |  |  |  |  |  |
|  |  | S3‑221915 | Activation of UP IP in SgNB | Ericsson | CR | [Huawei] Propose to merge in 2062, move the discussion there and close this thread.  [Ericsson] We are fine with merging S3-221915 into 2062, and close this thread. | merged | 062 |
|  |  | S3‑222062 | Alignment with RAN3 LS for EN-DC for UPIP | Huawei, HiSilicon | CR | [Huawei] provide r1  [Ericsson] we are fine with r1 | agreed | R1 |
|  |  |  |  |  |  |  |  |  |
|  |  | S3‑221918 | Alignment of NAS transport protocol for 5G-RG over Wireline | Ericsson | CR | [Nokia] Provide minor comments  [Qualcomm] Provides comment on coversheet  [Ericsson] Provides r1  [Nokia] fine with the R1.  [Qualcomm] OK with r1 | agreed | R1 |
|  |  | S3‑221919 | Alignment of NAS transport protocol for 5G-RG over Wireline | Ericsson | CR |  | agreed |  |
|  |  | S3‑221932 | Clarification on the authorzation of NF Service Consumers for data access via DCCF for R17 | Huawei, Hisilicon | CR |  | agreed |  |
|  |  | S3‑221959 | Rel-15 Correcting the OAuth 2.0 roles in CAPIF | Ericsson | CR | [Lenovo] : Needs clarification before approval. | not pursued |  |
|  |  | S3‑221960 | Rel-16 Correcting the OAuth 2.0 roles in CAPIF | Ericsson | CR | [Lenovo] : Needs clarification before approval. | not pursued |  |
|  |  | S3‑221961 | Rel-17 Correcting the OAuth 2.0 roles in CAPIF | Ericsson | CR | [Nokia]: agrees with the issue, but has doubts that the proposed CR is the right way to address the issue.  [Nokia]: Sorry, wrong agenda item in the subject. Please ignore previous message.  [Xiaomi]: provides some comments.  [Ericsson] : provides clarification  [Nokia] : does not object to contribution  [Lenovo] : Needs clarification before approval.  [Ericsson]: provides clarification and request suggestion | Agreed? |  |
|  |  | S3‑221962 | Correction and clarification in user consent requirements | Ericsson | CR | [Huawei]: Disagree with this change, don’t think this is correct understanding.  [Samsung]: Objects with the changes proposed in this CR and requests clarification.  [Ericsson]: provides clarification | not pursued |  |
|  |  | S3‑221963 | Addressing authorization for EDGE-9 | Ericsson | CR | MCC commented that a missing feature was not necessarily a correction. This might be cat-B and probably to be better addressed in Rel-18.  [Ericsson]: responds  MCC commented that rather than fixing a security vulnerability this CR was adding a new security procedure.  >>CC\_4<<  [Huawei] presents current status.  MCC comments as R-17 CR, it may cause requirement with no solution. So it is concern. It can’t be a Cat-F CR, but Cat-B. As Cat-B CR, it should be R-18 CR.  [Interdigital] clarifies. In last meeting, Interdigital sends R-18 CR, it comments to re-send as R-17 CR. Now it is R-17 CR but requires as R-18 CR.  Chair clarifies to have a minor solution for Rel-17 and discuss a full fledged solution in Rel-18  [Huawei] proposes to have a minor change on local policy in R17, and make others as R18 study.  >>CC\_4<<  [IDCC]: Cannot accept the original text in contribution 221963 | not pursued |  |
|  |  | S3‑221965 | Corrections and clarifications on the usage of HTTPS and X.509 certificates | Ericsson | CR |  | agreed |  |
|  |  | S3‑222037 | EDGE-9 and Interface Between EASs Security | InterDigital Communications | CR | [Ericsson]: Current form of the contribution is not acceptable. Proposes to merge into 1963.  MCC commented that this case was similar to the CR in tdoc 963. It also stated a cat-C on the cover as opposed to cat-F in tdoc 963.  [IDCC] Response to MCC comment  [IDCC]: Agree to merge into 1963 with the following points.  [IDCC] Merged tdoc 963 and 037  [Ericsson]: provided merged version is not ok, prefers original version of 221963  [Huawei] : not fine with r1, but can accept the original version of 221963. | not pursued |  |
|  |  | S3‑221966 | Correction on the implementation of CR 0013 (S3-220917) | Ericsson | CR |  | agreed |  |
|  |  | S3‑221977 | Confidentiality protection of SMS content over N32 | NTT DOCOMO INC. | CR | >>CC\_2<<  [NTT Docomo] presents, this is a straightforward issue and fix.  >>CC\_2<< | agreed |  |
|  |  | S3‑222002 | Correction figure in ProSe Discoervery in TS33.303(R15) | China Telecom Corporation Ltd. | CR | >>CC\_2<<  [China Telecom] presents.  Chair asks whether it is FASMO issue.  [NTT Docomo] comments not in favor of changing past releases.  [VF] doesn’t agree to change R15 specs.  [QC] comments, only figure change needed, text is clear.  [VF] it is not essential change, so it can go in later releases not in Rel-15/16/17..  >>CC\_2<<  MCC pointed out some issues on the cover pages of this CR and the mirrors.  [ChinaTelecom] ask question about WID.  [ChinaTelecom] ask question about WID.  [ChinaTelecom]: provide clarification about questions from conference call.  [ChinaTelecom]: provide r1 and ask for comments.  [Qualcomm]: Ok with making the change in Rel-17 | not pursued |  |
|  |  | S3‑222003 | Correction figure in ProSe Discoervery in TS33.303(R16) - mirror | China Telecom Corporation Ltd. | CR |  | not pursued |  |
|  |  | S3‑222004 | Correction figure in ProSe Discoervery in TS33.303(R17) - mirror | China Telecom Corporation Ltd. | CR |  | agreed | R1 |
|  |  | S3‑222016 | Discussion on the authentication result removal operation | Ericsson | discussion | >>CC\_1<<  [Ericsson] presents  [Nokia] doesn’t fully agree with this.  [VF] comments  [Ericsson] clarifies  >>CC\_1<<  [Huawei] propose to note | noted |  |
|  |  | S3‑222017 | LS on AUSF and UDM authentication result service operation | Ericsson | LS out | [Nokia] Ask for clarification  [Huawei] propose to note since we don’t see any security threat on this feature.  [Nokia] After conf call clarification, Nokia agreed on the issue raised in LS/discussion with some changes  [Ericsson]: provides some clarifications, requests for the LS to be sent.  [Nokia] Nokia agrees on sending the LS and proposes wording changes  [Ericsson]: Provides r1.  [Nokia] Nokia is fine with r1  [Huawei]: disagree with Ericsson’s statement about the SA3’s work on this key issue, propose to note. | noted |  |
|  |  | S3‑222047 | Update IPSec reference from obsolete RFC 7296 to RFC 8247 | Intel | CR | [Intel]: Uploaded r1 to correct Title of CR  [Intel]: Uploaded r1 to correct Title of CR  [Qualcomm]: RFC 8221 is already reference [70] and referred to for ESP algorithms  [Intel]: Uploaded r2 | agreed | R2 |
|  |  | S3‑222048 | Update IPSec reference from obsolete RFC 7296 to RFC 8247 | Intel | CR | [Huawei] asks for clarifications  [Intel] provides clarification and agrees to revise in r1  [Intel] Uploaded r1  [Huawei] propose an alternative approach  [Intel] proposes a minor change to HW’s proposal  [Huawei] ask for alrification  [Intel] Uploaded r2 with note  [Huawei] fine with r2 | agreed | R2 |
|  |  | S3‑222059 | Discussion on Kiab handling in IAB migiration | Huawei, HiSilicon | discussion | >>CC\_1<<  [Huawei] presents.  >>CC\_1<<  [Huawei]: Based on the discussion in S3-222060, this contribution can be noted. | noted |  |
|  |  | S3‑222060 | CR on Kiab handling in IAB migiration | Huawei, HiSilicon | CR | [Samsung]: Clarification needed before approval.  [Qualcomm]: Also question why old key can not be used  [Huawei]: provides clarification.  [Samsung]: Comments on clarification  [Huawei]: provides feedback.  [Ericsson]: provides comments  [Huawei]: provides clarification  [Qualcomm]: agree with Ericsson/Huawei proposal to postpone the issue until next meeting | not pursued |  |
|  |  | S3‑222061 | LS on Kiab handling in IAB migiration | Huawei, HiSilicon | LS out | [Huawei]: Based on the discussion in S3-222060, this contribution can be noted. | noted |  |
|  |  | S3‑222088 | Address EN for UC3S | Huawei, HiSilicon,Nokia, Nokia Shanghai Bell | CR | [Ericsson] : Asks for clarification  [NOKIA] : provides clarification.  [Huawei]: provide more clarification.  [Ericsson]: supports formulation provided by Nokia  [Huawei]: provide r1 with minor change.  [Nokia]: requests mandatory phrase. this is not minor.  [Ericsson]: asks to make the user consent request mandatory before approval.  [Huawei]: provides r2 according to the comments.  [Ericsson]: accepts r2  [Nokia]: -r2 is ok | agreed | R2 |
|  |  | S3‑222097 | Address UPIP forward compability issue | Huawei, HiSilicon | CR | [Qualcomm]: CR requires changes before it is acceptable. Provides r1 that addresses our comments.  [Huawei] provide r2  MCC pointed out that this CR was not valid because it had been reserved for another specification (TS 33.401). The CR number corresponded to TS 33.401. MCC suggested to not pursue the document, but a new CR could be reserved copying the same content.  [Qualcomm]: fine with r2.  [Huawei] agree to MCC proposal  [Huawei] clarify that the CR was correctly reserved for TS 33.401 but coversheet was wrong and provide r3  [Ericsson] propose to note  [Huawei] request clarifications  [Ericsson] provides comments | not pursued |  |
|  |  | S3‑222123 | clarification on the internal authentication and an external authentication | Huawei, HiSilicon | CR | [Nokia]: Changes needed before acceptable.  [Xiaomi]: provides some comments.  [Ericsson]: Proposing changes  [Huawei]: provides revision.  [Nokia]: Nokia accepts R2.  [Ericsson]: r2 is ok  [Xiaomi]: r2 is ok | agreed | R2 |
| R2 |  | S3‑222133 | Correction of Transport security protection for MSGin5G interfaces | China Mobile | CR | [Ericsson]: proposes changes.  MCC pointed out issues on the cover page.  [CMCC]: provides r1.  [Ericsson]: is fine with r1. | agreed | R1 |
|  |  | S3‑222192 | 33401CR - Clarification on NAS COUNT usage in KeNB derivation | Apple | CR | >>CC\_2<<  [Apple] presents.  [Huawei] doesn’t agree with this. The note is not needed.  [Apple] clarifies.  [Nokia] comments that is an editorial CR, not FASMO.  >>CC\_2<<  [Huawei]: proposes to note the contribution.  [Apple]: The change in this CR is necessary.  MCC pointed out that the category should be F on the cover page. | not pursued |  |
|  |  | S3‑222193 | 33501CR - Clarification on NAS COUNT usage in KeNB derivation | Apple | CR | [Huawei]: proposes to note the contribution.  [Apple]: The change in this CR is necessary.  [Huawei]: provides response.  MCC commented that the category should be F. The term “4G” should be replaced with a 3GPP term (e.g. LTE, EPS,.). The NOTE cannot be normative (“should”), so it needs to be plain text. | not pursued |  |
|  |  | S3‑222194 | 33501\_s1n1\_idlemode\_mapped\_ctxt | Apple | CR | [Huawei]: clarification is needed before approval.  MCC queried about the Release, since the document was reserved for Rel-17 but the cover stated Release 15. The reference to TS 24.501 in clause 2 was missing and there was a typo in the text. Replace “in 3GPP 24.501” with “ in TS 24.501 [x]”.  [Huawei]: propose to note the contribution.  [Apple]: Ok to note for this meeting. | not pursued |  |
|  |  | S3‑222195 | 33501CR on fast reauthentication | Apple | CR | [Huawei]: does not agree with the change.  [Huawei]: does not agree with the change.  [CableLabs]: provide clarification and request to remove NOTE1.  [Apple] : reply to Huawei’s comments. Ok to remove this NOTE1.  [Chair] : SA3 have discussed this EAP re-authentication several times in the past and didn’t agree, because EAP re-authentication will introduce critical vulnerability in the primary authentication procedure. We can not afford to do that. That will also make the two Primary Auth protocols, 5G AKA behave different from EAP-AKA’. Please check the historical discussions and refrain from playing with this NOTE, which is applicable only for EAP-AKA’.  [CableLabs] : Request clarification from the chair.  [Chair]: We cannot allow EAP-AKA’ fast re-authentication for the primary authentication. If you want to propose alternative text for the highlighted sentence and the NOTE, please feel free to suggest.  [Huawei]: postpone this contribution or revision is needed.  [CableLabs]: proposed revision.  [Huawei]: reply.  [CableLabs]: provide further clarification.  [Apple]: provide concrete proposal to capture the concerns and suggestions.  [Huawei]: reply.  MCC reminded that NOTEs were informative in nature, so they cannot include recommendations or requirements.  [Qualcomm]: proposes to not pursue. Explains the rationale.  [Cablelabs]: provide comments and propose changes.  [Qualcomm]: responds to Cable Labs.  [CableLabs]: provides comments to Qualcomm.  [Qualcomm]: responds to Cable Labs | not pursued |  |
|  |  | S3‑221907 | Clarification to multiple registrations in different PLMNs | Ericsson | CR |  | revised | [S3‑222255](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-08-19_20h14.htm#RANGE!S3-222255) |
|  |  | S3‑221908 | Discussion paper on multiple registrations in different PLMN’s and different access types | Ericsson | discussion |  | revised | [S3‑222257](file:///C:\Users\cmcc\Desktop\AgendaWithTdocAllocation_2022-08-19_20h14.htm#RANGE!S3-222257) |
|  |  | S3‑222055 | clarification on the internal authentication and an external authentication | Huawei, HiSilicon | CR |  | withdrawn |  |
| 5 | Rel-18 Studies |  |  |  |  |  |  |  |
| 5.1 | Study on 5G security enhancement against false base stations |  |  |  |  |  |  |  |
| 5.2 | Study on Security Impacts of Virtualisation |  |  |  |  |  |  |  |
| 5.3 | Study on Security Aspects of Proximity Based Services in 5GS Phase 2 | S3‑221839 | Key issue for secure ProSe multi-path transmission for UE-to-Network relay | Samsung | pCR | [Ericsson] : provides comments  [Xiaomi]: provides comments  [Samsung]: Provides Clarification  [Nokia]: ask question  [Samsung]: provides r1  [Qualcomm]: provides comments and requires a revision  [Xiaomi]: provides comments and merging proposal  [Samsung]: provides r2  [CATT]: Object to this KI proposal if there are no threats and security requirements. KI security analysis is also not clear enough.  [Samsung]: Not fair to object at last moment without discussing in prior.  [CATT]: We cannot accept a KI without threats and security requirements.  [Huawei, HiSilicon]: Agree with Samsung. Simply note the KI may delay the SID progress.  [Rapporteur]: Companies can bring KI proposals and corresponding solutions at the same time. | available |  |
|  |  | S3‑221929 | New Key Issue on path switching between different N3IWFs | KPN N.V. | pCR | [Nokia]: suggest to check with SA2  [KPN:] provides response on checking with SA2  [Qualcomm]: proposes to note this contribution  [KPN]: provides response to Qualcomm  [KPN]: concludes that contribution has to be noted after response from SA2. | available |  |
|  |  | S3‑222052 | Update of KI#2 | OPPO | pCR | [Interdigital] : provide suggestion.  [KPN:] Tries to clarify need for E2E security.  [Philips] comments.  [OPPO] : accepts Inter Digital suggestion and provides r1.  [Philips] : thanks for the revision and agrees that it is a good idea to make the assumption clear. Comments on the assumption.  [KPN]: requires changes  [OPPO]: provides reply to KPN and Philips.  [KPN]: maintains objection unless interpretation of term ‘trust’ in ‘trusted entity’ is added  [OPPO]: provides reply to KPN.  [Interdigital] : OK with r1.  [Philips] comments.  [OPPO] comments.  [KPN]: provides response | available |  |
|  |  | S3‑222053 | New KI on U2U relay protection of remote UE traffic | OPPO | pCR | [Huawei] : clarification is needed before approval.  [OPPO] : provide clarification.  [Philips] Provides opinion.  [OPPO] agrees with Philips.  [Interdigital] request clarifications.  [KPN:] Argues that E2E security is needed.  [OPPO] provides r1 to address comments received.  [Huawei] : further revision is needed.  [Xiaomi] request clarifications.  [Qualcomm]: disagree with the contribution  [KPN]: proposes changes  [OPPO]: provide r2 based on feedback.  [KPN]: agrees with -r2  [Interdigital]: one editorial request. OK with the rest.  [OPPO]: accepts Interdigital proposed change and provides r3.  [Interdigital]: OK with r3.  [Xiaomi]: OK with r3.  [KPN]: agrees with -r3 | available |  |
