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| **Agenda** | **Topic** | **TDoc** | **Title** | **Source** | **Type** | **Notes** | **Decision** | **Replaced-by** |
| 1 | Agenda and Meeting Objectives | S3‑220001 | Agenda | SA WG3 Chair | agenda | >>CC\_1<<[Chair] presents>>CC\_1<< | available |  |
|  |  | S3‑220003 | Process for SA3#106e meeting | SA WG3 Chair | other | >>prep call<<[Chair] presents with adjustment on agenda.[Ericsson] requests to move one group of AI#4.9(onboard) from week 2 to week1 as SA2 is waiting for results.[HW] proposes to give priority for R-17, and requests to move AIs with exceptions to week1. (MEC, Prose, ??)[Chair] would ask status update from rapporteurs and decides how to adjust agenda.[Nokia] requests to move all groups of AI#4.9 as contributions in other group are dependent with requested group.---status update---[Apple] 5GFBS would like to set conclusion which may get consensus as R17 and others can be R18.[Chair] does not like to split AI into 2 weeks. And proposes not to continue discussion on other parts[SIV] no show.[Ericsson] FS\_Auth\_enh needs to reply LS. TR could be seen as completed.[HW] FS\_edge\_sec is already concluded, proposes to keep discussion raised by Apple in normative work phase. WI still has some left issues, shall be solved in this meeting.[Chair] asks whether proposal is to move AI#4.10 instead of AI#5.4 in week 1.[HW] confirms.[QC] comments moving too much will confuse people.[Chair] proposes to move AI#4.10 in week 1, no one object.[CATT] Prose, SID is 80%, already sent for approval. 14 contributions still for TR, 8 for conclusion. Pending issue still needs discussion. Open issue will go in R18. So TR can be closed in this meeting. WID is 45%. Pending issues (CP solution) needs details, needs to reach consensus. Approval is expected to be reached in this meeting and reply to other WG, no more ENs.[Chair] how to complete?[IDCC] too many papers, proposes to merge and 1-2 confcalls to speed up.[Chair] major issue comes from work item in week2, proposes to have offline call and merging way forward in next Monday call.[QC] comments about the work load.[CATT] proposes to have 3 days for SI and others for WI.[Chair] will allocate 1 slot for WI discussion in week 1, then offline discussion encouraged, keep normative work in week 2 still.[HW] comments Monday cc is very early as there is nearly no discussion spread.[Chair] clarifies the cc will be used for merger only. No technical/email discussion in week 1. It just uses to help fast handling in week 2.[QC] comments.[HW] MBMS TR has been sent for approval. 100%. for TS, no major issue. LS from SA2 needs to treat, should go into R18 study. [Chair] questions on completion percentage.[HW] TR can be 100%, TS has leftover issue.[CMCC] 5GMSG TR 95% only cleanup needed. TS left EN only and could be 100% after this meeting.[CMCC] eNA TR 90%, all EN convert to Note by Edithelp. So 100% can be marked. TS needs to wait for the consensus of user consent in week 1.[Ericsson] AMF\_Reallocation is concluded. Only 1 contribution, so it could delay to week 2.[Chair] can use slot directly.[Samsung] IAB is 100% completed. No open issue. Needs to send for approval.[Chair] asks why not 100% last meeting.[Samsung] no coversheet prepared last meeting.[Nokia] eSBA should go to R18, no percentage prepared right now. Will push conclusion next meeting. R17 related discussion will also has related CR for normative work[HW] slicing2 has left 2 open issues in study. 1 for SA3 only(pending conclusion), and 1 dependent from SA2 but SA2 goes into R18. propose to align with SA2 to shift last one to R18.[Nokia] NSWO. TR left cleanup.[eNPN] no major issue. 90% already, all left should be solved in this meeting.[UAS] TR 100%, TS two types open issue left. Has very little impact on stage 3.[UC3S] normative work 85%. two EN left. Hope to solve those ENs in this meeting.---status update---[Chair] proposes to promote SDT and UPIP related contribution based on RAN2 request. [Ericsson] not too much incoming LS for week 1.[HW] asks the conclusion on AI#4.9, whole group or only 1 group?[Chair] 1 group plus contributions request by Helena.[HW] proposes to promote some other contributions as requested by CT group.[Ericsson] proposes to move whole group if more contribution requests[Chair] whole groups.[QC] comments[Chair] **repeats the conclusion: Prioritized 3, 4.4, 4.14, 4.19, 4.9 and 4.10 are added in week 1.**---new delegate welcome---Welcome: Anbin Kim from LGE, Mohsin Khan from Ericsson, Henry from Xiaomi, Helena Flygare from Ericsson, Saurabh Khare from Nokia, Rakshesh P Bhatt from Nokia---new delegate welcome--->>prep call<< | available |  |
| 2 | Meeting Reports | S3‑220002 | Report from SA3#105e | MCC | report | >>CC\_1<<[Chair] presents>>CC\_1<< | available |  |
|  |  | S3‑220004 | Report from last SA | SA WG3 Chair | report | >>CC\_1<<[Chair] presents, r1 in draft folder[HW] clarifies 107 should be online meeting as it is before Q2 plenary meeting.[Cablelabs] asks what we should decide for 107-bis[Chair] clarifies whether SA3 is ready to go ahead with the face to face meeting arrangements for the SA3 meeting in Bath. ETSI Coordinators need to confirm the meeting with hotel. Everyone is requested to consider this, will come back on Friday to decide. >>CC\_1<< | available |  |
|  |  | S3‑220005 | Meeting notes from SA3 leadership | SA WG3 Chair | report |  | withdrawn |  |
|  |  | S3‑220006 | Meeting notes from SA3 leadership | MCC | report |  | reserved |  |
| 3 | Reports and Liaisons from other Groups | S3‑220007 | LS on new parameters for SOR | C1-214118 | LS in |  | available |  |
|  |  | S3‑220008 | LS on Using CP-SOR as a secured information transfer mechanism between HPLMN and UE | C1-217163 | LS in |  | available |  |
|  |  | S3‑220009 | LS on the User Controlled PLMN Selector with Access Technology in Control plane solution for steering of roaming in 5GS | C1-217358 | LS in |  | available |  |
|  |  | S3‑220010 | [FSAG Doc 92\_003] Reply LS on attack preventing NAS procedures to succeed | C1-217378 | LS in |  | available |  |
|  |  | S3‑220011 | LS on Disaster Roaming Enabled Indication | C1-217427 | LS in | [LGE] : This LS should be noted | available |  |
|  |  | S3‑220012 | LS-Reply on Home Network triggered re-authentication | C4-215437 | LS in |  | available |  |
|  |  | S3‑220014 | Reply LS on RAN2 agreements for MUSIM | R2-2111329 | LS in |  | available |  |
|  |  | S3‑220015 | LS on RAN2 agreements for paging with service indication | R2-2111330 | LS in |  | available |  |
|  |  | S3‑220016 | Reply LS on UP security policy update | R2-2111527 | LS in |  | available |  |
|  |  | S3‑220025 | Reply LS on Using N32 for Interconnect Scenarios | S2-2109334 | LS in |  | available |  |
|  |  | S3‑220026 | Reply to LS on Resynchronisations | ETSI SAGE | LS in |  | available |  |
|  |  | S3‑220027 | Reply LS to CT3 Questions and Feedback on EVEX | S4-211647 | LS in |  | available |  |
|  |  | S3‑220028 | LS Reply on QoE report handling at QoE pause | S5- 216417 | LS in |  | available |  |
|  |  | S3‑220030 | Non-Support of Ciphering Algorithm GEA1 | GCF | LS in |  | available |  |
|  |  | S3‑220031 | New Name for ETSI TC SCP | ETSI TC SCP | LS in |  | available |  |
|  |  | S3‑220032 | LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation" | ITU-T SG2 | LS in |  | available |  |
|  |  | S3‑220033 | LS on Energy Efficiency as guiding principle for new solutions | SP-211621 | LS in |  | available |  |
|  |  | S3‑220034 | Reply LS to GSMA Operator Platform Group on edge computing definition and integration | SP-210003 | LS in |  | available |  |
|  |  | S3‑220037 | Reply on security protection of RRCResumeRequest message | R3-221183 | LS in |  | available |  |
|  |  | S3‑220038 | LS on opens issues for NB-IoT and eMTC support for NTN | R3-221406 | LS in |  | available |  |
