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| --- | --- | --- | --- | --- | --- | --- |
| **Agenda**  | **TDoc** | **Title**  | **Source**  | **Notes** | **Decision**  | **Replaced-by**  |
| 1 | S3‑230001 | Agenda  | SA WG3 Chair  | 　>>CC\_1<<Chair announces the agenda is approved.>>CC\_1<< | available  |    |
|    | S3‑230002 | Process for SA3#109Adhoc-e  | SA WG3 Chair  | 　 | available  |    |
|    | S3‑230003 | Process and agenda planning for SA3#109AdHoc-e  | SA WG3 Chair  | 　 | available  |    |
| 2 |  |    |    | 　 |    |    |
| 3 | S3‑230005 | LS on U2N relay direct link setup failure due to RSC mismatch or integrity failure  | C1-226908  | 　>>CC\_1<<[QC] presents.Chair asks how to proceed.[QC] proposes to keep open and discuss in this meeting, and try to work out a draft reply.[IDCC] asks question about release.[QC] clarifies it is R-18.[IDCC] comments and proposes to postpone.[Huawei] has similar concern with IDCC. It should be R-17 issue rather than R-18.Chair suggests to give a reply LS with clarification questions rather than keeping silent.[IDCC] comments reply LS should be a solution related LS.[QC] clarifies it is not FASMO issue so keep it in R-18.Chair suggests to keep discussion and try to give some feedback, even it is not direct answer for the question.>>CC\_1<< | available  |    |
|    | S3‑230006 | Reply LS on the progress and open issues for NPN enhancements in Rel-18  | C1-227157  | 　>>CC\_1<<[Ericsson] presents.Chair proposes to note this.**1st challenge deadline.**>>CC\_1<< | available  |    |
|    | S3‑230009 | Reply LS on Progress and open issues for NPN enhancements in Rel-18  | S1-223540  | 　 | available  |    |
|    | S3‑230008 | LS on user consent of Non-public Network  | R3-226006  | 　>>CC\_1<<[QC] gives a brief introduction about its status. 303 is draft reply LS, will be re-visited on Thursday.>>CC\_1<< | available  |    |
|    | S3‑230303 | Reply LS on user consent of Non-public Network  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230007 | LS on SL positioning groupcast and broadcast  | R2-2213142  | 　>>CC\_1<<VC presents.312/299/356/357 is related draft reply.[Xiaomi] proposes to merge draft reply.>>CC\_1<< | available  |    |
|    | S3‑230312 | Reply LS to R2-2213142 on SL positioning  | Apple  | 　[Xiaomi]: proposes to merge S3-230312 with S3-230299, S3-230356, S3-230357>>CC\_1<<Chair requests to give summaries for each contribution.[Apple] summaries all 4 contributions, small different opinions, proposes to keep email discussion to find a way forward.[CATT] comments the draft reply could be made in this meeting or next meeting.Chair encourages to have conclusion in this meeting.[Xiaomi] comments, it still needs time to study solution.[Huawei] comments. Clarification may be needed, for groupcast/broadcast or groupcast+broadcast.[CATT] gives clarification.Chair proposes Apple to hold the pen.>>CC\_1<< | available  |    |
|    | S3‑230356 | Reply LS on SL positioning groupcast and broadcast  | CATT  | 　[Xiaomi]: proposes to merge S3-230356 with S3-230299, S3-230312, S3-230357 | available  |    |
|    | S3‑230357 | [Draft] Reply LS on SL positioning groupcast and broadcast  | Xiaomi Technology  | 　[Xiaomi]: proposes to merge S3-230357 with S3-230299, S3-230312, S3-230356 | available  |    |
|    | S3‑230299 | reply LS on SL positioning groupcast and broadcast  | Qualcomm Incorporated  | 　[Xiaomi]: proposes to merge S3-230299 with S3-230312, S3-230356, S3-230357 | available  |    |
|    | S3‑230010 | Reply LS on the impact of MSK update on MBS multicast session update procedure  | S2-2209287  | 　>>CC\_1<<[Huawei] proposes to postpone to next meeting as R-17 meeting and waiting for a CR for reply.>>CC\_1<< | available  |    |
|    | S3‑230040 | LS on MOCN TMGI ID impacting MSK, MTK  | Nokia, Nokia Shanghai Bell  | 　[Ericsson] : Proposed to note.>>CC\_1<<[Nokia] presents.[Ericsson] comments it is not needed.[Huawei] proposes to move this LS proposal to MBS study and decide based on discussion.>>CC\_1<< | available  |    |
|    | S3‑230011 | LS on impact of URSP rule enforcement report to 5GC  | S2-2209327  | 　>>CC\_1<<VC presents.[Huawei] introduces status, proposes to keep discussion.[Google] has same opinion.[VF] comments.[Apple] comments there is no draft reply, and SA2 has another approach, proposes to wait about SA2’s progress in this same week.Chair asks to give some answers as it has action for SA3. Chair requests to Huawei to hold pen for draft reply.>>CC\_1<< | available  |    |
|    | S3‑230012 | Reply LS on how ML model integrity, confidentiality and availability is supported between NWDAFs from different vendors  | S2-2210943  | 　>>CC\_1<<[CMCC] presents and proposes to note.Chair proposes to note.**1st challenge deadline.**>>CC\_1<< | available  |    |
|    | S3‑230013 | Slice based Steering of Roaming  | S2-2211204  | 　>>CC\_1<<[Huawei] proposes to note.Chair proposes to note.**1st challenge deadline.**>>CC\_1<< | available  |    |
|    | S3‑230014 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network  | S6-223487  | 　>>CC\_1<<[Huawei] proposes to note.>>CC\_1<< | available  |    |