|  |  | S3‑222081 | New Key Issue on Security and privacy of path switching between two indirect network communication paths for UE-to-Network Relaying | Huawei, HiSilicon | pCR | [Ericsson] : provides comments  [Huawei, HiSilicon]: reply to Ericsson.  [Nokia]: provide comments  [Huawei, HiSilicon]: provides clarification and propose to use another thread.  [Huawei, HiSilicon]: reply to the comments.  [Ericsson]: we are fine with r1  [CATT]: Object to this KI proposal if there are no threats and security requirements. KI analysis is also not clear enough.  [Huawei, HiSilicon]: Simply note the KI gives no help to the SID progress. Asks CATT to reconsider their poistion.  [Huawei, HiSilicon]: Ask if r1 is fine.  [Rapporteur]: Companies can bring KI proposals and corresponding solutions at the same time.  [Nokia]: Technically, we’re OK with the content. | available |  |
|  |  | S3‑222082 | New Key Issue on Security and privacy of path switch between L2 U2NW and direct connections | Huawei, HiSilicon | pCR | [Ericsson] : provides comments  [ChinaTelecom] : Share the same concerns with Ericsson  [Huawei, HiSilicon] : reply to the comments.  [Interdigital] : propose to postpone.  [Nokia]: provide comments  [Huawei, HiSilicon]: provide r2.  [Ericsson]: we are fine with r2  [Interdigital] : OK with r2  [CATT]: Object to this KI proposal if there are no threats and security requirements. KI analysis is also not clear enough.  [Huawei, HiSilicon]: Simply note the KI gives no help to the SID progress. Asks CATT to reconsider their poistion.  [Rapporteur]: Companies can bring KI proposals and corresponding solutions at the same time.  [Huawei, HiSilicon]: Ask if r2 is fine.  [Nokia]: Technically, we’re OK with the content.  [ChinaTelecom]: provides response. | available |  |
|  |  | S3‑222083 | New Key Issue on Security and privacy of multi-path transmission for UE-to-Network Relay | Huawei, HiSilicon | pCR | [Ericsson] : provides comments  [Xiaomi]: provides comments and proposes to merge with 1839  [Huawei, HiSilicon]: provides reply.  [Nokia]: ask clarification.  [Huawei, HiSilicon]: provides clarification and propose to use another thread.  [Ericsson]: we are fine with r1  [CATT]: Object to this KI proposal if there are no threats and security requirements. KI analysis is also not clear enough.  [Huawei, HiSilicon]: Simply note the KI gives no help to the SID progress. Asks CATT to reconsider their poistion.  [Rapporteur]: Companies can bring KI proposals and corresponding solutions at the same time.  [Huawei, HiSilicon]: Ask if r1 is fine.  [Nokia]: Technically, we’re OK with the content. | available |  |
|  |  | S3‑222188 | New key issue on Identity verification for UE-to-UE relay scenarios | OPPO | pCR | [Qualcomm]: proposes to note this contribution (a new KI is not needed as existing KI covers it).  [OPPO]: Agree to note this contribution based on common understanding | available |  |
|  |  | S3‑221763 | New Solution for Security of Layer-2 based UE-to-UE Relay | InterDigital, Europe, Ltd. | pCR | [Huawei] : clarification is needed before approval.  [Interdigital] : replies.  [Philips] asks questions and potentially, requests changes.  [KPN:] Argues that E2E security is needed.  [Huawei] : provide clarification.  [Interdigital] : provide r1 and replies below.  [Interdigital] : provide r2.  [KPN]: agrees with -r1  [Interdigital] : provide r3 with EN to track Philips’ comment on the figure.  [Huawei] : propose to noted.  [Interdigital] : ask Huawei to reconsider position  [Huawei] : no change to the position | available |  |
|  |  | S3‑221764 | New solution: Restricted Peer UE IP Discovery with Layer-3 UE-to-UE Relay | InterDigital, Europe, Ltd. | pCR | [Huawei] : clarification is needed before approval.  [Interdigital] : replies.  [Philips] asks a question, and potentially, requires changes.  [Ericsson] provides comments.  [Huawei] : further questions.  [Interdigital] : provides r1 and replies.  [Philips] ok with r1.  [Huawei] : propose to noted.  [Qualcomm]: provides comments and requires a clarification before approval  [Interdigital]: replies to Huawei and Qualcomm. Asks Huawei to reconsider  [Huawei] : can live with r1  [Interdigital] : thanks Huawei for confirmation. Ask Qualcomm to confirm  [Qualcomm]: is not ok with original contribution and r1 (not convincing with the provided clarification) | available |  |
|  |  | S3‑221765 | New solution: Privacy for Layer-3 UE-to-UE Relay based on IP routing | InterDigital, Europe, Ltd. | pCR | [Qualcomm]: provides comments and requires a clarification before approval  [Qualcomm]: asks a question and requires clarifications before approval  [Interdigital]: replies  [Qualcomm]: requires revision before approval  [Interdigital]: provides r1  [Qualcomm]: is fine with r1 | available |  |
|  |  | S3‑221831 | A new solution for security mechanism for UE-to-UE Relay discovery | Qualcomm Incorporated | pCR | [Interdigital] : revision required before approval.  [Ericsson] : ask question  [Huawei, HiSilicon]: this contribution requires revision/clarification before approval.  [OPPO]: propose to NOTE.  [Qualcomm]: provides clarifications and r1.  [Huawei, HiSilicon]: fine with r1.  [Interdigital]: revision required.  [Qualcomm]: provides clarification to Interdigital  [Interdigital]: propose to update the EN to be approved  [Qualcomm]: provides r2  [Ericsson]: fine with both r1 and r2  [Huawei, HiSilicon]: fine with both r1 and r2  [Qualcomm]: asks OPPO to reconsider the position (no remaining open issues in this contribution)  [Interdigital]: OK with r2 | available |  |
|  |  | S3‑221832 | A new solution for security mechanism for UE-to-UE Relay discovery in case of multiple ProSe services for an RSC | Qualcomm Incorporated | pCR | [Xiaomi]: Ask for clarification  [Interdigital] : revision required before approval.  [OPPO]: propose to NOTE.  [Qualcomm]: provides clarifications and r1.  [Xiaomi]: Ask for clarification  [ChinaTelecom]: proposes to postpone.  [Interdigital]: revision required | available |  |
|  |  | S3‑221833 | A new solution for secure PC5 link establishment for UE-to-UE relay | Qualcomm Incorporated | pCR | [Xiaomi]: Ask for clarification  [Huawei] : clarification is needed before approval.  [Interdigital] : revision required before approval.  [KPN:] Argues that E2E security is needed.  [OPPO]: propose to NOTE.  [Qualcomm]: provides clarifications and r1 addressing all the comments  [Huawei]: fine with r1  [Xiaomi]: Ask for clarification  [Interdigital] : update solution title to reflect L3 solution  [Qualcomm]: asks a question to Xiaomi  [Qualcomm]: provides r2  [Xiaomi]: ask to add one EN  [Qualcomm]: provides r3  [Xiaomi] OK with r2. | available |  |
|  |  | S3‑221912 | New solution for PC5 link security when UE-to-UE relay is in coverage | Ericsson | pCR | [Huawei] : clarification is needed before approval.  [Interdigital] : revision required before approval.  [Philips] Asks questions. Requires clarification.  [KPN:] Argues that E2E security is needed.  [Xiaomi]: clarification is needed before approval.  [Ericsson:] r1 is available  [Philips] ok.  [Huawei] : propose two more editor’s Note against r1.  [Xiaomi] general ok with r1 and provide comments.  [KPN]: agrees with -r1  [Interdigital] : OK with r1.  [Qualcomm] : requires revision before approval  [Ericsson] : r1 is available  [Ericsson] : r2 is available  [KPN]: agrees with -r2  [Qualcomm]: is fine with r2 | available |  |
|  |  | S3‑221913 | New solution for PC5 link security when UE-to-UE relay is out of coverage | Ericsson | pCR | [Huawei] : clarification is needed before approval.  [Interdigital] : revision required before approval.  [Philips] comments and asks for clarification.  [KPN:] Argues that E2E security is needed.  [Ericsson:] r1 is available and provides comments  [Huawei] : propose two more editor’s Note.  [Philips] OK with r1.  [Ericsson] : asks question about one of the EN’s.  [Ericsson] : provides clarification.  [KPN]: agrees with -r1  [Ericsson] : provides r2  [Ericsson] : fine with r2.  [KPN]: agrees with -r2  [Interdigital] : OK with r2.  [Qualcomm]: requests further revision in r2 before approval  [Ericsson] : r3 is available  [KPN]: agrees with -r3  [Qualcomm]: is fine with r3 | available |  |
|  |  | S3‑221921 | Solution for PC5 link security establishment for U2U Relay | China Telecom Corporation Ltd. | pCR | [Interdigital] : revision required.  [Huawei, HiSilicon]: requires clarification and revision before approval.  [Xiaomi]: Ask for clarification  [Huawei, HiSilicon]: resend the comments. requires clarification and revision before approval.  [KPN:] Argues that E2E security is needed.  [ChinaTelecom]: provide clarification.  [ChinaTelecom]: provide r1.  [Huawei, HiSilicon]: provide comment to r1.  [ChinaTelecom]: provide r2.  [Huawei, HiSilicon]: fine with r2.  [Xiaomi]: can live with r2  [KPN]: agrees with -r2  [Interdigital] : OK with r2.  [Qualcomm]: requests a revision before approval  [ChinaTelecom]: provide clarification and r3.  [KPN]: agrees with -r3  [Qualcomm]: is fine with r3 | available |  |
|  |  | S3‑221924 | New Solution UE-to-UE security | Philips International B.V. | pCR | [Interdigital] Request clarification.  [Xiaomi]: clarification is needed before approval.  [Philips] comments.  [Interdigital] ask for EN.  [Philips] includes EN and provides r1.  [Qualcomm]: requests a revision before approval  [Philips] provides r2.  [Interdigital] OK with r2.  [Xiaomi] OK with r2.  [Qualcomm]: fine with r2. | available |  |
|  |  | S3‑221926 | Solution for U2U Relay (model A) discovery security | China Telecom Corporation Ltd. | pCR | [Huawei, HiSilicon]: This needs clarification before approval.  [ChinaTelecom]: provide clarification.  [Qualcomm]: proposes to note this contribution and come back with a solution details in the next meeting | available |  |
|  |  | S3‑221930 | Solution for U2U Relay (model B) discovery security | China Telecom Corporation Ltd. | pCR | [Qualcomm]: proposes to note this contribution and come back with a solution details in the next meeting | available |  |
|  |  | S3‑221969 | New solution on authentication procedure of UE-to-UE relay | OPPO | pCR | [Huawei] : clarification is needed before approval.  [OPPO] : provide clarification and revision 1  [Interdigital] : request clarifications  [OPPO] : provide clarifications  [Huawei] : further clarification.  [Interdigital] : share same concerns as Huawei on incompatibility with existing V2X/Prose security procedures. Propose to note. | available |  |
|  |  | S3‑222054 | New Solution on security negotiation of U2U relay protection of remote UE traffic | OPPO | pCR | [Qualcomm]: proposes to note this contribution  [OPPO]: provides reply to Qualcomm. | available |  |
|  |  | S3‑222189 | New solution on end-to-end security establishmet for UE-to-UE relay | OPPO | pCR | [Huawei] : clarification is needed before approval.  [OPPO] : provide clarification  [ChinaTelecom] : provide comments and request clarification.  [OPPO] : provide clarification  [ChinaTelecom] : provide response.  [Interdigital] : revision required  [OPPO] : provide further clarification and revision 1  [Huawei] : further clarification is needed.  [OPPO] : Provide further clarification  [Huawei] : replies.  [OPPO] : Provide revision 2  [Interdigital] : repost in thread with incorrect group ‘KI’. revision required  [Huawei] : fine with r2.  [OPPO] : provide clarification and revision in the correct thread  [ChinaTelecom] : fine with R3  [Interdigital] : OK with R3 | available |  |
|  |  | S3‑222216 | New solution on Network-assisted Security Establishment Procedure for 5G ProSe Layer-3 UE-to-UE Relay | Beijing Xiaomi Mobile Software | pCR | [ChinaTelecom] : provide comments.  [Xiaomi]: provide responses  [Philips] asks questions.  [Xiaomi]: provide responses  [KPN:] Argues that E2E security is needed.  [Interdigital]: revision required  [Philips] replies.  [ChinaTelecom] request further clarification.  [Xiaomi]: provide responses  [Xiaomi]: provide r1  [Interdigital]: revision required  [Xiaomi]: provide r2  [ChinaTelecom]: OK with r2.  [Interdigital]: OK with r2  [Qualcomm]: requests further revision before approval  [Xiaomi]: provide r3  [Qualcomm]: is fine with r3 | available |  |
|  |  | S3‑222217 | New solution on Non-network-assisted Security Establishment Procedure for 5G ProSe Layer-3 UE-to-UE Relay | Beijing Xiaomi Mobile Software | pCR | [Interdigital]: revision required  [KPN:] Provides clarification on the term long term credential.  [Xiaomi]: provide responses  [Xiaomi]: provide r1  [Interdigital]: revision required  [Xiaomi]: provide r2  [Interdigital]: OK with r2  [Qualcomm]: requests further revision before approval  [Xiaomi]: provide r3  [Qualcomm]: is fine with r3 | available |  |
|  |  | S3‑222218 | New solution on Restricted 5G ProSe UE-to-UE Relay Discovery Model A | Beijing Xiaomi Mobile Software | pCR | [Huawei, HiSilicon]: this contribution requires revision/clarification before approval.  [Xiaomi]: Provide response and provides R1  [Xiaomi]: check if r1 is ok  [Qualcomm]: requests a revision before approval  [Xiaomi]: provide r2  [Qualcomm]: is fine with r2 | available |  |
|  |  | S3‑222219 | New solution on Restricted 5G ProSe UE-to-UE Relay Discovery Model B | Beijing Xiaomi Mobile Software | pCR | [Huawei, HiSilicon]: this contribution requires revision/clarification before approval.  [Xiaomi]: Provide response and provides R1  [Xiaomi]: check if r1 is ok  [Qualcomm]: requests a revision before approval  [Xiaomi]: provide r2  [Qualcomm]: is fine with r2 | available |  |
|  |  | S3‑221927 | Architectural assumption on out-of-coverage operation of UE-to-UE relay | Philips International B.V. | pCR | [Qualcomm]: propose to note this contribution  [Philips] disagrees.  [Philips] provides additional background information and asks to reconsider the objection.  [Interdigital] supports this contribution.  [Philips] Thanks for the support. Asks Qualcomm to reconsider position.  [Qualcomm]: is fine with this contribution. | available |  |
|  |  | S3‑221971 | New solution on end-to-end security establishmet for UE-to-UE relay | OPPO | pCR | [ChinaTelecom] : discuss s3-221971 in s3-222189 thread.  [OPPO] : S3-221971 is withdrawn. | withdrawn |  |
|  |  | S3‑221979 | new KI on Identity verification for UE-to-UE relay scenarios | OPPO | pCR |  | withdrawn |  |
| 5.4 | Study on privacy of identifiers over radio access |  |  |  |  |  |  |  |
| 5.5 | Study on Standardising Automated Certificate Management in SBA |  |  |  |  |  |  |  |
| 5.6 | New SID on AKMA phase 2 |  |  |  |  |  |  |  |
| 5.7 | Study of Security aspect of home network triggered primary authentication |  |  |  |  |  |  |  |
| 5.8 | Study on security aspects of enablers for Network Automation for 5G – phase 3 |  |  |  |  |  |  |  |
| 5.9 | Study on Security Enhancement of support for Edge Computing — phase 2 |  |  |  |  |  |  |  |
| 5.1 | Study on Personal IoT Networks Security Aspects | S3‑221782 | New subclause - Assumptions for PIN | InterDigital, Inc. | pCR | [Thales]: proposes a change.  [Huawei]: ask for clarification  [Interdigital]: Provides clarification and uploads R1 with accepted Thales’s proposal.  [Nokia]: Proposes to note, since a lot of assumptions are made which are outside of SA3 scope.  [Thales]: asks for removal of last paragraph.  [Interdigital]: Provides clarification and uploads R2 with accepted Thales’s proposal.  [Thales]: is fine with r2.  [Nokia]: Still proposes to note. | available |  |
|  |  | S3‑221892 | Add terms and abbreviations to TR 33.882 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑221779 | New key issue on Protecting Identification of PIN and PIN Privacy | InterDigital, Inc. | pCR | [Qualcomm]: requests clarifications.  [Qualcomm]: propose to note/postpone to the next meeting.  [Interdigital]: Apologises for the inadvertent delay with the response and provides clarification to Qualcomm.  [Qualcomm]: responds | available |  |
|  |  | S3‑221780 | New key issue on Security of Discovery of PINE and PIN | InterDigital, Inc. | pCR | [Qualcomm]: clarification needed  [Thales]: asks questions for clarification.  [Qualcomm]: propose to note/postpone to the next meeting.  [Interdigital]: Oks posponing. | available |  |
|  |  | S3‑221783 | New key issue on Secure Communication between PINEs | InterDigital, Inc. | pCR | [Qualcomm]: corrects tdoc# in the email title. Requires clarifications before it is acceptable.  [Interdigital]: Provides clarification to QC.  [Qualcomm]: requests further clarification.  [Qualcomm]: proposes to note.  [Thales]: proposes to note.  [Interdigital]: Provides further clarification to QC stating that this proposed KI is about securing communications between PINEs while S3-221784 is about secure parameters provisioning. | available |  |