|  |  | S3‑220039 | Reply LS on LTE User Plane Integrity Protection | R3-221473 | LS in | >>CC\_1<<[VF] presents>>CC\_1<< | available |  |
|  |  | S3‑220040 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | other |  | available |  |
|  |  | S3‑220043 | Reply LS on energy efficiency as guiding principle for new solutions | S5-221501 | LS in |  | available |  |
|  |  | S3‑220045 | Reply LS on NTN specific User Consent | R2-2201754 | LS in |  | available |  |
|  |  | S3‑220046 | Further reply on QoE report handling at QoE pause | R2-2201862 | LS in |  | available |  |
|  |  | S3‑220047 | Reply LS on security protection of RRCResumeRequest message | R2-2201864 | LS in |  | available |  |
|  |  | S3‑220048 | LS on UE providing Location Information for NB-IoT | R2-2201957 | LS in |  | available |  |
|  |  | S3‑220049 | LS on security concerns for UE providing Location Information for NB-IoT | R2-2201958 | LS in |  | available |  |
|  |  | S3‑220050 | LS on RAN3 impacts for non-SDT handling | R2-2201977 | LS in |  | available |  |
|  |  | S3‑220051 | LS on Security for Small Data Transmission | R2-2201983 | LS in | >>CC\_1<<[VC] presents.[Chair] proposes way forward for discussion, an offline call on Tuesday, 1hr before the official CC.>>CC\_1<< | available |  |
|  |  | S3‑220052 | LS on UE location during initial access in NTN | R2-2202057 | LS in |  | withdrawn |  |
|  |  | S3‑220053 | LS on UE location during initial access in NTN | R2-2201881 | LS in |  | available |  |
|  |  | S3‑220085 | Reply LS on Security for Small Data Transmission | ZTE Corporation | LS out |  | available |  |
|  |  | S3‑220086 | Discussion on security of SDT | ZTE Corporation | discussion | >>CC\_1<<[ZTE] presents[Nokia] comments and provides way forward[Chair] proposes to have offline cc tomorrow tgo proceed.>>CC\_1<< | available |  |
|  |  | S3‑220143 | NTN - Reply LS on NTN specific user consent (R2-2201754) | Apple | LS out |  | available |  |
|  |  | S3‑220144 | NTN - Reply LS on NTN specific user consent (R2-2201958) | Apple | LS out |  | available |  |
|  |  | S3‑220151 | Discussion on Security Issues with SDT | Intel | discussion | >>CC\_1<<[Intel] presents. Fine with way forward in offline call.>>CC\_1<< | available |  |
|  |  | S3‑220152 | Reply LS on Security of Small data transmission | Intel | LS out |  | available |  |
|  |  | S3‑220165 | Reply LS on Multicast paging with TMGI | Huawei, HiSilicon | LS out |  | available |  |
|  |  | S3‑220189 | Reply LS | Huawei, HiSilicon | LS out |  | withdrawn |  |
|  |  | S3‑220190 | Reply LS on user consent for NTN | Huawei, HiSilicon | LS out |  | available |  |
|  |  | S3‑220201 | Reply LS on CT6 | THALES | LS out | >>CC\_1<<[Thales] presents>>CC\_1<< | available |  |
|  |  | S3‑220216 | Discussion integrity protection for UE capability indication in UPU | Ericsson | discussion | >>CC\_1<<[Ericsson] presents[Chair] 217 as reply LS to continue discussion.>>CC\_1<< | available |  |
|  |  | S3‑220217 | Draft reply LS on UE capability indication in UPU | Ericsson | LS out |  | available |  |
|  |  | S3‑220238 | Discussion on UE capabilities indication in UPU | Huawei, HiSilicon | discussion | >>CC\_1<<[HW] presents, >>CC\_1<< | available |  |
|  |  | S3‑220269 | Reply LS on opens issues for NB-IoT and eMTC support for NTN | Xiaomi Technology | LS out |  | available |  |
|  |  | S3‑220270 | Reply LS on User Consent Updating | Xiaomi Technology | LS out |  | available |  |
|  |  | S3‑220271 | Reply LS on NTN specific User Consent | Xiaomi Technology | LS out |  | available |  |
|  |  | S3‑220272 | Proposal for NTN Specific User Consent | Xiaomi Technology | discussion |  | available |  |
|  |  | S3‑220273 | Reply LS on security concerns for UE providing Location Information for NB-IoT | Xiaomi Technology | LS out |  | available |  |
|  |  | S3‑220302 | Draft Reply LS on LTE User Plane Integrity Protection | Ericsson | LS out | >>CC\_1<<[Ericsson] presents[HW] comments not simple to send back or not. Need to consider backward capability[VF] clarifies. [QC] comments[Chair] proposes to discuss via email and come back Wednesday.>>CC\_1<< | available |  |
|  |  | S3‑220338 | Reply LS on CT6 | Qualcomm Incorporated | LS out | >>CC\_1<<[QC] presents[Thales] clarifies based on QC’s doc[HW] asks whether would like to standardize the EAP authentication methods, credentials are different in different methods.[Thales] does not specify EAP method, but standard credential[HW] asks for clarification about other kind of credential like certificate[Thales] clarifies[HW] comments to ME.[Docomo] does not consider SA3 should be involved. [Thales] considers no need to involve SA3 from Thales point of view, but other company asks to do that.[Chair] proposes to keep discussion and come back Wednesday.>>CC\_1<< | available |  |
|  |  | S3‑220377 | Discussion on LS on Security for Small Data Transmission | Nokia Corporation | discussion | >>CC\_1<<[Nokia] presents>>CC\_1<< | available |  |
|  |  | S3‑220380 | Reply LS on Security for Small Data Transmission | Nokia Corporation | LS out |  | available |  |
|  |  | S3‑220415 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) (future proof alternative) | NTT DOCOMO INC. | CR |  | available |  |
|  |  | S3‑220416 | CR to 33.501 to protect CPSOR-CMCI information only (alternative to S3-220415) | NTT DOCOMO INC. | CR |  | available |  |
|  |  | S3‑220421 | Reply LS on Reply LS on security protection of RRCResumeRequest message | Nokia Corporation | LS out |  | available |  |
|  |  | S3‑220424 | Discussion on RAN 3 | VODAFONE | discussion | >>CC\_1<<[VF] presents>>CC\_1<< | available |  |
|  |  | S3‑220425 | Discussion on LS on security concerns for UE providing Location Information for NB-IoT | Nokia Corporation | discussion |  | available |  |
|  |  | S3‑220428 | Reply LS on Reply LS on NTN specific User Consent | Nokia Corporation | LS out |  | available |  |
|  |  | S3‑220431 | draft-Reply LS on new parameters for SOR | NTT DOCOMO INC. | LS out |  | available |  |
| 4 | Work Areas |  |  |  |  |  |  |  |
| 4.1 | New WID on Security Assurance Specification for Management Function (MnF) | S3‑220149 | Discussion paper on SCAS for 3GPP defined Management Function | Nokia Germany | discussion |  | available |  |
|  |  | S3‑220150 | Revise generic network product to support management function | Nokia Germany | CR |  | available |  |
|  |  | S3‑220153 | add annex for aspects specific to MnF network product class | Nokia Germany | CR |  | available |  |
|  |  | S3‑220172 | MnF SCAS Skeleton | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220173 | MnF SCAS Scope | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220186 | Living document for MnF SCAS: draftCR to TR 33.926 | Huawei, HiSilicon | draftCR |  | available |  |
| 4.2 | New WID on SECAM and SCAS for 3GPP virtualized network products | S3‑220121 | proposal to add scope of TR33.936 Security Assurance Methodology (SECAM) for 3GPP virtualized network products | China Mobile | pCR |  | available |  |
|  |  | S3‑220122 | proposal to add skeleton of TR33.936 Security Assurance Methodology (SECAM) for 3GPP virtualized network products | China Mobile | pCR |  | available |  |
|  |  | S3‑220123 | proposal to add scope of TR33.927 Security Assurance Specification (SCAS) threats and critical assets in 3GPP virtualized network product classes | China Mobile | pCR |  | available |  |
|  |  | S3‑220124 | proposal to add skeleton of TR33.927 Security Assurance Specification (SCAS) threats and critical assets in 3GPP virtualized network product classes | China Mobile | pCR |  | available |  |
|  |  | S3‑220125 | proposal to add scope of TS33.527 Security Assurance Specification (SCAS) for 3GPP virtualized network products | China Mobile | pCR |  | available |  |