|    | S3‑230015 | LS reply on SNAAPP requirements clarifications  | S6-223488  | 　>>CC\_1<<[Docomo] presents and proposes to note.Chair proposes to note.**1st challenge deadline.**>>CC\_1<< | available  |    |
|    | S3‑230016 | LS reply on CAPIF authorization roles related to FS\_SNAAPP  | S6-223489  | 　>>CC\_1<<[Docomo] presents.Chair proposes to note.**1st challenge deadline.**>>CC\_1<< | available  |    |
|    | S3‑230017 | LS on the use of a non-network defined identifier for UE identification  | S6-223558  | 　>>CC\_1<<[Apple] presents.(Keep draft reply LS/310 open.)>>CC\_1<< | available  |    |
|    | S3‑230310 | Reply LS to S3-230017/S6-223558 on the use of a non-network defined identifier for UE identification  | Apple  | 　 | available  |    |
|    | S3‑230018 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network  | S6-223586  | 　>>CC\_1<<[Apple] presents.(Keep draft reply LS/311 open.)>>CC\_1<< | available  |    |
|    | S3‑230311 | Reply LS to S3-230018/S6-223586 on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network  | Apple  | 　 | available  |    |
| 5 |  |    |    | 　 |    |    |
| 5.1 |  |    |    | 　 |    |    |
| 5.2 |  |    |    | 　 |    |    |
| 5.3 | S3‑230294 | LS on UE-to-UE relay discovery direct discovery  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230103 | Update the KI#6  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230028 | Evaluation TR 33.740 Sol #1  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230029 | Evaluation TR 33.740 Sol #12  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230030 | Evaluation TR 33.740 Sol #13  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230031 | Evaluation TR 33.740 Sol #14  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230104 | New solution for the KI#6  | ZTE Corporation  | 　[Ericsson] : provides comments and further clarification is needed[ZTE] : provides clarification. | available  |    |
|    | S3‑230126 | Resolving EN for Solution 22  | OPPO  | 　 | available  |    |
|    | S3‑230185 | Address EN for So#l26  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230186 | Evaluate to the solution #20  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230187 | Evaluate to the solution #26  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230191 | Add Evaluation for ProSe Security Sol#6  | OPPO  | 　 | available  |    |
|    | S3‑230207 | evaluation of TR33.740 Solution 8  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230212 | evaluation of TR33.740 Solution 11  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230215 | pCR to update TR33.740 Solution 11  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230219 | evaluation to TR33.740 Solution 9  | China Telecom Corporation Ltd.  | 　[China Telecom] : Provided r1. | available  |    |
|    | S3‑230221 | Update to the evaluation of solution 23  | China Telecom Corporation Ltd.  | 　[China Telecom] : Provided r1. | available  |    |
|    | S3‑230234 | Update to the evaluation of solution 24  | China Telecom Corporation Ltd.  | 　[China Telecom] : Provided r1. | available  |    |
|    | S3‑230253 | EN removal for solution#27  | Nokia, Nokia Shanghai Bell  | 　[Ericsson] : provides comments and discuss potential merger | available  |    |
|    | S3‑230254 | Resolve EN’s in Solution #27  | Ericsson  | 　 | available  |    |
|    | S3‑230255 | Evaluation to Solution #27  | Ericsson  | 　 | available  |    |
|    | S3‑230256 | Evaluation to solution #4  | Ericsson  | 　 | available  |    |
|    | S3‑230257 | Update to solution #30  | Ericsson  | 　 | available  |    |
|    | S3‑230258 | New security solution on discovery integrated into PC5 link establishment when L3 UE-to-UE relay is in coverage  | Ericsson  | 　 | available  |    |
|    | S3‑230266 | ProSe - Evaluation Solution #10  | Philips International B.V.  | 　 | available  |    |
|    | S3‑230267 | ProSe - Editorials Solution #10  | Philips International B.V.  | 　 | available  |    |
|    | S3‑230268 | ProSe - Evaluation Solution #15  | Philips International B.V.  | 　 | available  |    |
|    | S3‑230292 | Updates on the solution #23  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230293 | Updates on the solution #24  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230295 | Add an evaluation of solution #8  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230296 | Add an evaluation of solution #9  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230297 | Add an evaluation of solution #11  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230298 | Updates to the solution #25  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230327 | EN Resolution and Evaluation of Sol #19  | Samsung  | 　 | available  |    |
|    | S3‑230328 | EN Resolutions and Evaluation of Sol #29  | Samsung  | 　 | available  |    |
|    | S3‑230345 | pCR to TR33.740 Update Solution16 for removing ENs  | CATT  | 　 | available  |    |
|    | S3‑230346 | pCR to TR33.740 Update Solution17 for removing ENs  | CATT  | 　 | available  |    |
|    | S3‑230347 | pCR to TR33.740 Update Solution18 for removing ENs and add evaluation  | CATT  | 　 | available  |    |
|    | S3‑230348 | pCR to TR33.740 Update Solution28 for removing ENs  | CATT  | 　 | available  |    |