|  |  | S3‑221792 | New Key Issue for security protection on parameters requested from PEMC that will be provisioned to PEGC | vivo | pCR | [Interdigital]: Remove “key management” from the requirement and merge with S3-221784 and use S3-221784 as the baseline for the PCR.  [Qualcomm]: needs clarifications.  [Thales]: provides comments.  [vivo]: replies | available |  |
|  |  | S3‑221784 | New key issue on Secure policy and parameters provisioning for PIN | InterDigital, Inc. | pCR | [Qualcomm]: needs clarifications  [Thales]: asks for changes.  [IDEMIA]: requires changes  [Orange]: Changes are required.  [Interdigital]: asks to substantiate the need for changes.  [Interdigital]: asks to substantiate the need for changes.  >>CC\_4<<  [Interdigital] presents.  [Thales] has concerns on this issue.  [Interdigital] clarifies.  [Thales] has further comments, wants to remove text regarding ‘credetials’.  Discussion between Interdigital and Thales.  Chair asks questions to Interdigital and Thales.  [Orange] comments SA1 and SA2 text regarding authentication and credential storage etc is very generic not reliable..  [IDEMIA] comments. Proposes to remove credential provisioning related text.  Chair asks whether credential provisioning text could be removed or not.  [Interdigital] would like to keep the description from SA1/2.  [QC] comments  [Intedigital] clarifies.  Chair requests to remove credential provisioning text to move ahead.  [Orange] comments further. >>CC\_4<<  [Interdigital]: R1 incorporates changes based on the decision reached at SA3#108-e Thursday call. R1 is available in Drafts  [Interdigital]: Notes that R1 also contains minor editorial (typos and readability) changes represented by change bars.  [Thales]: proposes a change.  [Interdigital : Uploads R2 containing the change that Thalles required.  [Thales]: is fine with r2.  [Qualcomm]: still needs clarification before r2 is acceptable  [Qualcomm]: propose to note.  [Interdigital]: Provides clarification sought by QC by referring to KI #6 in SA2 TR 23.700-86.  [Qualcomm]: responds to the clarification.  [Interdigital]: Provides additional clarification and asks QC to stop blocking the KI. | available |  |
|  |  | S3‑221793 | New Key Issue for controlling credential downloading to PINE | vivo | pCR | [Interdigital]: Remove the second paragraph of Requirements, 'After credential downloading, the 5GC shall be able to link the PINE with the 3GPP subscription of the PEGC where the credential is downloaded via.' as having nothing to do with requirements.  Merge with S3-221784 and use S3-221784 as the baseline for the PCR.  [Thales]: proposes to note.  [IDEMIA]: Proposes to note.  [Orange]: To be noted. | available |  |
|  |  | S3‑221805 | New Ki related to authorization of exposed PIN capabilites | Nokia, Nokia Shanghai Bell | pCR | [Interdigital]: Clarification and changes are needed before approval.  [Qualcomm]: fine with the KI but suggest rewording of the requirements.  [Nokia]: Appreciates comments and provides r1. | available |  |
|  |  | S3‑221791 | Update Key Issue for authentication of PINE | vivo | pCR | [Interdigital]: propose to merge with and use S3-221781 as the baseline  [Huawei]: Propose to use S3-222064 as baseline.  [vivo]: provides r1, merge S3-221791, S3-221781, S3-221920, and S3-222064.  [Apple]: comments on r1.  [Huawei]: provides comment.  [Qualcomm]: does not agree with this merged doc  [vivo]: provides r2  [Philips] comments. Agrees on r1 and r2. But definitively prefers r1.  [Huawei]: proposed to merge into S3-222064.  [vivo]: is OK to use S3-222064 as baseline. | available |  |
|  |  | S3‑221781 | Adding threats and requirements to KI#1 | InterDigital, Inc. | pCR | [vivo]: proposes merging S3-221781 into S3-221791.  [Qualcomm]: needs clarification.  [Qualcomm]: needs clarification.  [Qualcomm]: propose to note (or considered merged into S3-222064);  [Interdigital]: S3-221781 is already decided to be merged into S3-222064; | available |  |
|  |  | S3‑221920 | Update key issue on Authentication and authorization for PINE | Philips International B.V. | pCR | [Interdigital]: Propose to merge with S3-221781.  [Philips] Agrees to merge. Makes proposal for requirements.  [Huawei]: Propose to use S3-222064 as baseline.  [vivo]: proposes merging S3-221920 into S3-221791.  [Philips] provides opinion.  [Interdigital] Supports more specific requirements than #064 currently has.  [Qualcomm]: also prefers to use S3-222064 as the baseline for the KI update.  [Thales]: provides comments. | available |  |
|  |  | S3‑222064 | Add threat and requirement to PINE authentication | Huawei, HiSilicon | pCR | [Ericsson]: propose to merge , use S3-222064 as baseline  [Interdigital]: Propose to merge with S3-221781.  [Huawei]: Propose to use S3-222064 as baseline.  [vivo]: proposes merging S3-222064 into S3-221791.  [Qualcomm]: ok to use S3-222064 as baseline but needs changes  [Qualcomm]: correction: fine with using S3-222064 as baseline  [Huawei]: as the marjority prefer to use S3-222064 as baseline, let’s continue to discuss the issue in this thread.  [Philips] provides comments. Asks for r1.  [Huawei]: provide r1.  [Interdigital]: provides r2 with editorial changes and requirements split into separate authentication and authorization.  [Huawei]: fine with r2  [Philips] fine with r2 contents. Please, add Philips as as co-signing company.  [Huawei]: provides r3. Adding Philips as as co-signing company.  [Qualcomm]: fine with r3.  [Interdigital] Supports r3. Please, add Interdigital as as co-signing company.  [Huawei]: provides r4. Adding Interdigital as co-signing company. | available |  |
|  |  | S3‑221804 | New solution for network triggered authentication of PINE | vivo | pCR | [Interdigital]: Clarification and changes are needed before approval.  [Philips] asks questions.  [Qualcomm]: proposes to note  [vivo]: answers to Philips and Interdigital  [Thales]: proposes to postpone. | available |  |
|  |  | S3‑222065 | Solution on PINE authentication | Huawei, HiSilicon | pCR | [Interdigital]: Clarification and changes are needed before approval.  [Philips] asks questions.  [Huawei]: Provides reply and r1 {https://www.3gpp.org/ftp/tsg\_sa/WG3\_Security/TSGS3\_108e/Inbox/Drafts/draft\_S3-222065-r1.DOCX} .  [Apple]: comments  [Huawei]: provides clarification.  [Qualcomm]: proposes to note  [Philips] comments. Asks for revision. | available |  |
| 5.11 | Study on SNAAPP security | S3‑221806 | Discussion Paper on Structure of KIs | Nokia, Nokia Shanghai Bell | discussion | [NTT DOCOMO]: agree with proposal  [Xiaomi]: requests for clarification.  [Ericsson]: comments  [Nokia]: supports having a drafting session.  >>CC\_2<<  [Nokia] presents.  [Ericsson] comments.  [Huawei] comments the discussion paper changes the whole way forward, so doesn’t agree  [QC] comments, agree on case 1 and 2, case 3 not sure..  [NTT Docomo] presents current status.  [Huawei] comments it has no idea how to merge, but it is ok to find a way.  Chair suggests to have an offline call 1 hour before official call at Thursday.  [NTT Docomo] proposes to set up two conf call. One for western hemisphere today, after the official call ,and the other for asia at Thursday.  >>CC\_2<<  [NTT DOCOMO and NOKIA]: provides updates of the key issue structure, Please see SNAAPY KI Discussion folder in the draft folder:  https://www.3gpp.org/ftp/tsg\_sa/WG3\_Security/TSGS3\_108e/Inbox/Drafts/SNAAPY%20KI%20Discussion  [Qualcomm]: requests replacement of occurrences of 'consent' with 'authorization'  [Xiaomi]: provides comments.  [Ericsson]: provides comments  [Huawei]: provides comments.  [Nokia]: Prepared summary of responses to KI proposal.  >>CC\_4<<  [NTT Docomo]presents current status.  [Lenovo] clarifies  Chair requests to keep email discussion and request to annouce offline conf call meeting as early as possible  [NTT Docomo] asks how to deal other contributions, postponed?  [Huawei] postpone all contributions  [Xiaomi] key issue 1 should be discussed  [Nokia] postpone solutions  [Lenovo] comments  [Ericsson] postpone >>CC\_4<<  [NTT DOCOMO and NOKIA]: provides updates of the key issue structure, Please see SNAAPY KI Discussion folder in the draft folder:  https://www.3gpp.org/ftp/tsg\_sa/WG3\_Security/TSGS3\_108e/Inbox/Drafts/SNAAPY%20KI%20Discussion  [NTT DOCOMO and NOKIA]: provides updates of the key issue structure, Please see SNAAPY KI Discussion folder in the draft folder:  https://apc01.safelinks.protection.outlook.com/,url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2Ftsg\_sa%2FWG3\_Security%2FTSGS3\_108e%2FInbox%2FDrafts%2FSNAAPY%2520KI%2520Discussion&amp;data=05%7C01%7Csmary%40LENOVO.COM%7Cb9bd2582c6e543e63d3c08da86a6de1a%7C5c7d0b28bdf8410caa934df372b16203%7C0%7C0%7C637970348636236757%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&amp;sdata=4Vh2ZWyldOwud9PaUg46w12zSbyLk4eYCI15nq04F3k%3D&amp;reserved=0  [NTT DOCOMO and NOKIA]: provides updates of the key issue structure, Please see SNAAPY KI Discussion folder in the draft folder:  https://apc01.safelinks.protection.outlook.com/,url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2Ftsg\_sa%2FWG3\_Security%2FTSGS3\_108e%2FInbox%2FDrafts%2FSNAAPY%2520KI%2520Discussion&amp;data=05%7C01%7Csmary%40LENOVO.COM%7Cb9bd2582c6e543e63d3c08da86a6de1a%7C5c7d0b28bdf8410caa934df372b16203%7C0%7C0%7C637970348636236757%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&amp;sdata=4Vh2ZWyldOwud9PaUg46w12zSbyLk4eYCI15nq04F3k%3D&amp;reserved=0  [NTT DOCOMO]: proposes to note this discussion document. It was helpful in advancing the discussion. Propose to have a series of conference calls before next SA3 to stabilize the KI descriptions. | available |  |
|  |  | S3‑221807 | New KI on securing resource owner access to own resources | Nokia, Nokia Shanghai Bell | pCR | [Xiaomi]: provides some comments.  [Lenovo]: Propose to note this contribution.  [Ericsson]: requires revision before approval | available |  |
|  |  | S3‑221808 | New KI on securing API access from AF acting on own behalf | Nokia, Nokia Shanghai Bell | pCR | [Xiaomi]: request for clarification.  [Lenovo]: Propose to note this contribution.  [Ericsson]: requires revision before approval | available |  |
|  |  | S3‑221809 | New Ki on securing API access from subscriber to resources of other subscriber | Nokia, Nokia Shanghai Bell | pCR | [Xiaomi]: request for clarification.  [Lenovo]: Propose to note this contribution.  [Ericsson]: requires revision before approval | available |  |
|  |  | S3‑221967 | Update to key issue #1 | Ericsson | pCR | [NTT DOCOMO]: changes required  [Ericsson]: provides clarification  [Xiaomi]: provides comments.  [NTT DOCOMO]: provides more comments  [Xiaomi]: provides more inputs  [Lenovo]: Needs clarification.  [Qualcomm]: requires changes | available |  |
|  |  | S3‑221968 | A new key issue on authorization by resource owner | Ericsson | pCR |  | available |  |
|  |  | S3‑222248 | pCR to TR 33.884 on new KI on authorization revocation | NTT DOCOMO | pCR | [Ericsson]: requires update before approval  [Nokia]: provides updates in -r1  [Nokia]: comments on -r1, (which was provided by NTT Docomo).  [Xiaomi]: provides some inputs.  [Nokia]: replies to comment from Xiaomi.  [Xiaomi]: provides some inputs.  [Huawei]: propose change. | available |  |
|  |  | S3‑222249 | pCR to TR 33.884 on new KI on AF originated API invocation | NTT DOCOMO | pCR | [Ericsson]: requires clarification before approval  [Huawei]: ask for clarification before approval.  [NTT DOCOMO]: provides clarification | available |  |
|  |  | S3‑222250 | pCR to TR 33.884 on new KI on placement of authorization function | NTT DOCOMO | pCR | [Nokia]: proposes to add content of KI to other KIs.  [NTT DOCOMO]: asks for clarification  [Ericsson]: comments | available |  |
|  |  | S3‑221925 | Authentication and Authorization for UE originated API Invocation | Lenovo | pCR | [Ericsson]: requires clarification before approval  [Nokia]: proposes to note the contribution.  [Lenovo]: Provides clarifications.  [Lenovo]: r1 is provided to address Nokia’s concern.  [Nokia]: proposes to postpone.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222095 | New solution on User authorization for network exposure | Huawei, HiSilicon | pCR | [Ericsson]: requires clarification before approval  [Nokia]: proposes to note the contribution.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222240 | KI1, New Sol AKMA based UE authentication for API invoker on-boarding procedure in SNA scenarios | Xiaomi Communication | pCR | [Ericsson]: requires clarification before approval  [Xiaomi]: provides clarification and r1.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222241 | KI1,New Sol GBA based UE authentication in SNA scenarios | Xiaomi Communication | pCR | [Ericsson]: requires clarification before approval  [Xiaomi]: provides clarification and r1.  [Huawei]: ask for revision.  [Xiaomi]: provides clarification and r2.  [Huawei]: propose to postpone.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222242 | KI1, New Sol User authorization based API invocation procedure | Xiaomi Communication | pCR | [Nokia]: proposes to note the contribution.  [Xiaomi]: provides clarification and requests for technical discussion.  [Ericsson]: requires clarification before approval  [Xiaomi]: provides clarification and r1.  [Nokia]: reiterates concerns.  [Xiaomi]: provides clarification and r2.  [Huawei]: propose to postpone.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions.  [Nokia]: agrees to postpone. | available |  |
|  |  | S3‑222243 | KI1,New Sol UE credential based API invocation procedure | Xiaomi Communication | pCR | [Ericsson]: requires clarification before approval  [Xiaomi]: provides clarification.  [Huawei]: propose to add editor note.  [Xiaomi]: provides clarification.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222244 | KI1,New Sol User authorization revocation for API invocation procedure | Xiaomi Communication | pCR | [Ericsson]: requires clarification before approval  [Xiaomi]: provides clarification and r1.  [Huawei]: propose to postpone.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222245 | KI1,New Sol User resource authorization profile based API invocation procedure | Xiaomi Communication | pCR | [Nokia]: proposes to note the contribution.  [Xiaomi]: provides clarification.  [Ericsson]: requires clarification before approval  [Huawei]: propose to postpone.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions.  [Nokia]: fine to postpone. | available |  |
|  |  | S3‑222251 | pCR to TR 33.884 new solution on UE authentication | NTT DOCOMO | pCR | [Huawei]: propose to postpone or revision is needed before approval.  [Ericsson]: clarification/revision is required before approval  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑222252 | pCR to TR 33.884 new solution on non resource owner UE authorization | NTT DOCOMO | pCR | [Nokia]: proposes to note the contribution.  [NTT DOCOMO]: provides clarification  [Nokia]: provides answers to NTT Docomo  >>CC\_2<<  [NTT Docomo] presents.  [Nokia] comments.  >>CC\_2<<  [NTT DOCOMO]: more comments  [Huawei]: propose to postpone.  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions.  [Nokia]: fine to postpone. | available |  |
|  |  | S3‑222253 | pCR to TR 33.884 new solution on authenticating the triggering UE | NTT DOCOMO | pCR | [Nokia]: proposes to add this solution detail to an appropriate solution.  [NTT DOCOMO]: provides clarification and a proposal  [Ericsson]: requires clarification/update before approval  [NTT DOCOMO]: request to postpone. As discussed in the conf call #4: because the key issues are still not stable, it is proposed to postpone all solution contributions. | available |  |
|  |  | S3‑221733 | LS on CAPIF authorization roles related to FS\_SNAAPP | S6-221771 | LS in | [NTT DOCOMO]: propose to postpone as reply LS wasn't discussed. | available |  |
|  |  | S3‑222256 | draft LS reply on CAPIF authorization roles related to FS\_SNAAPP | NTT DOCOMO INC. | LS out | [NTT DOCOMO] propose to postpone | available |  |