|  |  | S3‑220126 | proposal to add skeleton of TS33.527 Security Assurance Specification (SCAS) for 3GPP virtualized network products | China Mobile | pCR |  | available |  |
| 4.3 | New WID on Mission critical security enhancements phase 3 | S3‑220056 | [33.180] R18 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | CR |  | withdrawn |  |
| 4.4 | Security Assurance Specification for Service Communication Proxy (SECOP) (Rel-17) | S3‑220386 | Reference to SCP-specific requirements | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220387 | Reference to other 3GPP specs | Nokia, Nokia Shanghai Bell | CR |  | available |  |
| 4.5 | Security Assurance Specification for 5G NWDAF (Rel-17) |  |  |  |  |  |  |  |
| 4.6 | Authentication and key management for applications based on 3GPP credential in 5G (Rel-17) | S3‑220087 | Add a Note about the Kaf refresh | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220088 | Add function description about AAnF in 4.2.1 | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220089 | Clarification on the NF consumer in 6.6.1 | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220090 | Clarification on UDM manage AKMA subscription data in 4.2.5 | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220285 | Clarification on AKMA Application key retrieval | Samsung, ZTE | CR |  | available |  |
|  |  | S3‑220286 | New AAnF application key get service without SUPI | Samsung, Verizon | CR |  | available |  |
|  |  | S3‑220301 | Clarification on indication to UE when KAF is expired | LG Electronics France | CR |  | available |  |
|  |  | S3‑220304 | Clean up for TS 33.535 | LG Electronics France | CR |  | available |  |
| 4.7 | Enhancements of 3GPP profiles for cryptographic algorithms and security protocols (Rel- 17) | S3‑220317 | Discussion on Ua security protocol identifier for PSK TLS 1.3 | Qualcomm Incorporated | discussion |  | available |  |
|  |  | S3‑220318 | Adding a Note about the new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220319 | Adding a new Ua security protocol identifier for TLS 1.3 | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220407 | Adding Reference to RFC 7235 in TS 33.203 | Ericsson | CR |  | available |  |
|  |  | S3‑220408 | LS on eCryptPr | Ericsson | LS out |  | available |  |
| 4.8 | Security Aspects of Enhancements for 5G Multicast-Broadcast Services (Rel-17) | S3‑220022 | LS on Multicast paging with TMGI | S2-2107995 | LS in |  | available |  |
|  |  | S3‑220091 | Resolve the EN in 5MBS | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220092 | Clean up for 5MBS | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220162 | Resolution of authorization issue | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220163 | update to User-plane procedure for MBS security | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220164 | Corrections and clarifications in the security mechanisms for MBS | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220184 | Secondary authentication for MBS sessions | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220225 | Clarification on AS security aspect in 5MBS | LG Electronics Inc. | CR |  | available |  |
|  |  | S3‑220292 | PDCP COUNT check for MRB | Samsung | CR |  | available |  |
|  |  | S3‑220293 | MBS capability exchange and delivery method | Samsung | CR |  | available |  |
|  |  | S3‑220294 | Security indication in MBS security context | Samsung | CR |  | available |  |
|  |  | S3‑220332 | pCR to the draft CR: EN resolution | Qualcomm Incorporated | other |  | available |  |
|  |  | S3‑220333 | Reply LS on Multicast paging with TMGI | Qualcomm Incorporated | LS out |  | available |  |
| 4.9 | Security Aspects of eNPN (Rel-17) | S3‑220017 | Reply to LS on support of PWS over SNPN | S1-214049 | LS in |  | available |  |
|  |  | S3‑220019 | Reply LS on UE capabilities indication in UPU | S2-2106703 | LS in | >>CC\_1<<[Ericsson] presents and proposes to note>>CC\_1<< | available |  |
|  |  | S3‑220020 | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | LS in | >>CC\_1<<[Ericsson] presents[Docomo] not sure whether to combine two discussion. It seems different.Proposes incoming LS sould be open and replied.Proposes to merge 217 to 431.Proposes to keep separate.[Ericsson] is also consider separate discussion.>>CC\_1<< | available |  |
|  |  | S3‑220024 | LS on support of DCS variants in UE Onboarding Architecture | S2-2109258 | LS in | [Ericsson] : proposes to discuss the reply in the thread for S3-220197 | available |  |
|  |  | S3‑220035 | Reply LS on IMEI for Non-Public Networks/Private Networks without using USIM | GSMA | LS in |  | available |  |
|  |  | S3‑220036 | Reply LS on UE capabilities indication in UPU | C1-220811 | LS in | >>CC\_1<<[Ericsson] presents>>CC\_1<< | available |  |
|  |  | S3‑220155 | Clarifcation and corrections to UE Onboarding in SNPNs | Intel | CR | MCC reminded that the comment in I.9.2.X should be removed before the document was agreed. | available |  |
|  |  | S3‑220188 | Clarification on MSK and anonymous SUPI usage | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220193 | Resolution of editor | Nokia, Nokia Shanghai Bell | other |  | withdrawn |  |
|  |  | S3‑220194 | Resolution of editor notes related SUPI usage and forwarding | Nokia, Nokia Shanghai Bell | other |  | withdrawn |  |
|  |  | S3‑220195 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | other |  | withdrawn |  |
|  |  | S3‑220196 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell | other |  | withdrawn |  |
|  |  | S3‑220197 | REPLY LS on support of DCS variants in UE Onboarding Architecture | Nokia, Nokia Shanghai Bell | LS out | [Ericsson] : updates are required | available |  |
|  |  | S3‑220215 | UDM interaction for anonymous SUCI | Ericsson | CR |  | available |  |
|  |  | S3‑220218 | Anonymous SUCI for initial access | Ericsson | CR |  | available |  |
|  |  | S3‑220219 | Removing Editor | Ericsson | CR |  | available |  |
|  |  | S3‑220220 | Removing Editor | Ericsson | CR | [Ericsson]: r1 provided (merge of S3-220220 and S3-220418) . | available |  |
|  |  | S3‑220221 | Removing Editor | Ericsson | CR | [Nokia] : Propose to merge into S3-220420[Ericsson ] : Agree to merge into S3-220420[Nokia] : Mail discussion on this CR is discontinued as the CR is merged into S3-220420. Please continue the discussion there. | available |  |
|  |  | S3‑220239 | DP-loss of control of preferred SNPN list in eNPN | Huawei, HiSilicon | discussion |  | available |  |
|  |  | S3‑220240 | SN name verification in eNPN | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220253 | Removing Editor | Ericsson | CR |  | available |  |
|  |  | S3‑220254 | Removing Editor | Ericsson | CR | [Nokia] : Propose to merge into S3-220417[Ericsson] : agree to merge in S3-220417[Nokia] : Mail discussion on this CR is discontinued as the CR is merged into S3-220417. Please continue the discussion there. | available |  |
|  |  | S3‑220255 | Removing Editor | Ericsson | CR |  | available |  |
|  |  | S3‑220256 | Removing Editor | Ericsson | CR |  | available |  |
|  |  | S3‑220257 | Editorial for the Figure on key hierarchy for Credentials Holder using AAA | Ericsson | CR |  | available |  |
|  |  | S3‑220335 | Clarifcation and corrections to UE Onboarding in SNPNs | Qualcomm Incorporated, Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220417 | Resolution of editor | Nokia, Nokia Shanghai Bell | CR | [Nokia] : S3-220254 is merged into S3-220417. R1 can be found in the draft folder. | available |  |
|  |  | S3‑220418 | Resolution of editor notes related SUPI usage and forwarding | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : Propose to merge into S3-220220[Nokia] : Accepts the proposal to merge.[Ericsson] : Mail discussion on this CR is discontinued as the CR is merged into S3-220220. Please continue the discussion there. | available |  |