|    | S3‑230349 | pCR to TR33.740 Evaluation of Solution28  | CATT  | 　 | available  |    |
|    | S3‑230392 | Update to solution #8 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230393 | Update to solution #9 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230394 | Evaluation of solution #8 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230395 | Evaluation of solution #9 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230396 | Remove the Editor's Note and evaluate the solution #7 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230397 | Remove the Editor's Notes of solution #20 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230398 | Evaluation of solution #30 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230216 | Conclusion to the KI#1  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230350 | pCR to TR33.740 Conclusion of key issue #1  | CATT  | 　 | available  |    |
|    | S3‑230399 | Conclusion on Key Issue #1 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230032 | Update to TR 33.740 Conclusion for KI#2  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230188 | conclude to KI #2  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230235 | Update to conclusion of KI#2 in TR 33.740  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230351 | pCR to TR33.740 Conclusion of key issue #2  | CATT  | 　 | available  |    |
|    | S3‑230400 | Conclusion on Key Issue #2 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230352 | pCR to TR33.740 Conclusion of key issue #3  | CATT  | 　[CATT]: Provide r1 for adding missed existing content in clause 7.3 of TR 33.740. | available  |    |
|    | S3‑230401 | Conclusion on Key Issue #3 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230033 | Update to TR 33.740 Conclusion for KI#4  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230402 | Conclusion on Key Issue #4 in TR 33.740  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230105 | Conclusion for the KI#6  | ZTE Corporation  | 　 | available  |    |
| 5.4 |  |    |    | 　 |    |    |
| 5.5 |  |    |    | 　 |    |    |
| 5.6 | S3‑230056 | Discussion on privacy issue in AKMA  | Nokia, Nokia Shanghai Bell, Samsung  | 　 | available  |    |
|    | S3‑230057 | key issue on AKMA privacy  | Nokia, Nokia Shanghai Bell, Samsung  | 　 | available  |    |
|    | S3‑230325 | Key Issue on KAF refresh  | Samsung  | 　 | available  |    |
|    | S3‑230112 | update the Key issue of AKMA roaming  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230420 | adding new use case in KI1  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230058 | conclusion updates  | Nokia, Nokia Shanghai Bell  | 　[NDRE]: disagrees with removing editor's note | available  |    |
|    | S3‑230111 | Conclusion for KI#1  | ZTE Corporation  | 　[Nokia]: asking for clarification | available  |    |
|    | S3‑230197 | add new conclusion to key issue#1  | Huawei, HiSilicon  | 　[Nokia]: disagree with the pCR | available  |    |
|    | S3‑230275 | Conclusion to Key Issue #1  | THALES  | 　 | available  |    |
|    | S3‑230376 | TR 33.737 Conclusion for KI #1  | Xiaomi communications  | 　[NDRE]: comments | available  |    |
|    | S3‑230106 | Add editors note to solution 5  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230107 | Add editors note to solution 11  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230108 | Address EN for solution 9  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230109 | AUSF stores SN ID after primary authentication in solution 1  | ZTE Corporation  | 　[Nokia]: asking for clarification | available  |    |
|    | S3‑230110 | AUSF stores SN ID after primary authentication in solution 6  | ZTE Corporation  | 　[Nokia]: asking for clarification | available  |    |
|    | S3‑230145 | Minor editorial corrections in Solution #5  | LG Electronics  | 　 | available  |    |
|    | S3‑230146 | Minor editorial corrections in Solution #12  | LG Electronics  | 　 | available  |    |
|    | S3‑230147 | Evaluation for Solution #5  | LG Electronics  | 　 | available  |    |
|    | S3‑230148 | Evaluation for Solution #12  | LG Electronics  | 　 | available  |    |
|    | S3‑230270 | AKMA - Evaluation Solution #10  | Philips International B.V.  | 　 | available  |    |
|    | S3‑230274 | Completion of solution #14  | THALES  | 　[Nokia]: asking for clarification[NDRE]: agrees with Nokia and adds comments/suggestions | available  |    |
|    | S3‑230374 | new Sol on AKMA roaming in multiple registration scenarios  | Xiaomi communications  | 　[Nokia]: asking for clarification | available  |    |
|    | S3‑230375 | TR 33.737 Evaluation for sol #15  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230271 | AKMA - Editorials Clause 4  | Philips International B.V.  | 　 | available  |    |
| 5.7 | S3‑230198 | Delete EN in solution#4  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230199 | Delete EN in solution#9  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230326 | Update on use case clause and solution #6  | Samsung  | 　 | available  |    |
|    | S3‑230200 | Delete EN in solution#12  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230411 | Solution 12 updates  | Ericsson  | 　 | available  |    |