| 5.12 | Study on enhanced security for network slicing Phase 3 | S3‑221800 | update to KI#1 | Huawei, Hisilicon | pCR | [Huawei]: r1 is available for the merger of 1800, 1917, 2237, 1894  [Ericsson]: question, changes needed  [Huawei] response to Ericsson and r2 is available  [Qualcomm] r2 requires changes before approval  [Nokia] Clarification is needed before approving the contribution  [Lenovo] Provides clarification.  r2 needs revision.  [Thales]: asks question for clarification.  [ZTE] r2 requires changes  [Xiaomi]: provides clarification and r3.  [Huawei]: fine with r3.  [Huawei] r4 is provided based on r2, taking into account all comments received so far. Further responses to Qualcomm are shown in the email thread.  [Huawei] r4 is provided based on r2, taking into account all comments received so far.  Further responses to Lenovo are shown in the email thread.  [Huawei] r4 is provided based on r2, taking into account all comments received so far.  Further response to Nokia are shown in the email thread.  [Huawei] r4 is provided based on r2, taking into account all comments received so far.  Further response to Thales are shown in the email thread.  [Huawei] response to ZTE.  [Xiaomi]: is ok to r4.  [Nokia]: Nokia is not fine with the r4.  [Xiaomi]: provides clarification.  [Thales: disagrees with r4 and proposes r5.  [Qualcomm]: OK with r5  [Lenovo]: Can accept r4 but disagrees with r5.  Provides clarifications to Thales and Nokia.  [Xiaomi]: is ok to r3 and r4.  Disagree with r5.  [Thales]: disagrees with initial version, r1, r2, r3 , r4 and provides comments.  [Huawei] discusses way forward and provides r6.  [Xiaomi] is ok to r6.  [Lenovo] Can accept r4 or r6.  Insists that all security aspects related to ‘the support of providing VPLMN slice information to roaming UE’ should be taken care by SA3.  [Thales]: disagrees with r6.  [ZTE] Agree to r4 or r6. | available |  |
|  |  | S3‑221917 | Update to KI#1 Providing VPLMN slice information to roaming UE | Lenovo | pCR | [Huawei]: agree in principle. Propose to merge 1917, 1800, 2237, 1894 into one.  [Lenovo]: Accepts to have a merger to have one common Key Issue.  [Huawei]: provides r1 under the thread 221800 (1800r1). | available |  |
|  |  | S3‑222237 | Update KI1 providing VPLMN slice information to roaming UE | Xiaomi Communication | pCR | [Huawei]: agree in principle. Propose to merge 1917, 1800, 2237, 1894 into one.  [Xiaomi]: agrees to the merging proposal.  [Huawei]: provides r1 under the thread 221800 (1800r1). | available |  |
|  |  | S3‑221894 | New KI-protecting information transfer in UE initiated slice-based SoR | ZTE Corporation | pCR | [Huawei]: agree in principle. Propose to merge 1917, 1800, 2237, 1894 into one.  [ZTE]: Agree to this merging proposal.  [Huawei]: provides r1 under the thread 221800 (1800r1). | available |  |
|  |  | S3‑221801 | update to KI#2 | Huawei, Hisilicon | pCR | [Ericsson]: proposed to note the contribution  [Huawei]: response to Ericsson  [Qualcomm]: propose the contribution is noted  [Nokia]: propose the contribution is noted | available |  |
|  |  | S3‑221802 | update to KI#3 | Huawei, Hisilicon | pCR | [Ericsson]: proposed to note the contribution  [Huawei] response to Ericsson  [Qualcomm]: requires changes before approval  [Huawei] response to Qualcomm and Ericsson.  R1 is provided.  [Qualcomm]: requires changes before approval  [Qualcomm]: clarifies previous comments  [Huawei] provides clarification and r2. | available |  |
|  |  | S3‑221893 | New KI on the Security of Network Slice Service continuity | ZTE Corporation | pCR | [Huawei]: clarification is required  [ZTE]: provides clarifications.  [Ericsson]: proposed to note this document.  [Qualcomm]: think the document should be noted  [Huawei] response to ZTE | available |  |
|  |  | S3‑221803 | Solution on temporay slice authorization | Huawei, Hisilicon | pCR | [Ericsson]: proposed to note the contribution  [Huawei] response to Ericsson.  [Qualcomm]: agree with Ericsson on noting the contribution | available |  |
|  |  | S3‑222238 | KI1, New Sol Secure mechanism for UE initiated capability indication procedure | Xiaomi Communication | pCR | [Lenovo]: Propose to postpone.  As KI#1 is not complete in the TR, agreeing or handling the related solutions are difficult and not fine in this meeting.  [Ericsson]: Ericsson agrees with Lenovo to postpone this document.  [Huawei] provide comments.  [Nokia]: Nokia support to postpone the solution also.  [Thales]: supports the proposal to postpone this document. | available |  |
|  |  | S3‑222239 | KI1, New Sol Secure mechanism for network triggered UE capability indication procedure | Xiaomi Communication | pCR | [Lenovo]: Propose to postpone.  As KI#1 is not complete in the TR, agreeing or handling the related solutions are difficult and not fine in this meeting.  [Ericsson]: Ericsson agrees with Lenovo to postpone this document.  [Huawei] provide comments.  [Nokia]: Provide comments.  [Thales]: supports the proposal to postpone this document. | available |  |
|  |  | S3‑221794 | Solution on Key Issue #3 | BUPT | pCR |  | withdrawn |  |
| 5.13 | Study on Security aspects for 5WWC Phase 2 | S3‑221766 | KI1 Update | Nokia, Nokia Shanghai Bell | pCR | [Thales]: asks for change.  [Qualcomm]: proposes some changes  [Nokia]: provide clarification with r1  [Thales]: provides comments  [Nokia]: provide clarification and ask for advice on forming the requirements  [Thales]: asks questions.  [Nokia]: provide clarification  [Thales]: proposes to note.  [Nokia]: provide clarification and respectfully ask you to reconsider your position.  [Thales]: provides clarification. | noted |  |
|  |  | S3‑221767 | KI2 Update | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: revision is needed before approval.  [Nokia]: provide clarification  [Huawei]: revision is needed before approval.  [Nokia]: provide r1  [Huawei]: fine with r1  [Thales]: disagrees with r1.  [Nokia]: Huawei and Thales can you please conclude  [Huawei]: provide clarification.  [Huawei]: can live with original version.  [Thales] answers.  [Nokia]: provide clarification. | approved |  |
|  |  | S3‑221768 | EAP\_AKA prime based authentication for AUN3 devices | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: revision is needed before approval.  [Nokia]: provide clarification with r1  [Thales]: asks for changes.  [Nokia]: accepted the comment and remove N5GC reference and provide r2  [Ericsson]: Update needed  [Nokia]: providing r3 with EN  [Huawei]: revision is needed before approval.  [Nokia]: providing r4 with EN  [Huawei]: fine with r4.  [Thales]: provides comments to Huawei suggestions.  [Nokia]: Propose a way forward  [Huawei]: reply to Thales  [Thales]: provides comments.  [Ericsson]: requires update  [Nokia]: Provide clarification and ask questions to Ericsson  [Ericsson]: comment remains  [Nokia]: providing r5 with new EN as asked  [Huawei]: Fine with r5.  [Thales]: is fine with r5  [Ericsson]: r5 ok | approved | R5 |
|  |  | S3‑221769 | EAP\_TLS based authentication for AUN3 devices | Nokia, Nokia Shanghai Bell | pCR | [Thales]: disagrees with the proposal  [Nokia]: provide clarification  [Thales]: provides answer.  [IDEMIA]: Proposes to note. | noted |  |
|  |  | S3‑221770 | Solution for UE privacy | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: propose to noted  [Nokia]: provide clarification and ask to reconsider your position based on the clarification  [Nokia]: Providing r1 with adding CableLabs as a supporting company and making a few editorial changes in the CR  [Ericsson]: Propose to note  [Nokia]: provide clarification  [Nokia]: Ericsson pls confirm the position  [Ericsson]: Propose to note | noted |  |
|  |  | S3‑221906 | EAP base authentication for AUN3 devices behind RG | CableLabs | pCR | [Thales]: asks for changes.  [CableLabs]: provides clarification.  [Ericsson]: Proposes updates  [Thales]: replies to CableLabs  [CableLabs]: provided -r1 and clarification to Thales and Ericsson.  [Ericsson]: Update needed  [Thales]: provides further comments  [CableLabs]: provides -r2 to address comments from Thales and Ericsson.  [Thales]: disagrees with initial version, r1 and r2.  [CableLabs]: provide comments to Thales.  [Thales]: proposes to note the contribution. | noted |  |
| 5.14 | Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN | S3‑222011 | New Key issue on the security of the information transfer of the RAN AI/ML framework | Ericsson | pCR | [QC]: Asked for clarifications.  [Nokia]: Asked for clarifications.  [Ericsson]: provides some clarifications.  [QC]: Propose to note.  [Ericsson]: provides r1.  [QC]: Propose to note. | noted |  |
|  |  | S3‑222012 | New Key issue on the privacy of information handled by the RAN AI/ML framework | Ericsson | pCR | [Huawei]: ask for revision.  [QC]: Ask for revision.  [OPPO]: asks for clarification.  [Intel]: request changes for merger with 222046  [Xiaomi]: provides comments  >>CC\_3<<  [Ericsson] presents.  [QC] comments, all interfaces are currently protected, if new interfaces are introduced, only they would need additional protection.  [Ericsson] clarifies to study and then capture the conclusion as reusing existing solution or new solution..  [Interdigital] agrees with Ericsson.  [Oppo] agrees with Ericsson and Interdigital.  >>CC\_3<<  [Ericsson]: provides r1  >>CC\_4<<  [Ericsson] presents current status.  [QC] comments  [Intel] supports QC’s comments and Huawei’s comment.  [Huawei] comments.  [Nokia] comments.  [Ericsson] clarifies.  [Huawei] asks question to Ericsson, whether to expect this key issue related to user consent.  [Ericsson] answers no.  [Interdigital] supports.  Chair suggests to merge the contributions and further discuss the merged contribution.  >>CC\_4<<  [Ericsson]: provides some clarifications. Prefer to keep the key issue and record the analysis in the TR.  [Nokia]: ask for clarification before approval  [QC]: Propose way forward.  [Intel]: Do not agree on 222012 and prefer 222046  [Ericsson]: provides r2.  [QC] Request changes.  [Intel]: fine with r2 and changes proposed by Qualcomm  [Ericsson]: provides r3. | approved? | R3 |
|  |  | S3‑222046 | Privacy-Preserving Machine Learning | Intel | pCR | [Huawei]: propose to merge into S3-222012.  [QC]: propose to merge with S3-222012.  [Ericsson]: Proposes to merge to 2012 and remove some requirements or formulations from this contribution.  [Intel]: Fine with proposal to merge with S3-222012 on conditions  [Intel]: Uploaded r1 with generic requirements  [Ericsson]: clarifies that is fine with the merge but it is not fine with merging all the details and requirements from 2046.  [QC] Request change.  [Intel] Support merger with 2012 with the following changes | merged | 012 |
|  |  | S3‑221955 | New Key Issue: Robustness of NG-RAN AI/ML against attacks | Philips International B.V. | pCR | [Huawei]: propose to note or add NOTE.  [Philips] provides input. Kindly asks to reconsider position or update the proposed NOTE.  [QC] Out of scope. Propose to note. Prefer without a NOTE.  [Ericsson] proposes a way forward.  [Philips] OK to merge and way forward.  [Nokia] fine with the merging Nokia proposal 222125 with this KI and ask question  [Ericsson]: provides comments, asks for clarifications.  [QC]: LS is not dependent on KI. Propose to note.  >>CC\_4<<  [Ericsson] invites company to bring contributions about KI 3, about robustnes and data poisoning.  [Huawei] doesn’t think robustness and data poison is in scope of this study.  >>CC\_4<<  [Huawei]: reiterate to note this contribution. | noted |  |
|  |  | S3‑222043 | Detection of MiTM attacks. | Intel | pCR | [Huawei]: Disagree with this proposal and it is put in the wrong agenda.  [QC]: Propose to note. | noted |  |
|  |  | S3‑222044 | Anomalous Behaviour Detection | Intel | pCR | [Huawei]: propose to note.  [Ericsson]: proposes to note.  [Intel]: request clarification from Ericsson/Huawei  [QC] Answered questions. Proposes to note. | noted |  |
|  |  | S3‑222125 | Detecting sources of potential data poisoning attacks towards RAN AI-ML based network optimizations | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: propose to note.  [Noka]: Provide clarification and ask to reconsider the position to agree on the KI.  [Ericsson]: proposes a way forward.  [Ericsson]: provides some additional comments.  [QC]: Propose to note. Comment on way forward.  [Xiaomi]: Propose to note.  [Ericsson]: provides clarification.  [QC]: Discuss on S3-221955’s thread. | noted |  |
|  |  | S3‑221957 | Editorial correction | Philips International B.V. | pCR |  | approved |  |
|  |  | S3‑222126 | Discussion of Distributed Intelligent Enabled 6G Networks | Xidian University | discussion | [Ericsson]: proposes to note the paper. | noted |  |
|  |  | S3‑221837 | Detecting sources of potential data poisoning attacks towards RAN AI-ML based network optimizations | Nokia Japan | pCR |  | withdrawn |  |
|  |  | S3‑222045 | Privacy-Preserving Machine Learning | Intel | pCR |  | withdrawn |  |
| 5.15 | Study on security support for Next Generation Real Time Communication services | S3‑221830 | Proposed solution for key issue #1 using SHAKEN based third-party specific user identities | Qualcomm Incorporated | pCR | [Huawei]: propose to use this contribution as the baseline to incorporate similar solutions proposed in S3-221952 and S3-222220.  [Huawei]: provides r1.  [Xiaomi]: agree with the merging proposal and provide r2.  [Huawei]: ask for further clarification.  [Xiaomi]: provide responses  [Huawei]: provide responses  [Xiaomi]: provide responses  [Huawei]: Agree with the proposals  [Xiaomi]: provide r3.  [Huawei]:OK with r3  [Qualcomm]: Propose changes before it is acceptable  [Huawei]: OK with r4  [Xiaomi]: ok with r4  [Ericsson]: Asks clarification.  [Huawei]: tries to clarify.  [Qualcomm]: provides response  [Ericsson]: Ok with clarification. | available |  |
|  |  | S3‑221952 | New solution for 3rd party ID | Huawei, HiSilicon | pCR | [Huawei]: propose to merge in S3-221830. | available |  |
|  |  | S3‑221953 | New KI on security aspects of SBA in IMS | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑221954 | New KI on security aspects of IMS DC | Huawei, HiSilicon | pCR | [Ericsson]: Provides comments and provides -r1.  [Huawei]: r1 is OK. | available |  |
|  |  | S3‑222022 | New solution: How the Originating IMS network signs the 3rd party IDs and terminating IMS network verifies the 3rd party IDs | Ericsson | pCR | [Huawei]: propose to use this contribution as the baseline to incorporate similar solution proposed in S3-222221.  [Huawei]: provides r1.  [Xiaomi]: agree with the merging proposal and provide r2.  [Huawei]: ask for further clarification.  [Ericsson]: Provides comments.  [Huawei]: responds to the comments on the EN.  [Xiaomi]: provide responses  [Xiaomi]: provide responses and require clarification  [Huawei]: responds to xiaomi  [Xiaomi]: provide response and way forward.  [Huawei]: ok with the proposal from my side.  [Ericsson]: Provides further comments and clarifications and provides r3.  [Xiaomi]: provide responses and provide r4  [Huawei]: ok with r4.  [Ericsson]: Fine with r4. | available |  |
|  |  | S3‑222220 | New solution on AAA Server based Authorization for Third Party Specific User Identities | Beijing Xiaomi Mobile Software | pCR | [Huawei]: propose to merge in S3-221830.  [Xiaomi]: is fine with the merging proposal | available |  |
|  |  | S3‑222221 | New solution on IMS HSS based Authorization for Third Party Specific User Identities | Beijing Xiaomi Mobile Software | pCR | [Huawei]: propose to use this contribution as the baseline to incorporate similar solution proposed in S3-222221.  [Huawei]: propose to merge in S3-222022.  [Xiaomi]: is fine with the merging proposal | available |  |
|  |  | S3‑222222 | New solution on Verification of Third Party Specific User Identities based on STIR/SHAKEN framework | Beijing Xiaomi Mobile Software | pCR | [Huawei]: asks for clarification.  [Xiaomi]: provide responses | available |  |
| 5.16 | Study on security aspects of enhanced support of Non-Public Networks phase 2 | S3‑222042 | Updates to non-3gpp access key issue | Intel | pCR | [Qualcomm]: questions the need for the update; propose to note.  [Intel]: responds to comments  [CableLabs]: supports this pCR.  [Qualcomm]: responds to Intel  [Charter]: supports this pCR. | available |  |