|  |  | S3‑220419 | Resolution of editor notes related UDM selection | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220420 | Resolution of editor notes related to protocol between NSSAAF and AAA. | Nokia, Nokia Shanghai Bell | CR | MCC pointed out that notes must be informative, so Note X cannot give a recommendation.[Nokia] : S3-220221 is merged into S3-220420 and provided as R1 in the draft folder. The revision also addresses the comments by admin. | available |  |
|  |  | S3‑220435 | Update to Clause 1.9 for Onboarding Initial Access | Lenovo, Motorola Mobility | CR |  | available |  |
| 4.1 | Security Aspects of Enhancement of Support for Edge Computing in 5GC (Rel-17) | S3‑220029 | Reply LS on EAS and ECS identifiers | S6-212490 | LS in |  | available |  |
|  |  | S3‑220093 | Authentication based on AKMA between EEC and ECS in clause 6.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220094 | Authentication based on AKMA between EEC and EES in clause 6.3 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220137 | MEC - TS - Negotiation procedure for the authentication and authorization | Apple | pCR |  | available |  |
|  |  | S3‑220138 | MEC - TS - Authentication between EEC and ECS based on TLS-PSK | Apple | pCR |  | available |  |
|  |  | S3‑220146 | Discussion on selection between options on Edge | OPPO | discussion |  | available |  |
|  |  | S3‑220148 | New solution: Authentication algorithm selection between EEC and ECS, EEC and EES | OPPO | pCR |  | available |  |
|  |  | S3‑220154 | MEC-TS-Enhanced Authentication between EEC and ECS based on TLS-PSK addressing the key diversity issue | Apple Computer Trading Co. Ltd | pCR |  | available |  |
|  |  | S3‑220157 | Corrections to EDGE reference and editorials | Intel | pCR |  | available |  |
|  |  | S3‑220158 | Removal of EN related to identifiers for EES and ECS authentication and authorization. | Intel | pCR |  | available |  |
|  |  | S3‑220176 | Refer to User consent Requirements for MEC | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220203 | Authentication and authorization between EEC and ECS | THALES | pCR |  | available |  |
|  |  | S3‑220205 | Authentication and authoriation between EEC and EES | THALES | pCR |  | available |  |
|  |  | S3‑220231 | EC: Authentication and Authorization between EEC and ECS | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220232 | EC: Authentication and Authorization between EEC and EES | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220289 | Authentication and authorization between EEC and ECS/EES | Samsung | pCR |  | available |  |
|  |  | S3‑220315 | Specifying EEC to ECS/EES security | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220346 | Discussion on having AKMA and GBA in EC from interoperability and future-proof point of view | Ericsson | discussion |  | available |  |
|  |  | S3‑220351 | Authentication and authorization between EEC and ECS | Ericsson | pCR |  | available |  |
|  |  | S3‑220352 | Authentication and authorization between EEC and EES | Ericsson | pCR |  | available |  |
| 4.11 | TLS protocols profiles for AKMA (Rel-17) | S3‑220095 | Add description about error case in annex B | ZTE Corporation | CR |  | available |  |
| 4.12 | Security aspects of Uncrewed Aerial Systems (Rel-17) | S3‑220018 | Reply LS on 3GPP SA1 clarifications on problematic UAV | S1-214238 | LS in |  | available |  |
|  |  | S3‑220076 | Update to UUAA-MM procedure | InterDigital Finland Oy | pCR |  | available |  |
|  |  | S3‑220119 | security between UAS-NF and USS | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220120 | remove EN in 5.2.1.5 UUAA revocation | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220181 | Resolve EN about USS Identifier | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220311 | Protection of UAS NF to USS interface | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220312 | Additional of further 5G pairing cases | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220313 | Adding details of UUAA procedure in 4G | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220314 | Details of pairing in EPS | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220429 | Update to Clause 5.2.1.1 General | Lenovo, Motorola Mobility | pCR |  | available |  |
|  |  | S3‑220430 | Resolving EN for UUAA re-authentication | Lenovo, Motorola Mobility | pCR |  | available |  |
|  |  | S3‑220432 | Resolving EN for UUAA Revocation | Lenovo, Motorola Mobility | pCR |  | available |  |
|  |  | S3‑220433 | Resolving EN for UAS data security | Lenovo, Motorola Mobility | pCR |  | available |  |
|  |  | S3‑220434 | UUAA and Pairing Alignment update to 33.256 | Lenovo, Motorola Mobility | pCR |  | available |  |
| 4.13 | Security Aspects of Proximity based services in 5GS ProSe (Rel-17) | S3‑220063 | TR 33.847 Updates to conclusions for KI 2 and KI 3 | MITRE Corporation | CR |  | withdrawn |  |
|  |  | S3‑220072 | Provisioning and refresh of 5G ProSe long-term credentials | KPN N.V. | pCR |  | available |  |
|  |  | S3‑220074 | Discussion paper on provisioning and refresh of 5G ProSe long-term credentials | KPN N.V. | discussion |  | available |  |
|  |  | S3‑220079 | Update to U2N Security procedure over User Plane when using GBA Push | InterDigital Finland Oy | pCR |  | available |  |
|  |  | S3‑220080 | NSSAA for Remote UE with L3 U2N relay without N3IWF | InterDigital Finland Oy | pCR |  | available |  |
|  |  | S3‑220096 | Add a clause about key hierarchy for user plane | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220097 | Add an EN in clause 6.3.3.2.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220098 | Add some abbrevations for Prose | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220099 | Clarficaiton on PKMF act as AKMA AF in clause 6.3.3.2.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220100 | Clarification on AUSF instance store in UDM | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220101 | Clean up the step 10-14 in clause 6.3.3.3.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220102 | CR to 33.501 about AUSF instance store in UDM | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220103 | Update the PC5 key hierarchy over control plane | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220104 | Update the step 2-5 in clause 6.3.3.3.2 | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220131 | Address the EN on the UE-to-Network Relay security procedure over control plane | OPPO | pCR |  | available |  |
|  |  | S3‑220147 | Remove the EN on privacy of PRUK ID | ZTE Corporation | pCR |  | available |  |
|  |  | S3‑220161 | Procedure for secondary authentication without N3IWF | LG Electronics Inc., InterDigital | pCR |  | available |  |
|  |  | S3‑220179 | Clarification the security policy used during restricted discovery | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220180 | Security procedures for L2 UE-to-Network relay | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220182 | Resolving the ENs on authentication procedure in control plane security procedure | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220183 | Resolving the EN on the usage of 5GPRUK ID | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220185 | Clarification on procedures for PC5 establishment in UE-to-Network relay scenario | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220198 | Procedure for secondary re-authentication and revocation of Remote UE over L3 U2N Relay without N3IWF | LG Electronics Inc., InterDigital | pCR |  | available |  |
|  |  | S3‑220208 | pCR to TS33.503 Clause 3 Definitions of terms and abbreviations | CATT | pCR |  | available |  |
|  |  | S3‑220209 | pCR to TS33.503 Clause 4.2 Add new reference point between PKMF and UDM | CATT | pCR |  | available |  |