|    | S3‑230059 | Discussion paper for MPS support over WLAN and relationship with HNTRA  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230060 | Conclusion enhancement for MPS support over WLAN  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230113 | Add conclusion to KI#1  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230291 | Proposed addition to the conclusions  | Qualcomm Incorporated  | 　[Deutsche Telekom] : Supports the proposed addition to the conclusion. | available  |    |
| 5.8 | S3‑230262 | LS on data and analytics exchange in roaming case in eNA  | China mobile  | 　 | available  |    |
|    | S3‑230081 | Evaluation of Solution#4  | Lenovo  | 　 | available  |    |
|    | S3‑230082 | Removal of EN in Solution#4  | Lenovo  | 　 | available  |    |
|    | S3‑230091 | Evaluation for solution#1  | China Telecommunications  | 　 | available  |    |
|    | S3‑230101 | Resolving EN in solution#1  | China Telecommunications  | 　 | available  |    |
|    | S3‑230237 | EN related to Key Refresh and revocation  | Intel  | 　 | available  |    |
|    | S3‑230240 | ENs resolving and evaluation for solution #10  | Ericsson  | 　 | available  |    |
|    | S3‑230241 | Evaluation to Solution #11  | Ericsson  | 　 | available  |    |
|    | S3‑230242 | Evaluation to Solution #12  | Ericsson  | 　 | available  |    |
|    | S3‑230243 | Evaluation to Solution #13  | Ericsson  | 　 | available  |    |
|    | S3‑230341 | Discussion paper on KI#3 related solutions evaluation.  | Nokia, Nokia Shanghai Bell, China Mobile (Suzhou) Software  | 　[Nokia]: asks for endorsing this discussion paper to have a working base for normative phase | available  |    |
|    | S3‑230263 | Evaluation and EN resolving for solution #14  | China mobile  | 　 | available  |    |
|    | S3‑230102 | New solution to KI#2  | China Telecommunications  | 　 | available  |    |
|    | S3‑230209 | FL GROUP AUTHORIZATION OF NWDAF(S) IN 5GC  | Intel  | 　 | available  |    |
|    | S3‑230239 | New solution for KI#2 to support authorization of participant NWDAFs in FL  | Ericsson  | 　 | available  |    |
|    | S3‑230343 | Solution for authorization in FL  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230123 | New solution to KI#5  | China Telecommunications  | 　 | available  |    |
|    | S3‑230064 | Update to Solution #9 in eNA  | Lenovo  | 　 | available  |    |
|    | S3‑230340 | Evaluation for Solution #6  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230065 | Cyber attack detection  | Lenovo  | 　 | available  |    |
|    | S3‑230080 | New solution addressing KI#6  | Lenovo, Nokia  | 　 | available  |    |
|    | S3‑230264 | Conclusion for key issue#1  | China mobile  | 　[Nokia]: Proposes to align the conclusion for KI#1 with SA2 study conclusions. | available  |    |
|    | S3‑230342 | Adding conclusion on KI#1  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230189 | Conclusion for KI#2  | Intel  | 　 | available  |    |
|    | S3‑230203 | Conclusion for KI#3  | Intel  | 　[Nokia]: Proposes to merge this contribution into S3-230344. A review of S3-230344 can be provided accordingly. | available  |    |
|    | S3‑230244 | Adding conclusion on KI#3  | Ericsson  | 　[Nokia]: Proposes to merge this contribution into S3-230344 | available  |    |
|    | S3‑230344 | Adding conclusion on KI#3  | Nokia, Nokia Shanghai Bell, China Mobile (Suzhou) Software  | 　 | available  |    |
|    | S3‑230265 | Conclusion for key issue#5  | China mobile  | 　 | available  |    |
|    | S3‑230179 | new pcr  | Huawei, HiSilicon  | 　 | withdrawn  |    |
| 5.9 | S3‑230097 | Conclusion on KI#2.1  | Huawei, HiSilicon, Thales  | 　>>CC\_1<<[Huawei] proposes way forward about contributions as rapporteur, proposes to discuss all conclusions at first.[Huawei] presents.[Huawei] proposes to merge all other conclusions into this one.[Samsung] comments.[Huawei] asks question for clarification.Chair proposes way forward. Request HW to hold the pen for all 2.1 conclusion proposals. And revisit this on Thursday. If needed we will go for show of hands.[Docomo] asks questions and comment, requests to have a clear description, what is default, what is optional, even after merge.>>CC\_1<< | available  |    |
|    | S3‑230228 | Conclusion for KI#2.1  | Ericsson  | 　>>CC\_1<<[Ericsson] presents.>>CC\_1<< | available  |    |
|    | S3‑230333 | Conclusion for KI#2.1  | Samsung  | 　>>CC\_1<<[Samsung] presents.>>CC\_1<< | available  |    |
|    | S3‑230377 | Conclusion for KI 2.1 Authentication and authorization of the EEC UE by the ECS EES.  | Xiaomi communications  | 　>>CC\_1<<[Xiaomi] presents.>>CC\_1<< | available  |    |
|    | S3‑230224 | A new solution for EEC authentication utilizing tokens  | Ericsson  | 　 | available  |    |
|    | S3‑230226 | Resolving ENs in solution#13  | Ericsson  | 　 | available  |    |
|    | S3‑230227 | Resolving ENs in solution#14  | Ericsson  | 　 | available  |    |
|    | S3‑230331 | Solution on Public key signature based authentication  | Samsung  | 　 | available  |    |