|  |  | S3‑222232 | KI1,New Sol Authentication mechanism for untrusted non-3GPP Access in NPN scenarios | Xiaomi Communication | pCR | [Thales]: asks for changes.  [Xiaomi]: provides r1.  [Huawei]: ask for clarification and revision based on r1.  [Ericsson]: ask for revision based on r1.  [Xiaomi]: provides clarification and r2.  [Ericsson]: asks for update  [Xiaomi]: provides r3.  [Ericsson]: minor update still required  [Xiaomi]: provides r5.  [Ericsson]: r5 is ok  [Thales]: fine with r5.  [Huawei]: propose to bring it next meeting. | available |  |
|  |  | S3‑222233 | KI1,New Sol Authentication mechanism for trusted non-3GPP Access in NPN scenarios. | Xiaomi Communication | pCR | [Thales]: asks for changes.  [Xiaomi]: provides r1.  [Huawei]: ask for clarification and revision based on r1.  [Xiaomi]: provides clarification.  [Ericsson]: needs update  [Xiaomi]: provides r2  [Huawei]: propose to bring it next meeting.  [Ericsson]: r2 ok  [Thales]: is fine with r2. | available |  |
|  |  | S3‑222234 | KI1,New Sol Authentication for devices that do not support 5GC NAS over WLAN access in NPN scenarios | Xiaomi Communication | pCR | [Thales]: asks for changes.  [Xiaomi]: provides r1.  [Huawei]: ask for clarification and revision based on r1.  [Ericsson]: ask for revision based on r1.  [Xiaomi]: provides clarification and r2.  [Ericsson]: r2 ok  [Huawei]: propose to bring it next meeting.  [Thales]: is fine with r2. | available |  |
|  |  | S3‑221895 | New KI on the security of providing access to local services | ZTE Corporation | pCR | [Ericsson]: requires updates, proposes to merge in S3-221982  [ZTE]: provides response and agrees to merge.  [Qualcomm]: propose to note or consider this doc merged into S3-221982 and continue the discussion of this KI in that thread | available |  |
|  |  | S3‑221923 | Key Issue on Authentication for access to localized services | Lenovo | pCR | [Ericsson]: requires updates, proposes to merge in S3-221982  [Qualcomm]: propose to note or consider this doc merged into S3-221982 and continue the discussion of this KI in that thread  [Lenovo]: Provides clarifications. Okay to merge in S3-221982 and continue the discussion of this KI in that thread considering the progress of the Key Issue. | available |  |
|  |  | S3‑221982 | New Key Issue "Authentication for UE access to hosting network" | Ericsson, Intel, Nokia, Nokia Shanghai Bell | pCR | [Thales]: proposes a change.  [Ericsson]: replies to Thales  [Lenovo]: Current Key issue description is not acceptable.  [Ericsson]: provides r1, first draft of the merger with S3-221895 and S3-221923  [Thales]: provides comments.  [Ericsson]: asks Thales and Lenovo to consider agreeing to r1 as a compromise for the sake of progress  >>CC\_4<<  [Ericsson] presents current status.  [Thales] comments, but could live with it for sake of progress.  [Lenovo] comments, needs more clarity in KI description and not OK with requirements, ENs are not sufficient.  [Ericsson] asks question to Lenovo.  [Lenovo] clarifies.  >>CC\_4<<  [Thales]: could live with r1 for the sake of progress  [Lenovo]: r1 needs revision. | available |  |
|  |  | S3‑221950 | DP on loss of control of preferred SNPN list in eNPN | Huawei,HiSilicon | discussion | [Qualcomm]: proposes to note. | available |  |
|  |  | S3‑221951 | New KI on loss of control of preferred SNPN list in eNPN | Huawei,HiSilicon | pCR | [Nokia]: Requires clarification before acceptable.  [Qualcomm]: propose to note.  [Qualcomm]: propose to note.  [Nokia]: Requires further clarification before acceptable.  [Huawei]: responds to Nokia.  [Nokia]: Requires further clarification before acceptable.  [Huawei]: further clarifications.  [Huawei]: Answers to Huawei  [Huawei]: responds to Nokia  [Nokia]: Answers to Huawei  [Huawei]: agree with Nokia’s proposal  [Qualcomm]: clarifies the context for preferred SNPN list in eNPN scenarios.  [Huawei]: replies to Qualcomm, ok to note for this meeting and come back with clarifications next time.  [Qualcomm]: responds to Huawei.  [Huawei]: give a further clarification to Qualcomm.  [Qualcomm]: responds further to Huawei.  [Huawei]: responds further to Qualcomm.  [Qualcomm]: responds further Huawei Qs.  [Huawei]: agree with Qualcomm’s proposal .  [Qualcomm]: responds to a request for confirmation.  [Huawei]: Ok with Qualcomm’s statement. | available |  |
|  |  | S3‑222231 | New KI: Home control enhancement for eNPN | Xiaomi Communication | pCR | [Nokia]: Requires clarification before acceptable.  [Qualcomm]: proposes to note.  [Ericsson]: requires clarification and should be noted if not clarified  [Xiaomi]: is ok to note the KI. | available |  |
| 5.17 | Study on Security of Phase 2 for UAS, UAV and UAM | S3‑221755 | Key Issue on Direct C2 Authorization | InterDigital, Europe, Ltd. | pCR | [Ericsson]: comments  [Qualcomm]: does not understand the need for this contribution  [Interdigital]: replies to Ericsson and Qualcomm  [Ericsson]: withdraws the comment  [Qualcomm]: Ok with original doc | available |  |
|  |  | S3‑221756 | Key Issue: UAV Privacy over PC5 link | InterDigital, Europe, Ltd. | pCR | [Interdigital]: agree with CMCC. Keeping S3-221756 about C2 and S3-222129 about DAA. Providing r1  [Qualcomm]: OK with r1 | available |  |
|  |  | S3‑221838 | Key issue on Privacy and security aspects of broadcasting remote ID | Samsung | pCR | [Qualcomm]: Proposes changes to the CR before approval  [Ericsson]: revision is needed before approval  [Samsung]: ok to note and provides clarification. | available |  |
|  |  | S3‑222129 | Key issue for privacy protection for unicast messages over PC5 | China Mobile | pCR | [Qualcomm]: Proposes way forward for this document and S3-221757  [interdigital]: request revision to reflect focus on DAA here as also discussed in S3-221756 thread  [CMCC]: Providing r1, clarify S3-222129 is specifically about DAA.  [Qualcomm]: OK with r1 | available |  |
|  |  | S3‑221757 | Solution on Direct C2 Security | InterDigital, Europe, Ltd. | pCR | [Huawei, HiSilicon]: This contribution needs revision/clarification before approve.  [Interdigital]: provide clarification.  [Huawei, HiSilicon]: we can keep discussion based on r1.  [Qualcomm]: ask a question and proposes possible change based on the question  [Qualcomm]: Proposes way forward for this document and S3-222129  [CMCC]: Propose to keep S3-221757 and S3-222129 separated, one for C2 and the other for DAA  [Interdigital]: provides r1 addressing comments  [Lenovo]: Requests clarification.  [Interdigital]: Replies.  [Qualcomm]: OK with r1  [Huawei, HiSilicon]: fine with r1.  [Lenovo]: Thanks for the clarification.  [Lenovo]: r1 is fine. | available |  |
|  |  | S3‑221829 | Re-using V2X unicast security for UAS | Qualcomm Incorporated | pCR | [Interdigital]: request clarifications  [Lenovo]: Request clarifications  [Qualcomm]: r1 uploaded  [Lenovo]: r1 is okay  [Interdigital]: OK with r1 | available |  |
|  |  | S3‑221900 | Solution to secure direct C2 and DAA connection | Lenovo | pCR | [Ericsson]: clarification is needed before approval  [Qualcomm]: Question on UAV-C performing UUAA  [Interdigital]: request clarifications  [Lenovo]: Provides clarifications.  R1 is available to address the typos and correction based on the feedback received.  [Qualcomm]: Question on UAV-C performing C2 authorisation  [Ericsson]: withdraws the comment  [Interdigital]: OK with r1  [Lenovo]: r2 is provided.  Added the NOTE.  [Qualcomm]: r2 is OK (company name fix from VC, requested by source company) | available |  |
|  |  | S3‑222087 | New solution about Security establishment and link security protection of unicast PC5 communication | Huawei, HiSilicon | pCR | [Interdigital]: request clarifications  [Interdigital]: OK with original contribution | available |  |
|  |  | S3‑222130 | Address EN in Overview and editorial modification | China Mobile | pCR | [Ericsson]: update is needed before approval  [CMCC]: Uploaded r1  [Ericsson]: r1 is ok | available |  |
| 5.18 | Study to enable URSP rules to securely identify Applications | S3‑221811 | A solution for KI#1 - Provide additional authentication information to enhance URSP policy enforcement | Nokia, Nokia Shanghai Bell, Lenovo | pCR | [Huawei] require some clarifications  [Nokia] provides answers to questions raised by Huawei.  [Ericsson]: requires additional clarification  [Nokia] provides answers to questions raised by Ericsson.  [Ericsson]: replies to Nokia  [Nokia] provides answers to Ericsson. | approved |  |
|  |  | S3‑221901 | Solution on enhancing the URSP rule with certificate fingerprint | Lenovo | pCR | [Lenovo] corrected tdoc nr in subject field and provides rev r1  [Nokia] Requires changes to revision before acceptable – proposes specific wording.  [Lenovo] provides rev r2 with the requested changes.  [Nokia]: Nokia accepts R2.  [Qualcomm]: requires changes  [Huawei] require some clarifications  [Lenovo] provides clarifications to Huawei and a revision r3 according to Qualcomm comments  [Thales]: asks for clarification and proposes changes.  [Lenovo] provides clarifications to Thales and a revision r4 according to Thales comments  [Huawei] proposes to add an EN about the use of static fingerprints  [Lenovo] provides clarifications to Huawei  [Thales]: is fine with r4 | approved | R4 |
|  |  | S3‑221902 | Scope for TR 33.892 | Lenovo, Nokia, Nokia Shanghai Bell | pCR | [Nokia] Requires changes before acceptable.  [Lenovo] ok with the change proposal | approved | ?? |
|  |  | S3‑221903 | Update of KI#1 | Lenovo, Nokia, Nokia Shanghai Bell | pCR | [Qualcomm]: requires update.  [Apple]: modification is needed before approval.  [Lenovo]: provides a revision r1 according to the comments.  [Qualcomm]: still needs to be revised.  [Qualcomm]: proposes not note for this meeting.  [Lenovo]: provides revision r2  [Qualcomm]: Correction: proposes to note for this meeting. | noted |  |
|  |  | S3‑221905 | Assumption on actors and attacker model | Lenovo | pCR | [Apple]: requires clarification before approval.  [Huawei] ask for clarification on application identifiers  [Thales]: asks questions for clarification.  [Lenovo] provides clarification to Apple and Huawei.  [Lenovo]: provides clarification to Thales questions.  [Lenovo]: provides revision r2 according to Thales suggestions.  [Huawei] ask for further clarifications on the use of app id’s  [Lenovo]: provides clarifications to Huawei.  [Thales]: is fine with r2.  [Thales]: not OK with r2.  [Apple]: Correction: Apple is not OK with r2. Thales is still fine with r2 until now.  [Lenovo]: provides clarifications to Apple and revision r3. | approved(Apple check) | R3 |
| 5.19 | Study on Security Aspects of Ranging Based Services and Sidelink Positioning | S3‑221970 | Update Key Issue #1: privacy risks of exposing positioning reference signals | Philips International B.V. | pCR | [Xiaomi]: requests clarification before approval  [Philips] provides answer.  [Interdigital]: requests clarification before approval and proposes merger with S3-221207.  [Philips] provides input.  [Interdigital]: requests better wording of the added requirement and proposes merger with S3-221207.  [Huawei]: requests clarification before approval  >>CC\_3<<  [Philips] presents  [Huawei] comments  [Xiaomi] clarifies.  [Philips] replies.  >>CC\_3<<  [Qualcomm]: requests clarifications before approval  [Philips] provides answers and revision.  [Xiaomi]: requests more comments before approval  [Qualcomm]: proposes to postpone this contribution. | available |  |
|  |  | S3‑222071 | Addressing the editor's note in key issue#1 | Huawei, HiSilicon | pCR | >>CC\_3<<  [Xiaomi] comments.  [Huawei] is ok to revise.  >>CC\_3<<  [Huawei]: provide r1.  [Interdigital]: Supports R1.  [Xiaomi]: fine with r1  [Philips] supports initial version of S3-222071. Not ok with r1.  [Interdigital] Proposes a compromised version of the editor’s Note.  [Qualcomm]: is not fine with r1.  [Huawei]: propose to go with intial verision for this meeting.  [Xiaomi]: requests more comments before approval  [Philips] comments. Prefers 1970. Otherwise initial version of 2071. 2071-r1 is not acceptable.  [Huawei]: prefers the initial version of 2071.  [Qualcomm]: prefers the initial version of 2071.  [Xiaomi]: OK with the initial version | available |  |
|  |  | S3‑222209 | 33.893: Add Third Party UE in KI#2 | Xiaomi Technology | pCR | [Qualcomm]: requests a revision before approval  [Ericsson:] provides comments  [Xiaomi]: provides r1  [Ericsson]: ok with r1  [Qualcomm]: is fine with r1 | available |  |
|  |  | S3‑221973 | Update Key Issue #3: source authenticity verification | Philips International B.V. | pCR | [Interdigital]: Supports the proposal.  [Huawei]: agrees with the proposal.  [Qualcomm]: disagrees with the contribution.  [Philips] comments.  [Philips] kindly asks Qualcomm to reconsider position. Provides r1 to potentially address Qualcomm’s concerns. | available |  |
|  |  | S3‑222084 | New Key Issue on the Security of Ranging/SL Positioning PC5 direct | Huawei, HiSilicon | pCR | [Xiaomi]: proposes to merge it into S3-222207  [Interdigital]: Supports the proposal.  [Xiaomi]: proposes to merge it into S3-222207  [Huawei, HiSilicon]: Fine to merge into S3-222207. Proposes to discuss under 2207. | available |  |
|  |  | S3‑221916 | Key issue on Direct Communication Security | China Telecom Corporation Ltd. | pCR | [Xiaomi]: provides comments and proposes to merge it into S3-222207  [Interdigital]: requests clarification before approval and proposes merger with S3-221916.  [ChinaTelecom]: Request confirmation of IDDC's comments about S3-221916  [ChinaTelacom]: reply the comments from Xiaomi.  [Xiaomi]: provides response to response  [ChinaTelecom]: provides response  [Xiaomi]: provides response to response  [Interdigital]: Apologises for the inadvertent typo. The merger target was S3-222207.  [ChinaTelecom]: provides response and suggestion.  [Philips] asks questions.  [ChinaTelecom]: provides clarification to Philips. | available |  |
|  |  | S3‑222207 | 33.893: New Key Issue on Security for PC5 Communication | Xiaomi Technology | pCR | [Interdigital]: Requires clarifications and changes.  [OPPO]: asks for clarification.  [Xiaomi]: provides clarification and r1  [Philips] asks a question  [OPPO]: asks for further clarification and makes suggestion.  [Xiaomi]: provides answer to the question  [Xiaomi]: provides clarification  [Xiaomi]: provides clarification  [Interdigital]: provides R2 and recommendation for the last two requirements.  [Xiaomi]: fine with r2 and provides clarification  [Huawei, HiSilicon]: provides r3 to merge 2084 and revises the content.  >>CC\_3<<  [Huawei] presents r3.  [Xiaomi] comments.  [Oppo] comments.  [Interdigital] comments on 1st requirement.  Chair asks whether Huawei could accept Xiaomi’s changes.  [Huawei] clarifies.  [Xiaomi] asks question on sensitive data in key issue.  [Huawei] consider location in application should be considered by application server.  [Xiaomi] doesn’t agree.  [CMCC] comments the location sent through UP could be not considered as sensitive data for network.  [Interdigital] support Huawei’s view.  [Apple] support Interdigital view.  >>CC\_3<<  [OPPO]: asks for changes.  [ChinaTelecom]: merge S3-221916 into S3-222207.  [Interdigital]: comments regarding S3-222207-r4. Clarification.is needed before approval.  [Qualcomm]: requests a revision in r4  [Huawei, HiSilicon]: replies to the comments.  [Xiaomi]: provides response to comments and r5  [Interdigital]: provides additional comments to r5. Changes are needed.  [Xiaomi]: provides clarification  [Xiaomi]: provides r6 for merging 2208  [Interdigital]: Points to a flaw in one of the requirements, suggests changes, and requests their implementation. Also, asks to cosign if changes are implemented.  [Huawei, HiSilicon]: Not agree with some threat in R6, propose further revision.  [Qualcomm]: requests revision before approval  [Xiaomi]: provides r7  [ChinaTelecom]: propose further revision based on r6.  [Huawei, HiSilicon]: Fine with r7.  [ChinaTelecom]: Generally accept r7.  [Interdigital]: Supports r7.  [Qualcomm]: is fine with r7 | available |  |