|  |  | S3‑220210 | pCR to TS33.503 Clause 6.3 Support SUCI in security procedure over User Plane | CATT | pCR |  | available |  |
|  |  | S3‑220211 | pCR to TS33.503 Clause 6.3 Update security procedure over Control Plane | CATT | pCR |  | available |  |
|  |  | S3‑220213 | pCR to TS33.503 Consistent term usage | CATT | pCR |  | available |  |
|  |  | S3‑220274 | 33.503: Corrections for Network Domain Security | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220275 | 33.503: Issues for Clarifiacation in Open Discovery | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220276 | 33.503: Proposed Changes in Model A Discovery | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220277 | 33.503: Proposed Changes in Model B Discovery | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220278 | 33.503: PC5 Security Policy Privisioned by PKMF | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220279 | 33.503: PC5 Security Policy Handling during CP-based Security Procedure | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220280 | 33.503: PC5 Security Policy for L2 U2N Relay | Xiaomi Technology | pCR |  | available |  |
|  |  | S3‑220288 | Resolving EN in ProSe CP based solution | Samsung, Interdigital, LG Electronics | pCR | >>CC\_1<<[way forward for CP-based solution][CATT] presents and asks to give answer for proposed question.[HW] comments to re-order the question, to ask group 4 question first.[Ericsson] comments on Question 1.[CATT] clarifiesQ4:[ZTE] question for clarification. What is it user for about AV on group 4?[CATT] clarifies[IDCC] comments, a new service would has less impact.[Oppo] comments 5G-AKA/EAP-AKA could not be seen as new services.[HW] comments[IDCC] comments[ZTE] considers not big issue to set as new service.Q1:Q1.1ZTE,IDCC:yesEricsson insists on No,[HW] comments[CATT] clarifies Q1.2 can answer Ericsson’s comment[IDCC] clarifies[CATT] has no strong opinion on this.[Chair] proposes to use Prose Anchor Function[HW] comments [Chair] asks whether to mitigate HW concern by making such function optional[QC] comments[IDCC] proposes to keep discussion in separate conf call until conclusion work out[Oppo] comments the impact should be either UE impact or network impact, to store PRUK/PRUK ID.[Samsung] comments[HW] is not happy to introduce Q1.1.[Chair] has concern on incomplete solution if that is the way forward proposed by HW.[HW] comments[Samsung] comments[There is no conclusion on Q1.][Chairs] asks if we want to solve this in R17, what should we do? [Chair] suggests way forward, to make merger[Chair] asks IDCC to take lead for the merger. IDCC is ok to do that.>>CC\_1<< | available |  |
|  |  | S3‑220324 | CR on PRUK ID format | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220325 | Discussion on potential security mechanisms for protecting ProSe Disocovery message | Qualcomm Incorporated | discussion |  | available |  |
|  |  | S3‑220326 | CR to ProSe TS | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220327 | CR to ProSe TS | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220328 | CR to ProSe TS | Qualcomm Incorporated | pCR |  | available |  |
|  |  | S3‑220340 | TR 33.847 | MITRE Corporation | CR |  | withdrawn |  |
|  |  | S3‑220357 | Managing and provisioning of discovery keys | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220360 | Clarification Source Authenticity | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220361 | Protection of longer discovery messages (simple) | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220362 | Protection of longer discovery messages (more efficient) | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220365 | Resolving EN in user plane solution for UE-to-network relay | Ericsson | pCR |  | available |  |
|  |  | S3‑220366 | Discussion on the SBA services to support Prose authentication | Ericsson | discussion |  | available |  |
|  |  | S3‑220367 | SBA service operations for Prose CP based solution for L3 U2N security | Ericsson | pCR |  | available |  |
|  |  | S3‑220369 | Definitation of functional entity PKMF | Ericsson | pCR |  | available |  |
|  |  | S3‑220370 | PC5 security policies in User plane solution for ProSe UE-to-network relay | Ericsson | pCR |  | available |  |
|  |  | S3‑220371 | Prose Anchor Function to handle PRUK and PRUK ID | Ericsson | pCR |  | available |  |
|  |  | S3‑220372 | Authentication flow over PC5 for Prose CP based solution for L3 U2N security | Ericsson | pCR |  | available |  |
|  |  | S3‑220373 | Update for Security Procedure of Communication with 5G ProSe Layer-2 UE-to-Network Relay | Ericsson | pCR |  | available |  |
|  |  | S3‑220374 | Correction of the reference for 5G ProSe Layer-3 UE-to-Network Relay Disocvery | Ericsson | pCR |  | available |  |
|  |  | S3‑220375 | Removal of PRUK ID in CP based solution | Ericsson | pCR |  | available |  |
|  |  | S3‑220376 | ProSe: New service operations in the user plane solution for ProSe UE-to-network relay | Ericsson | pCR |  | available |  |
|  |  | S3‑220436 | pCR to TS33.503 Add new clause for network function service description | CATT | pCR |  | available |  |
|  |  | S3‑220441 | Integrity protection for UE-to-NW relays | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220442 | Long term identifier updates for UE-to-NW relays | Philips International B.V. | pCR |  | available |  |
| 4.14 | Security Aspects of User Consent for 3GPP services (Rel-17) | S3‑220023 | Reply LS on user consent | S2-2109089 | LS in |  | available |  |
|  |  | S3‑220041 | LS on User consent Updating | R3-221210 | LS in |  | available |  |
|  |  | S3‑220175 | User consent requirements and procedures for eNA | Huawei, HiSilicon | CR | MCC reminded the authors that the word“must” is not allowed in 3GPP specifications. The CR should also be cat-B, not F since a new procedure with requirements was being added. | available |  |
|  |  | S3‑220177 | Delete Editor's Note in UC3S | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220187 | User Consent Requirements and Procedures for MEC | Huawei, HiSilicon | CR | MCC reminded the authors that the word“must” is not allowed in 3GPP specifications. The CR should also be cat-B, not F since a new procedure with requirements was being added.[Ericsson] suggest that a single line in MEC normative work for UC should be enough e.g. 'User consent for MEC shall comply with TS 33.501 (Annex V) and TS {MEC TS} | available |  |
|  |  | S3‑220378 | Reply LS on User consent Updating | Ericsson LM | LS out |  | available |  |
|  |  | S3‑220383 | User consent revocation | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220384 | User consent enforcement point | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220385 | Formatting and alignment corrections | Nokia, Nokia Shanghai Bell | CR |  | available |  |
| 4.15 | Security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) (Rel-17) | S3‑220191 | Refer to User Consent Requirements for eNA | Huawei, HiSilicon | CR |  | available |  |
| 4.16 | Security aspects of the 5GMSG Service (Rel-17) | S3‑220265 | Removal of EN in 5GMSG security | China Mobile | CR |  | available |  |
|  |  | S3‑220290 | Resolving EN on authorization in MSGin5G | Samsung | CR |  | available |  |
|  |  | S3‑220299 | Discussion on Authorization of MSGin5G Client | Samsung | discussion |  | available |  |
| 4.17 | Enhanced security for Phase 2 network slicing (Rel-17) | S3‑220013 | LS for feedback on CT6 | C6-210358 | LS in | >>CC\_1<<[Thales] presents>>CC\_1<< | available |  |
|  |  | S3‑220114 | CR for AF Authorization for accessing network slice quota-usage information | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220414 | Discussion about the NEF-AF trust model for solution #1 in TR 33.874 | Ericsson | discussion |  | available |  |