|    | S3‑230380 | TR 33.379 Resolve ENs for sol #1 and #2  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230098 | Conclusion on KI#2.2  | Huawei, HiSilicon, Thales  | 　>>CC\_1<<[Huawei] presents.[Huawei] asks whether Samsung can accept TLS 1.3. Currently majority supports TLS1.3, only Samsung disagree with this.[Samsung] clarifies its objection.>>CC\_1<< | available  |    |
|    | S3‑230114 | Add conclusion to KI#2.2  | ZTE Corporation  | 　>>CC\_1<<[ZTE] presents.>>CC\_1<< | available  |    |
|    | S3‑230202 | Conclusion for KI 2.2 of EDGE Security  | OPPO  | 　>>CC\_1<<[Oppo] presents.>>CC\_1<< | available  |    |
|    | S3‑230229 | Conclusion for KI#2.2  | Ericsson  | 　>>CC\_1<<[Ericsson] presents.>>CC\_1<< | available  |    |
|    | S3‑230334 | Conclusion for KI#2.2  | Samsung  | 　>>CC\_1<<[Samsung] presents.[Huawei] has questions.[Samsung] clarifies, is ok trying to merge TLS 1.3, but has concerns.Chair asks Samsung to hold the pen to make merger.[QC] comments.[Docomo] asks Tdoc#.to watch for the merger. Chair].---334 is baseline for merger. Please organize the merger proposal, so that it is clear how to go for a show of hands if required.>>CC\_1<< | available  |    |
|    | S3‑230378 | Conclusion for KI 2.2 Authentication mechanism selection between EEC and ECSEES  | Xiaomi communications  | 　>>CC\_1<<[Xiaomi] presents.>>CC\_1<< | available  |    |
|    | S3‑230115 | Add evaluation to solution #6  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230158 | Addressing the ENs in solution 15  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230159 | Addressing the ENs in solution 16  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230160 | Evaluation to solution 15  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230161 | Evaluation to solution 16  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230192 | Address an EN in Sol #11  | OPPO  | 　 | available  |    |
|    | S3‑230204 | Resolving ENs in solution #9 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230206 | Resolving ENs in solution #10 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230208 | Resolving ENs in solution #11 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230210 | Address an EN in Sol #9 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230211 | Address an EN in Sol #10 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230213 | Address some ENs in Sol #11 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230214 | Add evaluation in Sol#11 of EDGE security  | OPPO  | 　 | available  |    |
|    | S3‑230225 | Updating solution #17  | Ericsson  | 　 | available  |    |
|    | S3‑230287 | Resolving the ENs in solution #22  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230288 | Providing evaluation for solution #22  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230332 | Evaluation for solution#22  | Samsung  | 　 | available  |    |
|    | S3‑230289 | Common authentication method between EEC and ECS/EES  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230329 | Resolving EN in solution#3 (TR 33.739)  | Samsung  | 　 | available  |    |
|    | S3‑230330 | Resolving EN and updating evaluation in solution#4 (TR 33.739)  | Samsung  | 　 | available  |    |
|    | S3‑230379 | TR 33.379 Evaluation for Sol #5  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230381 | TR 33.379 Resolve ENs for Sol #5  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230037 | New Solution of authorization for EDGE-9 reference point  | InterDigital Communications  | 　 | available  |    |
|    | S3‑230099 | Conclusion on KI#2.6  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230307 | MEC - New key issue on secure retrieve of UE ID  | Apple  | 　[Nokia]: Supports the contribution, confirms the co-signing, and asks for small (typo, wording) corrections. | available  |    |
|    | S3‑230308 | MEC - Discussion paper on enformcement of AF specific identifier  | Apple  | 　 | available  |    |
|    | S3‑230309 | MEC - LS to SA2 on enforcement of AF specific identifier  | Apple  | 　 | available  |    |
|    | S3‑230162 | A new KI for security about EAS discovery procedure via V-EASDF  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230163 | A new solution to security about EAS discovery procedure via V-EASDF  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230164 | Conclusion on KI1.x Security about EAS discovery procedure via V-EASDF  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230100 | Adding the overview of the EDGE  | Huawei, HiSilicon  | 　 | available  |    |
| 5.1 | S3‑230042 | New solution for PINE authentiation with information provided by PEMC  | vivo  | 　 | available  |    |
|    | S3‑230043 | New solution for conditional PINE authorization by PEMC  | vivo  | 　 | available  |    |
|    | S3‑230044 | New solution for PINE authentiation over 5G UP  | vivo  | 　 | available  |    |
|    | S3‑230079 | KI#1 New Sol for local PINE authentication  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230386 | KI #2, new Sol on AF authorization in PIN scenarios  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230045 | Update solution for PINE authentication and authorization over 5G CP  | vivo  | 　 | available  |    |