|  |  | S3‑222208 | 33.893: New Key Issue on Security for SR5 Communication | Xiaomi Technology | pCR | [Interdigital]: Requires clarifications and recommends postponing.  [Xiaomi]: provides clarification  [Xiaomi]: provides additional clarification  [ChinaTelecom]: request change the requirements about integrity protection  [Xiaomi]: provides clarification  [ChinaTelecom]: provides clarification  [Xiaomi]: accepts the suggestion and provides r1  [Huawei, HiSilicon]: clarification is required before approval.  [Xiaomi]: provides clarification  [Interdigital]: asks for clarification  [Xiaomi]: provides further clarification  >>CC\_3<<  [Xiaomi] presents  [Ericsson] announce the comment will be provided.  [Xiaomi] reminds the first comment should be before Wed. deadline.  [Interdigital] comments.  [Oppo] comments. >>CC\_3<<  [Huawei, HiSilicon]: provides reply to Xiaomi.  [Xiaomi]: provides more clarification  [Qualcomm]: proposes to postpone  [Xiaomi]: provides clarification and proposes to merge 2208 into 2207 | available |  |
|  |  | S3‑222210 | 33.893: Solution on Assistant UE Authorization during Discovery for KI#2 | Xiaomi Technology | pCR | [Interdigital]: Requires clarifications and recommends postponing.  [Xiaomi]: provides clarification  [Huawei]: clarification is required before approval.  [Xiaomi]: provides clarification  [Philips] asks a question.  [Xiaomi]: provides answer to the question  [Philips] asks another question.  [Xiaomi]: provides answer to the question and provides r1  [Philips] asks to add to 2 ENs.  [Xiaomi]: accepts the suggestions and provides r1  [Philips]: ok with r1.  [Huawei]: agree with interdigital and propose to note for this meeting.  [Xiaomi]: disagrees with Huawei’s comments and provides more comments  [Huawei]: provides clarification.  [Xiaomi]: provides further clarification and suggestion  [Qualcomm]: proposes to note this contribution and wait until there is a progress in SA2  [Ericsson: proposes to note | available |  |
|  |  | S3‑222211 | 33.893: Solution on Application Server Authorization for KI#2 | Xiaomi Technology | pCR | [Interdigital]: Requires clarifications and recommends postponing.  [Xiaomi]: provides clarification  [Huawei]: clarification is required before approval.  [Xiaomi]: provides clarification  [Xiaomi]: provides r2  [Interdigital]: Requires clarifications and adding a new EN: Why LCS is not good enough for solving this particular problem is FFS.  [Huawei]: provides additional comment.  [Xiaomi]: provides clarification  [Huawei]: provides wayforwards.  [Xiaomi]: provides r3  [Ericsson]: provides comments and recommends to postpone  [Qualcomm]: proposes to postpone | available |  |
|  |  | S3‑222212 | 33.893: Solution on 5GC NF Authorization for KI#2 | Xiaomi Technology | pCR | [Huawei]: clarification is required before approval.  [Xiaomi]: provides clarification and r1  [Interdigital]: requests additional clarification  [Xiaomi]: provides clarification [Huawei]: provides additional comment.  [Xiaomi]: provides clarification  [Huawei]: propose to merge this one in S3-222211  [Xiaomi]: proposes not to merge and provides r2  [Huawei]: stay our position.  [Qualcomm]: proposes to postpone  [Xiaomi]: propose response | available |  |
|  |  | S3‑222226 | New solution on GMLC based authorization for Ranging/SL Positioning services | Beijing Xiaomi Mobile Software | pCR | [Interdigital]: Requires clarifications.  [Xiaomi]: provides responses.  [Huawei]: clarification is required before approval.  [Xiaomi]: provides responses.  [Huawei]: propose to merge this one in S3-222211  [Xiaomi]: provides responses and disagree with the merging proposal  [Qualcomm]: proposes to postpone  [Xiaomi]: disagree with the postpone | available |  |
|  |  | S3‑222227 | New solution on NEF based authorization for Ranging/SL Positioning services | Beijing Xiaomi Mobile Software | pCR | [Interdigital]: Requires clarifications.  [Xiaomi]: provides responses.  [Huawei]: clarification is required before approval.  [Xiaomi]: provides responses.  [Huawei]: propose to merge this one in S3-222211  [Xiaomi]: This paper is merged into 2211. | available |  |
|  |  | S3‑222206 | 33.893: Terminology Alignment | Xiaomi Technology | pCR |  | available |  |
| 5.20 | Study on Security and Privacy of AI/ML-based Services and Applications in 5G |  |  |  |  |  |  |  |
| 5.21 | Study on applicability of the Zero Trust Security principles in mobile networks | S3‑221787 | Key issue on misuse of OAuth 2.0 access token by anomalous Network functions | Nokia, Nokia Shanghai Bell | pCR | [Huawei] disagree with the proposal since the issue is not specific to ZTA but rather to SBA security in general.  [Ericsson] : propose S3-221787 to be noted  [Nokia]: provides clarifications  >>CC\_3<<  [Lenovo] points out r1 is available.  [Nokia] presents.  [Huawei] comments it is related to SBA topic, rather than ZTS. And the issue has been discussed, and no consensus on that.  [Nokia] clarifies.  [CableLabs] comments to Huawei’s concern.  [Lenovo] clarifies.  [Huawei] comments  [Nokia] clarifies.  >>CC\_3<<  [Nokia]: provides -r1, taking into consideration the feedback so far.  [Lenovo]: r1 is available for so long that addresses all the feedback received so far.  Asks to check and confirm. | available |  |
|  |  | S3‑221931 | KI "Need for trust evidence collection for dynamic trust monitoring" | Ericsson India Private Limited | pCR | [Lenovo] : Propose to merge S3-221931 in S3-221956.  [Lenovo] : The contribution has most of the aspect same as S3-221956. Additional aspects in S3-221931 are more solution specific.  Hence we Propose to ‘NOTE’ or ‘merge S3-221931 in S3-221956’.  [Nokia]: suggests to merge S3-221931 in S3-221956 as a way to move this forward  [Ericsson] : provides clarification,  [Nokia]: provides comments and ask for revision.  [Ericsson] : provides clarification, S3-221931-r1 uploaded  >>CC\_3<<  [Lenovo] presents current status. propose to merge 931 and 956 but not success.  Chair asks to merge.  [Ericsson] clarifies why not merging.  [Lenovo] clarifies.  [Huawei] comments and objects on 956. The requirement is too broad.  [Lenovo] clarifies.  [CableLabs] proposes concrete proposal to update req.#1.  [Ericsson] proposes a way to merge.  [Huawei] also consider 931 too broad.  [Lenovo] is ok to be merged, not matter based on 931 or 956  Chair asks Ericsson to make a try on merger, based on 931.  >>CC\_3<<  [Lenovo] : Provides additional clarification.  Asks to have all discussion on trust evaluation and monitoring as well as clarification about 956 in one place over S3-221956 thread.  [Huawei] disagree and require clarifications before approval.  [Ericsson]: provides a draft -r2 of the merger of S3-221956-r1 into S3-221931, as was decided in the conf call yesterday  [Nokia]: provides a few observations on -r3 before acceptance  [Lenovo]: provides draft -r3.  Also merged S3-221958 in 931+956 merger doc based on mail and conf call discussion.  [Lenovo]: Provides r4 to address Nokia’s feedback.  Included the proponents of S3-221956 in the co-signing list.  [Ericsson]: disagree with -r4, -r5 uploaded  [Huawei] still disagree with this key issue  [Lenovo] Provides clarification on 1958 merger to Huawei.  [Lenovo] Considering the progress of the work, and the short time we have, let us remove 1958 from 931-r4 and postpone 1958 to next meeting.  [Lenovo]: Asks question about changes to the NOTE 1 in r5 as it is not clear.  [Ericsson]: Provides clarifications and r6  [Lenovo]: Asks for clarification.  [Ericsson]: provides clarification  [Ericsson]: R6 needs revision.  provides clarification  [Ericsson]: please mark in the minutes that the comment “R6 needs revision. “ came from Lenovo and not Ericsson. Clarification provided  [Lenovo]: R6 needs revision.  [Ericsson]: provides r7  [Lenovo]: r7 is okay.  [Nokia]: for the sake of progress in the study, Nokia accepts -r7.  [Huawei] still disagree with the proposal.  [Lenovo/Rapporteur]: Thanks for the feedback.  I will correct the final status based on Huawei’s position. | available |  |
|  |  | S3‑221956 | Key Issue#1 on Need for continuous Trust evaluation | Lenovo, Nokia, Nokia Shanghai Bell, Rakuten Mobile Inc., Interdigital, US NSA, Motorola Solutions, Johns Hopkins University APL, Intel, Center for Internet Security, China Mobile, ZTE, CableLabs | pCR | [Ericsson] : Propose to note.  [Lenovo] : Provides clarification and r1.  [Huawei] Require changes to the requirement before approval  [Nokia]: proposes to keep the requirements and agrees with -r1 provided by Lenovo  [Lenovo]: Requests to provide revision over r1 if any text needs refinements.  Asks to have all communications related to trust evaluation/monitoring and S3-221956 in this thread. | available |  |
|  |  | S3‑221958 | New Key Issue on Usage of Evaluated Trust Information | Lenovo | pCR | [Lenovo] : Propose to merge S3-221958 in S3-221956.  [Ericsson] : Object to Lenovo’s proposal. Propose to note3-221958.  [Lenovo] : Asks clarification from Ericsson for their Objection.  Also provides additional clarification about purpose of the contribution.  Cited Ericsson’s last meeting feedback which aligns with the purpose of this contribution.  [Nokia]: suggest to proceed with the merge and continue the discussion in the S3-221956.  [Ericsson] : provides clarification,  >>CC\_3<<  [Lenovo] presents current status.  [Huawei] comments.  [Lenovo] clarifies.  [Huawei] has further comments.  >>CC\_3<<  [Lenovo] : Provides additional clarification.  [Huawei] require clarifications before approval.  [Lenovo] Provides clarification.  [Lenovo] Propose to Postpone.  To allow time to reach consensus on the basic continuous trust monitoring and evaluation key issue. | available |  |
|  |  | S3‑222056 | Discussion on ZTA study approach | Huawei, HiSilicon | discussion | [Lenovo]: The discussion paper is noted. | available |  |
|  |  | S3‑222057 | Addition of tenant evaluation clause | Huawei, HiSilicon | pCR | [Ericsson] : Supports S3-222057  [NCSC] : Also supports S3-222057  [Nokia]: Supports the addition of the clause and provides some observations to S3-222056 and S3-222057  [Lenovo] : Provides comment and asks for clarification.  [Huawei] Provide clarifications | available |  |
| 5.22 | Study of Security aspects on User Consent for 3GPP Services Phase 2 | S3‑222093 | New solution on User Consent for Roaming of eNA | Huawei, HiSilicon | pCR | [QC] Asked a question.  [Huawei]: provide answer.  [QC]: Propose to note. Send LS to SA1.  [Huawei]: provide clarification.  [Xiaomi]: Provide comments and wayforward  [QC]: Answered questions. Still prefer to note.  [Ericsson]: Comments and ask for clarification | available |  |
|  |  | S3‑222223 | New solution on User Consent for UE Data Exposure to HPLMN in the Roaming case | Beijing Xiaomi Mobile Software | pCR | [Huawei]: Ask for clarification and propose ENs before approval.  [Xiaomi]: provides responses and provides r1.  [QC] Asked for clarification.  [Xiaomi]: Provide response  [Huawei]: comments on r1.  [Xiaomi]: Provide response  [QC]: Propose to note. Send LS to SA1.  [Huawei]: provide clarification and revision for wayforward.  [Xiaomi]: Provide response  [Ericsson]: asks for clarifications  [Xiaomi]: Provide response and provide r1  [QC]: EN do not address our comments. | available |  |
|  |  | S3‑222224 | New solution on User Consent for UE Data Exposure to VPLMN in the Roaming case | Beijing Xiaomi Mobile Software | pCR | [Huawei]: Ask for clarification and propose ENs before approval. Comments for S3-222223 also apply here entirely.  [Xiaomi]: provides responses and provides r1. Same response as 2223.  [QC] Asked for clarification.  [Xiaomi]: Provide response  [Huawei]: comments on r1 and requires revision.  [Xiaomi]: provides responses  [QC]: Propose to note. Send LS to SA1.  [Huawei]: provide clarification and revision for way forward.  [Xiaomi]: provide response  [Xiaomi]: Provide r1  [QC]: EN do not address our comments. | available |  |
|  |  | S3‑222225 | New solution on Modification or Revocation of User Consent for eNA in the Roaming case | Beijing Xiaomi Mobile Software | pCR | [Ericsson]: propose to note  [Xiaomi]: provide response and reminder that this comment is after the objection deadline  [QC]: Provided comments. Request to note. | available |  |
|  |  | S3‑221974 | Update Key Issue #2: User consent for NTN | Philips International B.V. | pCR | [Huawei]: propose to merge with S3-222092.  [Philips] OK with merge.  [QC] Preference this over 2092.  [Ericsson] propose to note  [Huawei]: propose to close this thread, and focus on 222092. | available |  |
|  |  | S3‑222092 | Key Issue Update on User Consent for NTN | Huawei, HiSilicon | pCR | [QC] Preference for requirements in S3-221974.  [Xiaomi]: revision is required before approval  [Huawei]: provide revision 1 based on discussion.  [Ericsson] propose to note  >>CC\_3<<  [Huawei] presents.  [Ericsson] comments the key issue is not needed.  [Huawei] clarifies that is related with LS from other WG.  [Xiaomi] support Huawei’s argument.  [CableLabs] asks why not need this issue  [Apple] supports this key issue.  Chair asks Ericsson for clarification  [Ericsson] clarifies, issue is already addressed in 23.501 and 38.300..  [Huawei] replies to Ericsson’s concern.  [Xiaomi] proposes way forward  [CableLabs] propose to approve and update the key issue in the next meeting..  >>CC\_3<<  [Apple]: supports this key issue and kindly request clarification from Ericsson.  [Xiaomi]: provides clarification and suggestion for further revision  [Huawei]: provides r2 according to conference call’s agreement.  [QC]: Supports r2.  [Ericsson]: disagre with -r2, the KI is based on assumption that are not valid anymore. Clarifys what is said in the conf. call  [Philips] supports r2. Proposes way forward.  [Xiaomi]: support r2 and disagree with Ericsson’s comments  [Philips] comments.  [QC]: Questions to Ericsson.  [Huawei]: suggest to follow the suggestion from majority and cc.  [Philips] ok with r3. | available |  |
|  |  | S3‑222213 | 33.896: Requirements for Key Issue #2 | Xiaomi Technology | pCR | [Huawei]: proposes to merge into S3-222092.  [Xiaomi]: fine to merge into S3-222092 | available |  |
|  |  | S3‑221810 | Solution for NTN User consent | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: proposes minor update.  [Huawei]: resend with the grouping in the subject.  [QC] Proposed modification.  [Xiaomi]: asks question for clarification and provides suggestion | available |  |
|  |  | S3‑222094 | New solution on User Consent Architecture for RAN as enforcement point | Huawei, HiSilicon | pCR | [Xiaomi]: asks for clarification and revision is required before approval  [Huawei]: provides r1 and give feedback.  [Ericsson] propose to note  [Xiaomi]: fine with r1 | available |  |
|  |  | S3‑222214 | 33.896: Solution on Obtaining User Consent in Non-mobility Case for KI#2 | Xiaomi Technology | pCR | [Huawei]: propose to add EN.  [Xiaomi]: provides r1  [Huawei]: r1 is OK. | available |  |
|  |  | S3‑222215 | 33.896: Solution on Obtaining User Consent Revocation for KI#2 | Xiaomi Technology | pCR | [Huawei]: propose to add EN. Similar as S3-222214.  [Xiaomi]: provides r1  [Huawei]: r1 is OK. | available |  |
|  |  | S3‑222091 | New key issue on User Consent for AI/ML for RAN | Huawei, HiSilicon | pCR | [Ericsson] : Propose to note  [Huawei]: provide response and propose a NOTE for moving forward.  [QC]: Propose to note.  [Huawei]: propose responds to Ericsson.  [Ericsson]: ask for clarifications  [QC]: Propose “PII for network optimizations” consent. | available |  |
|  |  | S3‑222127 | New Key Issue on User Consent for Roaming of Edge Application | China Mobile, Huawei, HiSilicon, OPPO | pCR | [Ericsson]: propose to note  [Huawei]: suggest not to object after the “objection” deadline.  [CMCCi]: Propose not to note this contribution since the objection is after the deadline.  [CMCCi]: provide r1 | available |  |
|  |  | S3‑222128 | New Solution on User Consent for Edge Application | China Mobile, Huawei, HiSilicon, OPPO | pCR | [QC] Asked for clarification.  [CMCC]: Provide clarification.  [QC]: Propose to note.  [CMCC]: Propose to add EN and make way forward.  [Ericsson]: propose to note | available |  |
| 5.23 | Study on security enhancements for 5G multicast-broadcast services Phase 2 | S3‑221812 | MOCN security handling for MBS | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: Provides comments.  [Nokia]: provides response  [Nokia]: Revision r1 uploaded.  [Qualcomm]: propose to note this contribution | noted |  |