| 4.18 | New work item proposals for Rel-18 | S3‑220059 | New WID on Authentication enhancements in 5GS | JSRPC Kryptonite | WID new |  | available |  |
|  |  | S3‑220105 | Discussion on new wid on akma push function | ZTE Corporation | discussion |  | available |  |
|  |  | S3‑220106 | New WID on AKMA push function | ZTE Corporation | WID new |  | available |  |
|  |  | S3‑220118 | Rel-18 study for network slicing security | Huawei, HiSilicon | SID revised |  | available |  |
|  |  | S3‑220127 | Proposal about considerations to introduce security capability center function | China Mobile | discussion |  | available |  |
|  |  | S3‑220128 | Discussion on blockchain based approach for cross-domain certificate management in 3GPP system | China Mobile | discussion |  | available |  |
|  |  | S3‑220129 | New SID on blockchain based approach for cross-domain certification management in 3GPP system | China Mobile | SID new |  | available |  |
|  |  | S3‑220130 | New SID on security aspects of enablers for Network Automation for 5G - phase 3 | China Mobile, ZTE, Ericsson, Apple, China Unicom, CAICT, China Telecom, Cablelabs, Nokia, Nokia Shanghai Bell, CATT | SID new |  | available |  |
|  |  | S3‑220132 | Discussion on Personal IoT Networks Security Aspects | vivo | discussion |  | available |  |
|  |  | S3‑220133 | New SID on Personal IoT Networks Security Aspects | vivo, Apple, ZTE, Xiaomi, CATT, OPPO, China Unicom, China Telecom, CableLabs, InterDigital | SID new |  | available |  |
|  |  | S3‑220136 | 5GFBS- new WID on 5GFBS | Apple, US National Security Agency, AT&T, Deutsche Telekom, Ericsson, Huawei, Hisilicon, CableLabs, Intel, InterDigital, Johns Hopkins University APL, NIST, Xiaomi, OPPO | WID new |  | available |  |
|  |  | S3‑220166 | New SID on security enhancements for 5G multicast-broadcast services Phase 2 | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220167 | Discussion on security enhancements for 5GC LoCation Services Phase 3 | Huawei, HiSilicon | discussion |  | available |  |
|  |  | S3‑220168 | New SID on Enhancement of User Consent for 3GPP Services | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220169 | New WID for SCAS work to introduce R-17 features on existing functions | Huawei, HiSilicon | WID new |  | available |  |
|  |  | S3‑220170 | New SID on Home network triggerred authenticaiton | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220206 | New SID on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 2 | CATT, China Unicom, Interdigital | SID new |  | available |  |
|  |  | S3‑220228 | R18 SID on Security Enhancement of support for Edge Computing | Huawei, HiSilicon | SID new |  | available |  |
|  |  | S3‑220252 | New SID on security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson, CableLabs, InterDigital, Intel, Xiaomi, Nokia, Nokia Shanghai Bell, ZTE | SID new |  | available |  |
|  |  | S3‑220262 | New SID on enhancement of AKMA | China Mobile | SID new |  | available |  |
|  |  | S3‑220263 | New WID on SCAS for AAnF | China Mobile | WID new |  | available |  |
|  |  | S3‑220281 | New SID on Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi Technology | SID new |  | available |  |
|  |  | S3‑220282 | New SID on Security Aspects of Satellite Access | Xiaomi Technology | SID new |  | available |  |
|  |  | S3‑220297 | New SID on 5G User plane security enhancements | Samsung | SID new |  | available |  |
|  |  | S3‑220300 | R18 SID on Standardising Automated Certificate Management in SBA | Nokia Germany | SID revised |  | available |  |
|  |  | S3‑220321 | Discussion on SCAS for gNB | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | discussion |  | available |  |
|  |  | S3‑220322 | New WID on Updates to gNB SCAS including split gNBs | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | WID new |  | available |  |
|  |  | S3‑220363 | Study on Security aspects for 5WWC Phase 2 | Nokia Solutions & Networks (I) | SID new |  | available |  |
|  |  | S3‑220382 | Discussion on applying URSP rules for Authentic Applications | Lenovo, Motorola Mobility | discussion |  | available |  |
|  |  | S3‑220405 | New Study on applying URSP rules for Authentic Applications (FS\_UAutA) | Lenovo, Motorola Mobility | SID new |  | available |  |
|  |  | S3‑220410 | New SID on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NR Air Interface and NG-RAN | Ericsson | SID new |  | available |  |
|  |  | S3‑220422 | AIML Security and Privacy SID | Chengdu OPPO Mobile Com. corp. | SID new |  | available |  |
|  |  | S3‑220426 | Study on Zero Trust Security | Lenovo, Motorola Mobility, Interdigital, Verizon, Cablelabs, Mavenir, Johns Hopkins University APL, LG Electronics, Telefonica | SID new |  | available |  |
|  |  | S3‑220427 | Discussion to Study on Zero Trust Security | Lenovo, Motorola Mobility | discussion |  | available |  |
| 4.19 | Other work areas (no release restrictions) | S3‑220061 | Align GUTI allocation to best practices of unpredictable identifier generation. | Deutsche Telekom AG | CR | [Deutsche Telekom] : -r1 is available | available |  |
|  |  | S3‑220064 | OAuth2.0 misalignmnet | Mavenir | CR |  | withdrawn |  |
|  |  | S3‑220065 | OAuth2.0 misalignmnet | Mavenir | CR |  | withdrawn |  |
|  |  | S3‑220066 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | CR |  | available |  |
|  |  | S3‑220067 | Clarification when the responder SEPP establish a second N32-C connection | Mavenir | CR |  | available |  |
|  |  | S3‑220069 | [33.180] R16 Clarification requested by ETSI Plugtest | Motorola Solutions Danmark A/S | CR |  | available |  |
|  |  | S3‑220070 | [33.180] R17 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | CR |  | available |  |
|  |  | S3‑220071 | [33.180] R18 Clarification requested by ETSI Plugtest (mirror) | Motorola Solutions Danmark A/S | CR |  | available |  |
|  |  | S3‑220075 | GUTI allocation discussion paper | Deutsche Telekom AG | discussion |  | available |  |
|  |  | S3‑220082 | Integrity check during context transfer scenario 2 | NEC Telecom MODUS Ltd. | CR |  | available |  |
|  |  | S3‑220083 | Editor note removal from Annex S | Nokia, Nokia Shanghai Bell | CR | [Nokia] : -r1 is available.[Huawei] : -r1 is fine. | available |  |
|  |  | S3‑220084 | Verification of NSSAIs for preventing slice attack | CableLabs | CR |  | available |  |
|  |  | S3‑220107 | Delete EN on defining EIA7 in clause 6.6.4.3 | ZTE Corporation | CR |  | available |  |
|  |  | S3‑220109 | Verification of NSSAIs for preventing slice attack | CableLabs | CR |  | available |  |
|  |  | S3‑220117 | Serving network name in NSSAA | Huawei, HiSilicon | CR | [Ericsson] : Proposal to note. | available |  |
|  |  | S3‑220145 | CR - 33501 - Clarification on Fast re-authentication | Apple | CR | [Ericsson] : clarification needed[Nokia] : object this contribution | available |  |
|  |  | S3‑220156 | Clarification and corrections to NSWO SBI Interface methods | Intel | CR | [Nokia] : -r1 is available.[Huawei] : -r1 is fine. | available |  |
|  |  | S3‑220171 | Delete Editor's Note in NSWO | Huawei, HiSilicon | CR | [Nokia] : -r1 is available.[Huawei] : -r1 is fine. | available |  |
|  |  | S3‑220174 | Report UP IP Security Result | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220178 | Clean up for TR 33.867 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220202 | EAP ID Request in NSSAA procedure | Ericsson | discussion |  | available |  |
|  |  | S3‑220204 | EAP ID Request in NSSAA Procedure (Rel-16) | Ericsson | CR |  | available |  |
|  |  | S3‑220207 | EAP ID Request in NSSAA Procedure (Rel-17) | Ericsson | CR |  | available |  |
|  |  | S3‑220212 | LS on EAP ID Request in NSSAA Procedure | Ericsson | LS out |  | available |  |
|  |  | S3‑220214 | New WID on Security Aspects of Minimization of Service Interruption (MINT) | LG Electronics Inc. | WID new |  | available |  |