|    | S3‑230157 | Addressing the editor's note in solution 1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230305 | Resolution of EN#1 in Solution#7 for KI#1  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230306 | Resolution of EN#2 in Solution#7 for KI#1  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230385 | TR 33.882 Resolve ENs for sol #5  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230046 | Evaluation on Sol#6  | vivo  | 　 | available  |    |
|    | S3‑230118 | Add evaluation for solution#4  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230269 | PIN - Evaluation Solution #4  | Philips International B.V.  | 　 | available  |    |
|    | S3‑230047 | Interim conclusions on KI#1  | vivo  | 　 | available  |    |
|    | S3‑230116 | Add conclusion for KI#1  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230201 | Propose conclusion to KI#1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230117 | Add conclusion for KI#2  | ZTE Corporation  | 　 | available  |    |
| 5.11 | S3‑230337 | Update of Key Issue #2  | Samsung  | 　 | available  |    |
|    | S3‑230172 | Address EN for solution 1: onboarding  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230173 | Address EN for solution 1: detail for token  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230174 | Address EN for solution 1: authorization decision  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230175 | Evaluation Update on Solution 1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230421 | pCR to 33.884 updating solution #2  | NTT DOCOMO INC.  | 　 | available  |    |
|    | S3‑230074 | Sol#3 Resolution of EN on root certificate provisioning  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230075 | Sol#3 Resolution of EN on cross UE API access  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230076 | Sol#3 Resolution of EN on Uastar protocol  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230077 | Sol#3 Resolution of EN on Mutual Authentication  | Nokia, Nokia Shanghai Bell  | 　[Nokia] : clarifies that mutual authentication between client and API is not part of OAuth security model. | available  |    |
|    | S3‑230078 | Sol#3 Resolution of EN on Client Credential Grant  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230069 | Update to Solution #4 in SNAAPPY  | Lenovo  | 　 | available  |    |
|    | S3‑230070 | Solution to address KI#2  | Lenovo  | 　 | available  |    |
|    | S3‑230176 | New Solution on OAuth2.0 Token Revocation  | Huawei, HiSilicon  | 　[Samsung] : requests clarification before approval. | available  |    |
|    | S3‑230230 | A solution for authorization before allowing access to resources  | Ericsson  | 　[Samsung] : requests clarification before approval.[Ericsson] : provides clarification[Samsung] : requests more clarification before approval. | available  |    |
|    | S3‑230338 | New Solution on Resource owner Authorization in API Invocation using OAuth 2.0 Authorization Code Grant  | Samsung  | 　 | available  |    |
|    | S3‑230339 | New Solution on Resource owner Authorization in API Invocation  | Samsung  | 　 | available  |    |
|    | S3‑230389 | KI#2, New Sol OAuth 2.0 based API invocation procedure  | Xiaomi communications  | 　[Samsung] : requests clarification before approval. | available  |    |
|    | S3‑230390 | KI#2, New Sol on User authorization revocation for API invocation procedure  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230391 | KI#2, New Sol UE credential based API invocation procedure  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230422 | pCR to 33.884 adding new solution: PKCE flow  | NTT DOCOMO INC.  | 　 | available  |    |
|    | S3‑230423 | pCR to 33.884 adding new solution: token validation  | NTT DOCOMO INC.  | 　[Samsung] : requests clarification before approval.[Xiaomi] : requests clarification before approval. | available  |    |
|    | S3‑230071 | Conclusion to KI#1 in SNAAPPY  | Lenovo  | 　 | available  |    |
|    | S3‑230072 | Conclusion to KI#2 in SNAAPPY  | Lenovo  | 　 | available  |    |
|    | S3‑230178 | Conclusion for key issue #2  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230177 | Role mapping from TR 23.700-95  | Huawei, HiSilicon  | 　[Samsung] : requests clarification before approval. | available  |    |
| 5.12 | S3‑230085 | Discussion on KI#1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230061 | Update to KI#1 Providing VPLMN slice information to roaming UE  | Lenovo  | 　 | available  |    |
|    | S3‑230086 | KI#1 update  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230121 | Update to KI#1 providing VPLMN slice information to roaming UE  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230276 | Key Issue #1  | THALES  | 　 | available  |    |
|    | S3‑230062 | Solution to KI#1 eNS  | Lenovo  | 　 | available  |    |