|  |  | S3‑221836 | TMGI protection during group Paging | Nokia, Nokia Shanghai Bell | pCR | [Huawei]: Provides comments.  [Nokia]: provides response  [Ericsson]: proposed to note the document  [Qualcomm]: proposes to note this contribution. | noted |  |
|  |  | S3‑222066 | Add threat and requirement to key issue on TMGI protection | Huawei, HiSilicon | pCR | [Nokia]: request for clarification, updates proposed and technical discussion needed why privacy is avoiding a spoofing  [Huawei]: Provides reply and r1 {https://www.3gpp.org/ftp/tsg\_sa/WG3\_Security/TSGS3\_108e/Inbox/Drafts/draft\_S3-222066-r1.docx} .  [Ericsson]: how to spoof the UEs belonging to the group,  [Qualcomm]: provides comments and requires revision before approval  [Huawei]: provides r2.  [Ericsson]: proposed to note this contribution (r2) | noted |  |
|  |  | S3‑222067 | Add threat and requirement to key issue on MOCN | Huawei, HiSilicon | pCR | [Qualcomm]: propose to postpone this contribution  [Huawei]: provides r1.  [Ericsson]: Ericsson agrees with Qualcomm and propose to postpone this contribution | noted |  |
|  |  | S3‑222068 | New key issue on security protection for Ues in RRC inactive state | Huawei, HiSilicon | pCR | [Nokia]: request for clarification, this new ‘key update procedure’ seems to exist already  [Huawei]: Provides reply.  [Qualcomm]: propose to note this contribution  [Ericsson]: comment. | noted |  |
|  |  | S3‑222069 | Solution on security protection in MOCN network sharing scenario | Huawei, HiSilicon | pCR | [Samsung]: Clarification needed before approval.  [Huawei]: provide clarification.  [Samsung]: Comments on the clarification.  [Huawei]: provide clarification and r1.  [Samsung]: Comments on r1.  [Qualcomm]: proposes to note this contribution  [Ericsson]: Ericsson agrees with Qualcomm. | noted |  |
|  |  | S3‑222070 | MBS\_Abbreviations update | Huawei, HiSilicon | pCR |  | approved |  |
| 5.24 | Study on enhanced Security Aspects of the 5G Service Based Architecture | S3‑221899 | Updated work plan for SID eSBA security | Nokia, Nokia Shanghai Bell | WI status report | [Nokia]: -r1 uploaded | endorse? |  |
|  |  | S3‑221843 | Editiorial updates to 33875-120 | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: proposes updates  [Nokia]: -r1 uploaded  [Ericsson]: r1 is ok | approved | R1 |
|  |  | S3‑221844 | Scope update | Nokia, Nokia Shanghai Bell | pCR | [Huawei] : request revision with the specific scenarios.  [Nokia] : provides revision by mail.  [Huawei] : provides concrete proposal.  [Nokia] : -r1 uploaded.  [Huawei] : fine with r1. | approved | R1 |
|  |  | S3‑221845 | Clause 3 clean up of subsections | Nokia, Nokia Shanghai Bell | pCR |  | approved |  |
|  |  | S3‑221846 | Scope general remark | Nokia, Nokia Shanghai Bell | pCR | [Huawei] : propose to note.  [Nokia] : do not agree.  [Huawei] : propose to remove the EN, rather than changing the EN to the normal language.  [Nokia] : -r1 uploaded. deleting the EN as proposed by Huawei  [Huawei] : fine with r1. | approved | R1 |
|  |  | S3‑221847 | Trust clause editorial update | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 available  >>CC\_4<<  [Nokia] presents.  [Ericsson] comments.  [Nokia] points out that is revised.  [Ericsson] comments there are more issues.  Keep discussion via email.  >>CC\_4<<  [Ericsson]: proposes updates to r1  [Huawei] : propose to removing teh standalone SCP part.  [Nokia]: -r2 removes the statement of standalone SCP trust  [Ericsson]: r2 fine  [Huawei] : fine with r2. | approved | R2 |
|  |  | S3‑221848 | KI1 EN resolution in KI1 - threat clarification | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: proposes updates  [Ericsson]: proposes further updates  [Nokia]: asks for clarification before updating  [Huawei] : request revision.  [Nokia] : -r1 uploaded  [Ericsson]: proposes updates to r1  [Huawei] : General fine with r1 with minor comments.  [Nokia]: -r2 uploaded  [Ericsson]: proposes updates to r2  [Nokia]: -r3 uploaded, shifting the NOTE to requ section.  [Huawei] : can live with r3. | approved(E/// check) | R3 |
|  |  | S3‑221849 | KI1 solution 1 update | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: should be noted, if not the proposal can be substantially clarified or improved.  [Nokia]: noted. | noted |  |
|  |  | S3‑221850 | KI1 EN resolution in solution 6 - evaluation part | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 uploaded.  [Nokia]: -as per telco, merge into S3-221933 . | merged | 933 |
|  |  | S3‑221933 | Resolving EN in solution #6 | Huawei, Hisilicon | pCR | [Nokia] : -r1 uploaded, integrating merger content from 1850  [Nokia] : -r2 uploaded  [Huawei] : provides r3 to remove the irreletive part.  [Nokia] : -r4 uploaded, clean up.  [Ericsson]: r4 requires updates  [Huawei] : provides r5 in which the changes in last paragraphy of evaluation are reverted.  [Ericsson]: r5 fine | approved | R5 |
|  |  | S3‑221904 | Authentication of NF Producer in Indirect Communication | CableLabs, Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [BSI (DE)]: provides question  [Huawei] : Request clarification.  [CableLabs] : Provided -r1, with ENs on delegated discovery and NFp reselection.  [Mavenir]: is not convinced that this solution adds any value.  [Huawei] : fine with r1.  [Nokia] : fine with r1.  [Mavenir]: Maintains the same position for this solution  [CableLabs]: provided clarification to Mavenir.  [Mavenir]: respond to CableLabs.  [CableLabs]: respond to Mavenir.  [Ericsson]: proposes updates to r1  [Mavenir]: withdraw objection.  [CableLabs]: provide clarification to Ericsson.  [Ericsson]: replies to CableLabs  [CableLabs]: provided -r2  [Ericsson]: r2 is fine | approved | R2 |
|  |  | S3‑221851 | KI1 conclusion on NFp authentication in indirect comm | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: should be noted or considerably rewritten  [Nokia]: -r2 uploaded.  [Ericsson]: r1 requires updates  [Nokia]: proposes to note | noted |  |
|  |  | S3‑221852 | KI2 update with solution and conclusion on trust domain | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 uploaded  [Huawei] : Fine with r1 that no normative is required  [Ericsson]: minor update to r1  [Nokia]: -r2 upload, ed. correction implemented.  [Ericsson]: proposes updates to r2  [Nokia]: -r3 uploaded. | approved(E/// check) | R3 |
|  |  | S3‑221853 | KI3 EN resolution on requirements for subscribe notify | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: should be noted  >>CC\_4<<  [Nokia] r1 is updated and asks Ericsson to check latest one.  >>CC\_4<<  [Nokia]: -r1 update proposed  [Huawei] : fine with r1. Suggest to merge 1936 to this one.  [Ericsson]: proposes clarified Editor's Note  [Huawei] : fine with r1. And disagree with the new EN.  [Nokia] : -r2 uploaded. proposes to add Ericsson’s concern as EN to analysis part of KI3 conclusion.  [Ericsson]: r2 requires updates  [Ericsson]: r2 requires updates  [Huawei] : Only fine with r1. And disagree with the new EN. If r1 is agreed via the email, suggest to discuss during wrap around. | noted |  |
|  |  | S3‑221854 | KI3 EN resolution in solution 12 | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates or should be noted  [Nokia]: -r1 upload  [Ericsson]: r1 requires updates  [Nokia]: noted | noted |  |
|  |  | S3‑221936 | Resolving EN in KI#3 | Huawei, Hisilicon | pCR | [Ericsson]: should be noted  [Huawei] : request further clarifcation, disagree with Noted.  [Nokia] : the EN should be deleted, we want to close the TR. It is not meaningful to keep it at this clause, since we talk about ”potential” security requ.  >>CC\_4<<  [Nokia] presents current status.  [Ericsson] comments.  [Huawei] supports Nokia proposal.  Chair asks whether Ericsson against the removal of the EN.  [Ericsson] confirms.  [Nokia] requests more clarification from Ericsson  [CableLabs] supports to remove the EN.  Chair requests Ericsson to revise EN if it is against to remove the EN, or add concrete requirement.  [Ericsson] comments to try several meetings to add requirement and solution but failed.  [CableLabs] proposes to remove the EN and asks Ericsson to put a correct requirement in next meeting.  [Mavenir] comments support deletion of EN.  [VF] comments requirements must be done before solution. The proposed new sentence is already covered. The EN could be removed and the proposed requirement is not needed.  [CableLabs] comments to Ericsson.  [Ericsson] comment.  [CableLabs] proposes to remove new requirement and EN, and to add more requirement in next meeting.  Chairs proposes to remove EN and request to bring new requirement in next meeting.  >>CC\_4<<  [Huawei] : Suggest to merge into S3-221853. | ntoed |  |
|  |  | S3‑221934 | New solution for the authorization of the delegated subscribe | Huawei, Hisilicon | pCR | [Ericsson]: requires updates  [Huawei] : provide r1.  [Ericsson]: proposes updates to r1  [Huawei] : provideds r2 to capture new comments.  [Ericsson]: r2 requires updates  [Huawei] : r3 is uploaded with the new EN. | approved(E/// check) | R3 |
|  |  | S3‑221855 | KI4 EN resolution of solution 3 | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 uploaded  [Ericsson]: r1 is ok  [Nokia] : -r2 as -r1 but correcting tdoc number, removing changes over changes  [Ericsson]: r2 is ok | approved | R2 |
|  |  | S3‑221856 | KI4 conclusion on authorization of SCP to act on behalf of another SCP | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: responses and provides -r1  [Huawei] : Not OK with r1.  [Nokia] : Provides clarification.  [Mavenir] : disagree with the proposed conclusion in r1 for the possible use of CCA for SCP.  [Nokia]: -r2 uploaded. Conclusion removed.  [Mavenir] : r2 is ggod.  [Ericsson]: r2 requires updates  [Huawei] : require updates.  [Nokia]: -r3 uploaded. new text removed.  [Ericsson]: r3 is ok | approved | R3 |
|  |  | S3‑221857 | KI5 Sol4 ENs resolution | Nokia, Nokia Shanghai Bell | pCR | [Nokia] : -r1 uploaded, text clarification for one EN.  [Nokia] : -r1 uploaded, text clarification for one EN. | approved | R1 |
|  |  | S3‑221858 | KI5 Sol5 ENs resolution | Nokia, Nokia Shanghai Bell | pCR |  | approved |  |
|  |  | S3‑221859 | KI5 Sol8 ENs resolution | Nokia, Nokia Shanghai Bell | pCR |  | approved |  |
|  |  | S3‑222247 | Selective End of End Protection of HTTP Request and Response in Indirect | CableLabs | pCR | [Ericsson]: requires updates  [CableLabs]: provided -r1 and clarification.  [Mavenir]: r1 is okay for now. Mavenir believes that this solution introduces a granularity of configuration complexity that is not useful for 5GC.  [Huawei] : Provide comments on the policy.  [CableLabs] : Provided -r2 with EN proposed by Huawei.  [Ericsson]: r2 is ok  [Mavenir]: r2 is fine.  [Huawei] : fine with r2. | approved | R2 |
|  |  | S3‑221860 | KI5 conclusion on e2e integrity prot of HTTP msg | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: proposes reformulations  [CableLabs]: require changes before approval  [Mavenir]: proposes a rewrite for the conclusion section  [Huawei] : fine with on normative on KI5, but can wait for one more meeting cycle.  [Nokia]: -r1 uploaded.  [Mavenir]: is good with r1.  [Ericsson]: r1 is ok  [Huawei] : fine with r1. | approved | R1 |
|  |  | S3‑221861 | KI6 EN resolution in KI threat | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 uploaded  [Ericsson]: r1 is ok | approved | R1 |
|  |  | S3‑221862 | KI6 related Sol7 update and conclusion on access token usage by NFs of an NF Set | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Huawei] : propose to use sol#7 as the baseline for conclusion discussion.  [Ericsson]: asks Huawei to clarify  [Huawei] : reply to Ericsson that no normative is required for KI6.  [Nokia] : uploads -r1  [Ericsson]: r1 requires updates  [Nokia]: r2 uploaded  [Ericsson]: r2 is ok  [Huawei] : fine with r2. | approved | R2 |
|  |  | S3‑221863 | KI7 evaluation of solution 9 on authorization method negotiation | Nokia, Nokia Shanghai Bell | pCR | [Huawei] : object with this version and provide r1 to remove the statement that is irreletive of the this solution.  [Nokia] : -r2 provided  [Huawei] : provides r3 with minor changes.  [Nokia] : -r4 uploaded  [Huawei] : fine with r4. | approved | R4 |
|  |  | S3‑221935 | Resolving EN in solution #9 | Huawei, Hisilicon | pCR | [Nokia]: object the deletion of EN without adding evaluation. | noted |  |
|  |  | S3‑221864 | KI7 Adding a solution on how to handle static auth in roaming with existing methods | Nokia, Nokia Shanghai Bell | pCR | [Nokia]: -r1 upload, reflecting GSMA recommendations from Ericsson made in S3-221865  [Huawei] : request clarification on how to configure the parameter.  [CMCC] : request clarification.  [Nokia] : responses.  [Huawei] : provides comments back to NOKIA.  [Nokia] : provides responses.  [Nokia] : requests for approval.  [CMMC] : requests to remove the GSMA guidelines related sentences.  [Nokia] : does not agree. GSMA guideline related sentence is part of the solution. Please provide feedback by analysis, not by limiting a solution proposal by removing evidence.  [CMMC] : still not fine with r1, upload r2.  [Ericsson]: comments on GSMA guidelines  [Huawei] : request clarification on how to solve the key issue #6.  [Nokia] : -r3 uploaded, implementing proposed 3 ENs  [Ericsson]: replies to Huawei’s request to clarify way forward for the key issue  [Huawei] : fine with r3. Reply to Ericsson on the requirement. | Approved(E/// check) | R3 |
|  |  | S3‑221865 | KI7 conclusion on authorization mechanism determination | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: comments that the issue is already addressed in GSMA guidelines  [Nokia]: -r1 uploaded. It proposes to add the recommendations by GSMA on handling the key issue as part of the analysis  [Huawei] : disagree with r1.  [Mavenir] : support r1 and argue that any operator who disagree with GSMA recommendation shall bring the issue to GSMA.  [Huawei] : Sustain our objection.  [Nokia] : -r2 removes the conclusion, but keeps the analysis.  [Huawei] : propose to note in this meeting.  [Nokia] : noted | noted |  |
|  |  | S3‑221868 | KI8 update of solution 10 and evaluation | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 uploaded  [Ericsson]: r1 is fine  [Huawei] : request revision to capture the content in the 1869.  [Nokia]: asks for clarification  [Huawei] : fine with r1 considering the limited time. | approved | R1 |
|  |  | S3‑221869 | KI8 conclusion on deploying multiple NRFs | Nokia, Nokia Shanghai Bell | pCR | [Ericsson]: requires updates  [Nokia]: -r1 uploaded.  [Mavenir]: -r1 is good.  [Huawei] : propose to reformulate the conclusion.  [Nokia] : propose to agree on -r1  [Huawei] : Request clarification on the process.  [Huawei] : Provides clarification on the process.  [Nokia] : Provides clarification on the process.  [Ericsson]: can live with r1, proposes optional update  [Huawei] : request to refer sol#10, which capture the content of the draftCR.  [Ericsson]: can still live with r1, but sees issue with r2  [Nokia] : -r3 updates to EN to address the open points.  [Huawei] : fine with r3. | approved | R3 |
|  |  | S3‑221870 | KI9 sol11 EN resolution on authorization for inter-slicing access | Nokia, Nokia Shanghai Bell | pCR | [Nokia]: merge 1870 into 1897 | merged | 897 |
|  |  | S3‑221897 | Resolve EN for solution#11 | Samsung | pCR | [Samsung]: Provides r1 based on the comments received during last week's conf call  [Nokia]: 1870 should be merged into 1897  [Samsung]: Provides r2, merging 1870 into 1897  [Ericsson]: r2 requires updates  [Samsung]: Provides clarification  [Huawei] : Request clarificatio on slice resource.  [Nokia] : propose to delete EN  [Huawei] : Reply to NOKIA’s comments.  [Ericsson]: replies to Samsung  [Samsung]: Provides r3  [Huawei] : fine with r3.  [Ericsson]: r3 is fine | approved | R3 |
|  |  | S3‑221928 | Conclusion on KI9 authorization for inter-slicing access | Nokia, Nokia Shanghai Bell | pCR | Nokia: Merge 1928 into 1898  Nokia: Merge 1928 into 1898  Nokia: Update after telco - we do NOT merge tdocs!  -r1 uploaded.  [Mavenir]: Update for solution X of possible proposed candidate normative text is required and clarification also is required for r1 before approval  [Samsung]: Provides r2. Asks for clarification.  [Nokia]: Provides r3 and clarification.  [Ericsson]: r3 requires updates  [Nokia]: -r4 implementing the requested changes  [Ericsson]: r4 is fine | approved | R4 |