|  |  | S3‑220222 | Rel-17 SUPI Privacy for SNPN | Ericsson | CR |  | available |  |
|  |  | S3‑220223 | Rel-16 SUPI Privacy for SNPN | Ericsson | CR |  | available |  |
|  |  | S3‑220224 | Rel-17 security aspects on MINT feature | LG Electronics Inc. | CR |  | available |  |
|  |  | S3‑220227 | Editorial correction on clause 11.1.3 and 11.1.4 in TS 33.501 | LG Electronics Inc. | CR |  | available |  |
|  |  | S3‑220229 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung | CR |  | available |  |
|  |  | S3‑220233 | Clarification on IV usage on N32-f protection-R15 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220234 | Clarification on IV usage on N32-f protection-R16 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220235 | Clarification on IV usage on N32-f protection-R17 | Huawei, HiSilicon | CR |  | available |  |
|  |  | S3‑220236 | Clarification on origination of the Rel17 SCAS test cases in AMF | Huawei, Hisilicon | CR | [Ericsson] : Comment | available |  |
|  |  | S3‑220241 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR |  | available |  |
|  |  | S3‑220242 | Clarification on the format of callback URI in the NF certificate profile | Ericsson | CR |  | available |  |
|  |  | S3‑220243 | Clarification on the certificate profile for SCP and SEPP | Ericsson, Nokia, Nokia Shanghai Bell | draftCR |  | available |  |
|  |  | S3‑220244 | Multiple PLMN-IDs in the SEPP interconnect certificate profile | Ericsson | other |  | available |  |
|  |  | S3‑220245 | SEPP to include and verify the source PLMN-ID | Ericsson | draftCR |  | available |  |
|  |  | S3‑220246 | Resolving Editor's Notes in "SEPP to include and verify the source PLMN-ID" | Ericsson | other |  | available |  |
|  |  | S3‑220247 | Further alignment with TS 29.573 to clarify that N32-c is short-lived | Ericsson | CR |  | available |  |
|  |  | S3‑220248 | Further alignment with TS 29.573 to clarify that N32-c is short-lived | Ericsson | CR |  | available |  |
|  |  | S3‑220249 | Editorials suggested by Edithelp | Ericsson | CR |  | available |  |
|  |  | S3‑220250 | Removing Editor's Note on PNi-NPN security aspects | Ericsson | CR |  | available |  |
|  |  | S3‑220251 | Removing Editor's Note on PNi-NPN security aspects | Ericsson | CR |  | available |  |
|  |  | S3‑220258 | Rel-15 - Updating reference to RFC 9048 (EAP-AKA | Ericsson | CR |  | available |  |
|  |  | S3‑220259 | Rel-16 - Updating reference to RFC 9048 (EAP-AKA | Ericsson | CR |  | available |  |
|  |  | S3‑220260 | Rel-17 - Updating reference to RFC 9048 (EAP-AKA | Ericsson | CR |  | available |  |
|  |  | S3‑220261 | Discussion on the SBA service operations to support NSWO authentication | Ericsson, Thales | discussion |  | available |  |
|  |  | S3‑220266 | Update of NSWO authentication procedure and SBA service operations | Ericsson, Thales | CR |  | available |  |
|  |  | S3‑220267 | Resolve Editor Note related to co-existence of EPS NSWO | Ericsson | CR |  | available |  |
|  |  | S3‑220268 | Roaming for 5G NSWO | Ericsson | CR |  | available |  |
|  |  | S3‑220283 | Usage of AN ID for NSWO authentication | Ericsson | CR |  | available |  |
|  |  | S3‑220284 | Alternative solution for NSWO authentication | Ericsson | CR | [Nokia] : Request for clarification. | available |  |
|  |  | S3‑220291 | Authorization between MCData message store and MCData Server | Samsung | CR |  | available |  |
|  |  | S3‑220295 | Clarification to IAB in EN-DC architecture | Samsung | CR |  | available |  |
|  |  | S3‑220298 | Updates to NF profile for inter-slice access control | Samsung | CR |  | available |  |
|  |  | S3‑220303 | UP IP: No support for UP IP in LTE-LTE Dual Connectivity in Rel-17 | Ericsson | CR |  | available |  |
|  |  | S3‑220316 | Using MACS as a freshness parameter in the calculation of AK\* | Qualcomm Incorporated, Thales | CR |  | available |  |
|  |  | S3‑220320 | Adding text on preferring AKMA keys to GBA Digest | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220323 | Correcting the update to the support of GEA algorithms in Rel-11 | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220334 | Correct NAS uplink COUNT for KgNB/KeNB derivation | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220336 | Co-existence with EPS NSWO | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220337 | 5G NSWO roaming aspects | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220341 | Updating SEAL-S security | Ericsson | CR |  | available |  |
|  |  | S3‑220342 | Updating SEAL-UU security | Ericsson | CR |  | available |  |
|  |  | S3‑220343 | Profiling ACE in SEAL | Ericsson | CR |  | available |  |
|  |  | S3‑220344 | Revisiting security of SEAL interfaces | Ericsson | discussion |  | available |  |
|  |  | S3‑220345 | Correcting the implementation of approved S3-214431 to SEAL TS 33.434 | Ericsson | CR |  | available |  |
|  |  | S3‑220347 | Rel-16 CAPIF usage for SEAL-S | Ericsson | CR |  | available |  |
|  |  | S3‑220348 | Rel-17 CAPIF usage for SEAL-S | Ericsson | CR |  | available |  |
|  |  | S3‑220349 | Rel-16 Correcting SEAL-UU security | Ericsson | CR |  | available |  |
|  |  | S3‑220350 | Rel-17 Correcting SEAL-UU security | Ericsson | CR |  | available |  |
|  |  | S3‑220368 | SBA service operations for Prose L3 U2N security CP solution | Ericsson | CR |  | available |  |
|  |  | S3‑220388 | Reference to symmetric channel delay clause | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220392 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220393 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220394 | Clarification on separate handling of N32-c and N32-f | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220395 | draftCR NRF deployment was S3-214534 | Nokia, Nokia Shanghai Bell, Ericsson | draftCR |  | available |  |
|  |  | S3‑220396 | NRF deployments | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220397 | SEPP reference | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220398 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : revision needed | available |  |
|  |  | S3‑220399 | Reference to N5CW and key derivation correction | Nokia, Nokia Shanghai Bell | CR | [Ericsson] : revision needed | available |  |
|  |  | S3‑220400 | Using existing authentication services for NSWO | Nokia, Nokia Shanghai Bell | CR | [Nokia] : Proposed to merge to S3-220156. This email thread can be closed. | available |  |
|  |  | S3‑220401 | Editorial corrections to Annex F of IMS | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220402 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220403 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220404 | Clarification on unspecified expiration of AV in 5G AKA | Nokia, Nokia Shanghai Bell | CR |  | available |  |
|  |  | S3‑220411 | Update of references for the GBA related UDM service operations | Ericsson | CR |  | available |  |
|  |  | S3‑220413 | Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation | Ericsson | CR |  | available |  |
|  |  | S3‑220423 | Deletion of the usage of NGAP PATH SWITCH REQUEST ACKNOWLEDGE message for AS rekeying during Xn-Handover | NTT DOCOMO INC. | CR |  | available |  |
| 5 | Studies areas |  |  |  |  |  |  |  |
| 5.1 | Study on 5G security enhancement against false base stations | S3‑220110 | LS out on authenticity and replay protection of system information | CableLabs | LS out |  | available |  |
|  |  | S3‑220111 | Update to solution #25 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220112 | Evaluation of solution #4 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220113 | Conclusion for KI#3 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220134 | 5GFBS-Conclusion for solution#17 | Apple | pCR |  | available |  |
|  |  | S3‑220135 | 5GFBS- Draft LS to RAN plenary on the conlcusion of solution#17 | Apple | pCR |  | available |  |