|    | S3‑230088 | New solution to KI#1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230119 | New solution to KI#1 protecting SoR container from UDM to UE  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230120 | New solution to KI#1 protecting UE assistance information  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230249 | update to KI#2 temporary network slice  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230387 | KI #2 update for partly allowed rejected S-NSSAI  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230250 | solution for KI#2 temporary network slice for NSSAA  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230388 | New Sol on authorization mechanism for partly rejected S-NSSAI  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230087 | Update to KI#3  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230251 | update to KI#3 network slice admission control  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230252 | security solution for KI#3 network slice admission control  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230089 | New key issue on SoR AF  | Huawei, HiSilicon  | 　[Deutsche Telekom] : Supports the new key issue.[Ericsson] : Not sure if this new key issue is needed. | available  |    |
|    | S3‑230090 | New solution to prevent S-NSSAI leakage  | Huawei, HiSilicon  | 　 | available  |    |
| 5.13 | S3‑230054 | solution 5 update  | Nokia, Nokia Shanghai Bell, Lenovo  | 　 | available  |    |
|    | S3‑230055 | solution 6 update  | Nokia, Nokia Shanghai Bell, Lenovo  | 　 | available  |    |
|    | S3‑230063 | Evaluation to Solution #8  | Lenovo  | 　 | available  |    |
|    | S3‑230193 | A new solution on KI#4  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230051 | TNAP mobility architecture assumptions  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230285 | Resolving the editor’s note in solution #7  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230286 | Evaluation of solution #7  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230416 | Key issue on authentication of N5CW devices behind RG  | CableLabs, Nokia, Nokia Shanghai Bell, Rogers Communications  | 　 | available  |    |
|    | S3‑230417 | Key issue on authentication of UE behind RG  | CableLabs, Rogers Communications  | 　 | available  |    |
|    | S3‑230418 | Solution for authentication of UE behind RG using NSWO  | CableLabs, Rogers Communications  | 　 | available  |    |
|    | S3‑230419 | Key issue on authentication of AUN3 device without 5G credentials  | CableLabs  | 　 | available  |    |
|    | S3‑230424 | Solution for authentication of AUN3 device without 5G Creden  | CableLabs  | 　 | available  |    |
|    | S3‑230052 | new solution for AUN3 device supporting 5G Key hierarchy (i.e. N5CW)  | Nokia, Nokia Shanghai Bell, CableLabs  | 　 | available  |    |
|    | S3‑230194 | Proposed new threat and requirement to KI#3  | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230195 | New solution to KI#3  | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230196 | conclusion to KI#3  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230048 | Draft New WID on Security aspect of 5WWC  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230049 | Scope section alignment  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230050 | updating the existing solution mapping  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230053 | update conclusion for KI1  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
| 5.14 | S3‑230409 | New Key issue on the security of the information transfer of the RAN AI/ML framework  | Ericsson  | 　 | available  |    |
|    | S3‑230410 | KI2 conclusion  | Ericsson  | 　 | available  |    |
| 5.15 | S3‑230092 | address EN for solution#2  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230093 | Adding conclusion on KI#1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230094 | Adding conclusion on KI#3  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230095 | address EN for solution#4  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230096 | Adding conclusion on KI#2  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230290 | Conclusion for key issue #1  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230412 | Resolve\_EN\_solution#5  | Ericsson  | 　 | available  |    |
|    | S3‑230413 | Resolve\_ENs\_solution#1  | Ericsson  | 　 | available  |    |
| 5.16 | S3‑230083 | Removal of EN in Solution#7  | Lenovo  | 　[Ericsson]: Needs update | available  |    |
|    | S3‑230231 | Conclusions for KI#1  | Ericsson  | 　 | available  |    |
|    | S3‑230232 | Solution to KI#1 – NSWO in SNPN with CH AUSF/UDM  | Ericsson  | 　 | available  |    |
|    | S3‑230233 | Evaluation of Solution#9 – NSWO in SNPN  | Ericsson  | 　[Nokia]: Requires clarifications before acceptable.[Nokia]: Provides r1[Ericsson]: Provides r1 | available  |    |
|    | S3‑230304 | Solution to KI#1 – NSWO in SNPN with CH AAA  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230318 | Evaluation of solution #5  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230321 | Proposal for a conclusion on KI#1  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230323 | Discussion paper concerning conclusion of KI#1  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230382 | TR 33.858 Evaluation for Sol #1  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230383 | TR 33.858 Evaluation for Sol #2  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230384 | TR 33.858 Evaluation for Sol #4  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230073 | Solution to Key Issue #2  | Lenovo  | 　[Ericsson]: requires updates | available  |    |