|  |  | S3‑221898 | Conclusion for KI#9 | Samsung | pCR | [Ericsson]: should be noted or considerably updated  [Samsung]: Provides Clarification  [Huawei] : fine with the second bullet only, but request to remove the 1st part on slice resources.  [Nokia] : 2 tdocs handle conclusion for KI#9. Please check revision of S3-221928.  [Mavenir]: does not agree with the conclusion. Propose to remove the conclusion or note the contribution  [Nokia] : -r1 uploaded.  [Ericsson]: r1 requires updates  [Huawei] : fine with removing the conclusion part, but request revision.  [Samsung]: Provides r2  [Mavenir]: r2 is fine.  [Huawei] : fine with r2.  [Ericsson]: r2 is fine | approved | R2 |
|  |  | S3‑221737 | LS to 3GPP Hosted SEPP | GSMA | LS in | >>CC\_1<<  [Ericsson] presents.  >>CC\_1<< | replier to | 871 |
|  |  | S3‑221871 | LS reply to GSMA on Hosted SEPP | Nokia, Nokia Shanghai Bell | LS out | >>CC\_1<<  [Nokia] presents that is a dummy draft reply.  [Mavenir] asks proposal on draft reply.  [Nokia] clarifies, just a polite answer, and to keep study.  >>CC\_1<< | approved |  |
|  |  | S3‑221978 | Update to and split of KI#10 to clarify the scenarios | BSI (DE),Nokia, Nokia Shanghai Bell | pCR | [BSI (DE)] : provides r1 on behalf of Nokia  [BSI (DE)] : provides r2  [Ericsson]: proposes updates to r2  [BSI (DE)]: comments on updates to r2 from Ericsson  [Ericsson]: replies to BSI’s comments  [BSI (DE)]: replies to Ericsson’s comments  [Ericsson]: replies to BSI  [BSI (DE)]: replies to Ericsson  [Ericsson]: replies to BSI  [BSI (DE)]: provides r3  [Ericsson]: r3 is fine | approved | R3 |
|  |  | S3‑221980 | Solution for KI#10 (hosted SEPP) | BSI (DE),Nokia, Nokia Shanghai Bell | pCR | [BSI (DE)] : provides r1 on behalf of Nokia  [Ericsson]: provides updates to r1  [BSI (DE)]: comments on updates to r1 from Ericsson  [Ericsson]: replies to BSI  [BSI (DE)]: replies to Ericsson’s comments  [Ericsson]: replies to BSI  [BSI (DE)]: provides r2  [Ericsson]: r2 is fine | approved | R2 |
|  |  | S3‑222246 | pCR to TR33.875 new solution on PRINS for roaming hubs | NTT DOCOMO INC., Nokia, NokiaShanghai Bell, BSI (DE), Deutsche Telekom | pCR | [Ericsson]: requires clarifications  [NTT DOCOMO]: provides clarifications and updates in -r1  [Deutsche Telekom] : agrees to -r1  [Ericsson]: proposes updates to r1  [NTT DOCOMO]: provides clarification and update in -r2  [Mavenir]: supports r2 and would like to cosign the contribution.  [NTT DOCOMO]: r3 adds Mavenir as source  [Ericsson]: r3 is ok | approved | R3 |
|  |  | S3‑221872 | KI10 conclusion on N32 roaming | Nokia, Nokia Shanghai Bell | pCR |  | approved |  |
|  |  | S3‑221999 | Discussion regarding issues for NRF validation of NFc for access token | Ericsson | discussion |  | noted |  |
|  |  | S3‑222000 | Certificate solution for NRF validation of NFc for access token requests | Ericsson | pCR | [Mavenir]: objects to this contribution. Mavenir makes a proposal for an agreeable solution to address both S3-222000 and S3-222001  [Ericsson]: asks Mavenir to propose Editor’s Notes and submit an alternative solution to the next meeting  [Ericsson]: provides r1, based on discussion with Mavenir in the thread for S3-222001  [Mavenir]: r1 looks good. | approved | R1 |
|  |  | S3‑222001 | Combined certificate and profile solution for NRF validation of NFc for access token requests | Ericsson | pCR | [Mavenir]: objects to this contribution and contribution S3-222000 as they are. Mavenir makes a proposal for an agreeable solution.  [Ericsson]: asks Mavenir to propose Editor’s Notes and submit an alternative solution to the next meeting  [Mavenir]: maintains the same position while we can try to address your concern as below.  [Ericsson]: proposes updated Editor’s Notes  [Mavenir]: provides an update to E/// counter proposal in an attempt to close on these two contributions.  [Ericsson]: proposes updates to Mavenir’s proposal in an attempt to converge  [Mavenir]: agrees to E/// update of the “O&M Provisioning solution for pure NF consumer” and the remaining agreement as per this thread. Looking forward to the updated contributions for final approval  [Ericsson]: provides r1, based on update discussion with Mavenir  [Mavenir]: r1 looks good. | approved | R1 |
|  |  | S3‑221873 | KI11 conclusion on NFc registration at NRF | Nokia, Nokia Shanghai Bell | pCR |  | approved |  |
| 6 | New Study/Work item proposals | S3‑221751 | Discussion paper on open questions regarding 256-bit algorithms | KDDI Corporation | discussion | >>CC\_2<<  [KDDI] presents.  [VF] comments.  [KDDI] clarifies.  [Ericsson] comments.  Chair has concern about time required for the study and the Rel-18 timeline available. Probably need to be taken up in Rel-19. But probably the TR cleanup can be taken up before that.  >>CC\_2<<  [Ericsson]: Comments | available |  |
|  |  | S3‑221761 | Discussion on Work for Prose Secondary Authentication in Rel-18 | InterDigital, Europe, Ltd. | discussion |  | available |  |
|  |  | S3‑221762 | New WID: 5G ProSe Secondary Authentication | InterDigital, Europe, Ltd., LG Electronics, Samsung, China Telecom | WID new | [Interdigital]: rev1: adding Philips as supporting company plus minor changes based on offline comments  >>CC\_4<<  Chair asks how many supporters.  [Interdigital] 5 supporters.  >>CC\_4<< | available |  |
|  |  | S3‑221785 | Discussion on authenticating carrier applications via IMS | Google, Apple | discussion | >>CC\_2<<  [Apple] presents.  [VF] comments whether, it is related to UC3S work?.  [Apple] clarifies, no they are different.  [NTT Docomo] asks the relationship with AKMA.  [Apple] clarifies they are different.  [Interdigital] comments the solution and the goal is similar as AKMA.  [DT] asks whether there is relationship with GSMA IMS related work.  Chair comments it is not urgent work for R18, suggest to bring it for R19.  >>CC\_2<<  [Deutsche Telekom] : asks further clarifications  [Google] provides some clarifications  [Huawei] ask for clarifications  [Deutsche Telekom] : thanks for the clarifications and indicates support for the proposed way forward.  [Nokia] : Nokia supports the study, but maybe for Rel 19 because it is too late for Rel 18.  [Google] provides some additional clarifications  [Huawei] responds to Google | available |  |
|  |  | S3‑221896 | DTLS for AKMA WID | ZTE Corporation | WID new | [Vodafone] – Vodafone objects - we do not accept the justification – BEST is standardised for this – secondly We have enough work already without adding this study item.  [Vodafone] – Vodafone objects - we do not accept the justification wording  [Thales]: Thales disagrees.  [Ericsson]: provides clarification.  [Ericsson]: withdraws the previous comment since Ericsson is not the author of the contribution.  [ZTE]: provide response.  [CMCC] supports the WID and requests clarifications from Thales.  [ZTE]: Thanks CMCC for supporting and provide R1.  [OPPO]: Support the WID.  >>CC\_4<<  Chair asks how many supporters.  [ZTE] gets 7 supporters.  Chair asks whether can be combined with OSCORE Ua\* proposal.  [ZTE] better to keep separate  [Ericsson] better to keep separate.  [Thales] has concerns.  >>CC\_4<<  [Thales]: provides answers  [ZTE]: Provide clarification. | available |  |
|  |  | S3‑222013 | New WID on IETF OSCORE Ua\* protocol profile for AKMA | Ericsson | WID new | [Samsung] Asks for Clarification.  [Thales]: asks for change.  [Ericsson]: provides clarifications.  [Huawei] ask for clarifications  [Thales]: replies to Ericsson.  [Samsung] provides further comment.  [CMCC] supports the WID and requests clarifications from Thales.  [Ericsson]: provides clarifications.  >>CC\_4<<  [Thales] has concerns. It excludes GBA  Chair clarifies it is focus on AKMA, not GBA.  [Thales] comments it is not correct not to involve GBA, affects GBA interface, but doesn’t mention GBA..  [Ericsson] clarifies.  [Thales] comments.  [Huawei] proposes to consider CRs later. Comments on SID proposal that could be clarifies what it want to do.  [Ericsson] clarifies CR can be dropped this time and bring it back if the WID is agreed.  [Huawei]  >>CC\_4<<  [Thales]: provides answers  [Ericsson]: provides r1  [Thales]: disagrees with r1 | available |  |
|  |  | S3‑222039 | Study on enhancements to facilitate N32 adoption by Standalone Non-Public Networks | Intel | SID new | [Ericsson]: Requires clarification. It is not clear what exactly should be studied and whether a SID is the correct way to study it.  [Intel]: Provides clarification to Ericsson  [Nokia]: Support the view expressed by Ericsson and provides further comments.  [Cisco]: Provides clarification to Nokia  [Huawei]: share same opinion with Ericsson and Nokia. Don’t think this requires standard work.  [Cisco]: Provides clarification to Huawei.  [Ericsson]: Replies to Intel and Cisco.  [Qualcomm]: proposes to note the SID for this meeting.  [Intel]: provide comments and fine to postpone SID | available |  |
|  |  | S3‑222041 | Discussion about the enhancement to N32 Reference Point | Intel | discussion | [Ericsson]: proposes to note this discussion paper and keep the discussion in the thread for S3-222039, the related SID  >>CC\_2<<  [Intel] presents current status.  [Ericsson] comments the proposal will change N32 fundamentally.  [VF] comments.  [NTT Docomo] concerns N32 is purely signaling interface.  [Nokia] comments proposal is more like a solution.  [Huawei] shares same view as Ericsson and Nokia.  >>CC\_2<< | available |  |
|  |  | S3‑222049 | Discussion Paper on Revised WID(s) on AKMA Kaf Refresh | OPPO, ZTE, Nokia, Nokia Shanghai Bell, Samsung | discussion | [Ericsson]: Does not endorse the discussion paper.  [OPPO]: provides reply comments and seeks clarification.  [Qualcomm]: proposes to note.  [Ericsson]: provides clarifications.  [Ericsson]: provides further clarifications.  [Qualcomm]: provides further info for our proposal to note  [OPPO]: provides further info why Kaf refresh is needed  [Samsung] Disagree with QC comments and provides further points.  [Ericsson]: provides some clarifications.  [Samsung] provides clarifications.  >>CC\_4<<  [Oppo] presents current status.  Chair asks way forward.  [Oppo] clarifies there are two alternatives. If one is approved, the other could be withdrawn.  [CMCC] request to get conclusion in this meeting, or it has no time to do this.  [Apple] prefers option 1, to revise AKMA SID  [Nokia] supports CMCC and Apple proposal.  [ZTE] supports and prefer option 1.  [Huawei] objects to go option 2, but does not object option 1.  [QC] objects both option 1 and option 2. objecting the study.  [Oppo] requests to make show of hands.  [QC] doesn’t agree, it needs consensus.  [Huawei] comments if the key issue is valid, it could be study no matter which SID can study it.  Chair comments the key issue is already there as Oppo mentioned.  [Huawei] that is not the same issue in HTRA  [QC] is ok to be in scope of HTRA as compromise.  [Oppo] asks whether to QC support option 2?  [QC] clarifies it does not support option 2, but can support HNTRA as a use case for K AKMA refresh.  [Oppo] comments there is no use case in HTRA, it is concluded in previous meeting.  [Lenovo] provides background information.  [Ericsson] comments.  Chair asks where to have this study?  [Ericsson] is ok to make into HTRA as compromise.  Chairs asks whether this issue can be put in HTRA SI.  [QC] comments it doesn’t want to developnew solution.  [ZTE] provides information. As all solution are blocked in HTRA, so prefer not to in this SI.  [Huawei] comments it is better to discuss it in AKMA rather than HTRA. It is strange to put into HTRA.  [Nokia] comments the key issue is to refresh Kaf without primary authentication, but in HTRA it indicate to have a primary authentication.  [Apple] supports Nokia’s comment.  [QC] comments.  Chair asks to put this issue into HTRA. Other proposals can go plenary directly.  >>CC\_4<< | available |  |
|  |  | S3‑222050 | Revised SID on enhancement of AKMA | OPPO, ZTE, Nokia, Nokia Shanghai Bell, Samsung, Apple, VIVO | other | [Qualcomm]: proposes to note. | available |  |
|  |  | S3‑222051 | Revised SID on Study of Security aspect of home network triggered primary authentication | OPPO, ZTE, Nokia, Nokia Shanghai Bell, Samsung | other | [Ericsson]: Proposes to note. The HONTRA study cannot look into a procedure which does not involve primary authentication.  [OPPO]: provides reply to comments.  [Qualcomm]: proposes to note.  [Huawei]: proposes to note. | available |  |
|  |  | S3‑222072 | New SID on eLCS security | Huawei, HiSilicon | WID new | [Qualcomm]: proposes to note.  [Huawei]: provides clarification.  >>CC\_4<<  [Huawei] presents current status.  >>CC\_4<<  [Interdigital]: Agrees with Huawei clarification and points out the need for security and privacy protection in eLCS.  [Qualcomm]: responds to the clarification from Huawei.  [Huawei]: provides further clarification.  [Qualcomm]: responds to the additional clarifications. | available |  |
|  |  | S3‑222073 | Discussion paper on eLCS security | Huawei, HiSilicon | discussion | >>CC\_2<<  [Huawei] presents.  [Interdigital] comments to co-ordination with Ranging.  [QC] comments objectives not clear, doesn’t agree. Wait for SA2 to progress, to see if there is anything specifically to be done in SA3.  >>CC\_2<<  [Qualcomm]: proposes to note. | available |  |
|  |  | S3‑222085 | R18 WID on security for Isolated Operation for Public Safety in 5G system | Huawei, HiSilicon | WID new | MSI requires clarification of Objectives before agreement of this WID  [Huawei, HiSilicon]: Provide r1 to address concern from MSI.  [Ericsson]: provides comments.  [MSI]: MSI accepts r1.  [Qualcomm]: Do not agree with WID as need alignment with SA2. | available |  |
|  |  | S3‑222086 | Discussion on the security of Isolated Operation for Public Safety in 5GS | Huawei, HiSilicon | discussion | >>CC\_2<<  [Huawei] presents.  [Nokia] does not agree, SA2 didn’t agree with this work.  [Ericsson] has provided comments via email, so doesn’t agree with this.  >>CC\_2<< | available |  |
|  |  | S3‑222101 | Revised WID for 5G SCAS work for Rel-17 features on existing functions | Huawei, HiSilicon | WID revised |  | available |  |
|  |  | S3‑222120 | Security assurance specification drafting | Huawei, HiSilicon | discussion | >>CC\_2<<  [Huawei] presents  [QC] comments.  [CMCC] comments on 2nd point.  [Oppo] asks the relationship between this one and BSI contribution.  >>CC\_2<< | available |  |
|  |  | S3‑222197 | New SID on Security Aspects of Satellite Access | Xiaomi, China Mobile, China Telecom, Qualcomm, InterDitigal, ZTE, Nokia, Nokia Shanghai Bell, Thales | SID new | [Ericsson]: requests for clarifications.  [Xiaomi]: provides clarification  [Ericsson]: asks for clarifications.  [Xiaomi]: provides clarification and r2  >>CC\_4<<  [Xiaomi] presents current status.  Chair asks whether it is feasible to send for information to SA plenary at December. That may not be practical. So the scope should be very clear and very narrow to keep it on time.  >>CC\_4<<  [Ericsson]: is fine with r2. | available |  |
|  |  | S3‑222254 | WID on SBA security | Nokia, Nokia Shanghai Bell | WID new | [Ericsson]: The WID is based on conclusions in TR 33.875, so the WID should only be agreed if conclusions are agreed in TR 33.875. Currently, there are no conclusions for normative work in TR 33.875.  [Huawei] : propose to postpone the eSBA WID.  >>CC\_4<<  [Nokia] presents current status.  [CableLabs] supports this WID.  [Huawei] comments already via email. There still has discussion, proposes to approve in next meeting if there is consolidate material.  [Nokia] clarifies.  Chair concerns there is no chance to have new WID in Nov.  [Interdigital] supports the WID and proposes to approve it right now.  [CableLabs] there is already some conclusions.  [Huawei] comments it may need to approve WID in Nov.  Chair asks to continue email discussion.  >>CC\_4<<  -r1 uploaded, adding co-supporters | available |  |
| 7 | CVD and research | S3‑221922 | Recent research papers on LTE security | CableLabs | discussion |  | available |  |
| 8 | Any Other Business | S3‑221717 | SA3 meeting calendar | SA WG3 Chair | other |  | available |  |