|  |  | S3‑220192 | addressing the editor's notes in sol#27 | Huawei, HiSilicon, CableLabs | pCR |  | available |  |
|  |  | S3‑220305 | Addressing the editor | CableLabs | pCR |  | available |  |
|  |  | S3‑220306 | Addressing the editor | CableLabs | pCR |  | available |  |
|  |  | S3‑220307 | Addressing the editor | CableLabs | pCR |  | available |  |
|  |  | S3‑220308 | Addressing the editor | CableLabs | pCR |  | available |  |
|  |  | S3‑220309 | Addressing the editor | CableLabs | pCR |  | available |  |
|  |  | S3‑220310 | Addressing the editor | CableLabs | pCR |  | available |  |
|  |  | S3‑220353 | New Solution: Shared key based MIB/SIBs protection with enhanced protection against replay/MitM attacks | Philips International B.V. | pCR |  | available |  |
|  |  | S3‑220364 | Key Issue for Secure RRC connection setup procedure | Nokia Corporation | pCR |  | withdrawn |  |
|  |  | S3‑220406 | Detection of MitM attacks with secret paging | Lenovo, Motorola Mobility | pCR |  | available |  |
|  |  | S3‑220437 | Key Issue for Secure RRC connection setup procedure | Nokia Corporation | pCR |  | available |  |
| 5.2 | Study on Security Impacts of Virtualisation | S3‑220062 | New Solution: Confidentiality, and Integrity Protection for Container Images | MITRE Corporation | pCR |  | available |  |
|  |  | S3‑220077 | Updates to Terminology for Solution #5 | Johns Hopkins University APL, US National Security Agency | pCR |  | available |  |
|  |  | S3‑220078 | Updates to Solution #5 | Johns Hopkins University APL, US National Security Agency, CISA ECD, InterDigital | pCR |  | available |  |
| 5.3 | Study on authentication enhancements in 5GS |  |  |  |  |  |  |  |
| 5.4 | Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC | S3‑220139 | MEC - TR - Conclusion for KI#1 and KI#2. | Apple | CR |  | available |  |
|  |  | S3‑220140 | MEC - TR - Authentication between EEC and ECS based on TLS-PSK | Apple | CR |  | available |  |
|  |  | S3‑220141 | MEC - TR - Modification and Evaluation for solution#28 | Apple | CR |  | available |  |
|  |  | S3‑220142 | MEC - TR - Conclusion for key isolation issue | Apple | CR |  | available |  |
|  |  | S3‑220230 | Clean up for TR 33.839 | Huawei, HiSilicon | CR |  | available |  |
| 5.5 | Study on Security Aspects of Enhancement for Proximity Based Services in 5GS | S3‑220054 | LS to 3GPP on Identification of source PLMN-ID in SBA | GSMA | LS in |  | available |  |
|  |  | S3‑220081 | Conclusion for NSSAA support with L3 U2N | InterDigital Finland Oy | CR |  | available |  |
|  |  | S3‑220159 | Discussion on Secondary Authentication and NSSAA for Remote UE over L3 U2N relay without using N3IWF | LG Electronics Inc., InterDigital, Xiaomi, Verizon Wireless, Samsung | discussion |  | available |  |
|  |  | S3‑220160 | Conclusion for Secondary Authentication support with L3 U2N Relay | LG Electronics Inc., InterDigital | CR |  | available |  |
|  |  | S3‑220329 | Additional conclusion of KI #17 | Qualcomm Incorporated, CATT, InterDigital, Ericsson | CR | [LGE] : revision and clarification required | available |  |
|  |  | S3‑220330 | Update of conclusion for KI#5 | Qualcomm Incorporated | CR | [Philips] proposes to use S3-220440 as a basis for discussion | available |  |
|  |  | S3‑220331 | Conclusion for KI#16 | Qualcomm Incorporated | CR |  | available |  |
|  |  | S3‑220355 | Updates Key Issue #1 | Philips International B.V. | CR |  | available |  |
|  |  | S3‑220356 | Updates Solution #43 | Philips International B.V. | CR |  | available |  |
|  |  | S3‑220358 | Resolve EN in solution #44 | Ericsson | CR |  | available |  |
|  |  | S3‑220359 | Conclusion for user plane solutions for KI#3, KI#4, KI#9 | Ericsson | CR |  | available |  |
|  |  | S3‑220379 | TR 33.847 | MITRE Corporation | CR |  | available |  |
|  |  | S3‑220439 | TR 33.847 - Discussion on KI#5 conclusions | Philips International B.V. | discussion |  | available |  |
|  |  | S3‑220440 | TR 33.847 - Update to conclusions of KI#5 | Philips International B.V. | CR | [Philips] proposes to use S3-220440 as a basis for discussion on KI#5, and provides revision r1 to reflect the wording of S3-220330. | available |  |
| 5.6 | Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services |  |  |  |  |  |  |  |
| 5.7 | Study on security aspects of the 5GMSG Service | S3‑220264 | Editorial changes to TR 33.862 | China Mobile | CR |  | available |  |
| 5.8 | Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2 |  |  |  |  |  |  |  |
| 5.9 | Study on the security of AMF re-allocation | S3‑220412 | LS on full Registration Request upon AMF re-allocation | Ericsson | LS out |  | available |  |
| 5.1 | Study on Security for NR Integrated Access and Backhaul | S3‑220296 | Coversheet for TS 33.824 | Samsung | TS or TR cover |  | available |  |
| 5.11 | Study on enhanced Security Aspects of the 5G Service Based Architecture | S3‑220287 | Evaluation and Conclusion for Key Issue#9 | Samsung | pCR |  | available |  |
|  |  | S3‑220389 | New KI on N32 security in Roaming Hub scenarios | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220390 | Resolution EN authorization method negotiation per KI7-Sol9 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220391 | New sol. for KI7 on authorization mechanism negotiation | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220409 | Resolution EN on NF Set per KI6-Sol7 | Nokia, Nokia Shanghai Bell | pCR |  | available |  |
|  |  | S3‑220438 | New KI for Authentication of PLMNs over IPX | CableLabs | pCR |  | available |  |
| 5.12 | Study on enhanced security for network slicing Phase 2 | S3‑220115 | conclusion for KI#1 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220116 | updates to KI#2 | Huawei, HiSilicon | pCR |  | available |  |
|  |  | S3‑220199 | eNS2: Key Issue #2 update | Xiaomi Communications | pCR |  | withdrawn |  |
|  |  | S3‑220200 | eNS2: Key Issue #2 update | Xiaomi Communications | pCR |  | available |  |
|  |  | S3‑220226 | eNS2\_Solution #1Update | Xiaomi Communications | pCR |  | available |  |
| 5.13 | Study on non-seamless WLAN Offload in 5GS using 3GPP credentials | S3‑220021 | Reply LS on proposed NSWO architecture | S2-2107859 | LS in |  | available |  |
|  |  | S3‑220042 | Addressing several issue from MCC and EditHelp for TR 33.811 | Nokia, Nokia Shanghai Bell | CR |  | available |  |
| 5.14 | Study on privacy of identifiers over radio access | S3‑220044 | TR 33.870 - Skeleton | InterDigital, Inc. | draft TR |  | available |  |
|  |  | S3‑220055 | TR 33.870 - Scope | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑220057 | TR 33.870 | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑220058 | TR 33.870 - References | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑220060 | TR 33.870 - Abbreviations | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑220068 | TR 33.870 | InterDigital, Inc. | pCR |  | available |  |
|  |  | S3‑220073 | New key issue on SUPI length disclosed by SUCI | Ericsson LM | pCR |  | available |  |
|  |  | S3‑220108 | New KI privacy protection of SUCI | China Southern Power Grid Co., Ltd, ZTE Corporation | other |  | available |  |
| 5.15 | Study on Standardising Automated Certificate Management in SBA | S3‑220237 | New Key issue on automated certificate management for SBA NF | Huawei, Hisilicon | pCR |  | available |  |
|  |  | S3‑220339 | Scope for Automated Certificate Management in SBA TR | Nokia Germany | pCR |  | available |  |
|  |  | S3‑220354 | Introduction for Automated Certificate Management in SBA TR | Nokia Germany | pCR |  | available |  |
|  |  | S3‑220381 | Skeleton for Automated Certificate Management in SBA TR | Nokia Germany | pCR |  | available |  |
| 6 | CVD and research |  |  |  |  |  |  |  |
| 7 | Any Other Business |  |  |  |  |  |  |  |