|    | S3‑230122 | Add a new solution to KI#2  | ZTE Corporation  | 　 | available  |    |
|    | S3‑230190 | Add Usecases to Solution 10  | Intel  | 　[Ericsson]: requires updates | available  |    |
|    | S3‑230205 | Conclusion for KI#2  | Intel  | 　[Ericsson]: proposes to merge in S3-230247 | available  |    |
|    | S3‑230245 | Update of Solution #11: Resolving Editor's Note on scenarios in SA2  | Ericsson  | 　 | available  |    |
|    | S3‑230246 | Update of Solution #11: Resolving Editor's Note in the evaluation  | Ericsson  | 　 | available  |    |
|    | S3‑230247 | Conclusion for KI#2 "Authentication for UE access to hosting network"  | Ericsson  | 　 | available  |    |
|    | S3‑230319 | Evaluation of solution #12  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230320 | Evaluation of solution #13  | Nokia, Nokia Shanghai Bell  | 　[Ericsson]: requires updates[Nokia]: Provides answers | available  |    |
|    | S3‑230322 | Proposal for a conclusion on KI#2  | Nokia, Nokia Shanghai Bell  | 　[Ericsson]: proposes to merge in S3-230247 | available  |    |
|    | S3‑230324 | Discussion paper concerning conclusion of KI#2  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230036 | Key issue on SN Name binding for Kausf in SNPN using AAA server for primary authentication  | InterDigital Communications  | 　 | available  |    |
|    | S3‑230248 | New WID on Security aspects of enhanced support of Non-Public Networks phase 2  | Ericsson  | 　 | available  |    |
| 5.17 | S3‑230024 | Conclusion TR 33.891 KI #1  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230066 | Conclusion to KI#1 Direct C2 Security  | Lenovo  | 　 | available  |    |
|    | S3‑230181 | Add conclusion to KI#1 about Direct C2 security  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230281 | Conclusion for key issue #1  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230067 | Conclusion to KI#2 Security of DAA unicast connection  | Lenovo  | 　 | available  |    |
|    | S3‑230180 | Add conclusion to KI#2 about DAA unicast security  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230282 | Conclusion for key issue #2  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230025 | Update conclusion TR 33.891 KI #3  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230068 | Conclusion to KI#3 Direct C2 Authorization  | Lenovo  | 　 | available  |    |
|    | S3‑230283 | Additional to conclusion for key issue #3  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230026 | Update conclusion TR 33.891 KI #4.  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230027 | LS on support for Restricted ProSe Direct Discovery for UAS  | InterDigital, Europe, Ltd.  | 　 | available  |    |
|    | S3‑230284 | Conclusion for key issue #7  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230277 | Resolve EN on discovery in solution #3  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230278 | Resolve EN on pairing in solution #3  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230279 | Evaluation of solution #3  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230280 | Editorial changes to UAS TR  | Qualcomm Incorporated  | 　 | available  |    |
| 5.18 |  |    |    | 　 |    |    |
| 5.19 | S3‑230300 | Updates to the Key Issue #4  | Qualcomm Incorporated  | 　>>CC\_1<<[Xiaomi] presents current status. Two alternative ways: to extend existing key issue, or to introduce new key issue. It needs to be discussed.[QC] presents this contribution.>>CC\_1<< | available  |    |
|    | S3‑230353 | pCR to TR33.893 New key issue on groupcast and broadcast security  | CATT  | 　>>CC\_1<<(It is another way forward)[CATT] gives brief introduction, ok to merge but not ok with current proposal details from QC/300.[Huawei] is not fine with this new key issue. The solution for groupcast / broadcast should be different.[Xiaomi] gives clarification about difference between 2 contributions, prefers to introduce new key issue, and reply to Huawei’s comments.Chair asks whether it is ok to separate discussion about groupcast and broadcast.[QC] clarifies and ok to have separate key issue.[CATT] clarifies.[Nokia] supports separate key issue.Chair announces there is agreement to have separate KIs for groupcast and broadcast.>>CC\_1<< | available  |    |
|    | S3‑230301 | A new solution for groupcast protection for Ranging/SL Positioning services  | Qualcomm Incorporated  | 　>>CC\_1<<[QC] presents.[Nokia] comments for clarification, whether confidentialality is optional or not.[QC] clarifies.[Xiaomi] comments it could not solve broadcast issue.>>CC\_1<< | available  |    |
|    | S3‑230354 | pCR to TR33.893 New solution for protecting groupcast and broadcast data in coverage  | CATT  | 　>>CC\_1<<[CATT] presents.[Huawei] has several questions.[CATT] asks to have questions on email reflector. [Huawei] is ok to post questions.>>CC\_1<< | available  |    |
|    | S3‑230355 | pCR to TR33.893 New solution for protecting groupcast and broadcast data in out of coverage  | CATT  | 　>>CC\_1<<[Xiaomi] comments.[CATT] clarifies.[Huawei] comments.[Xiaomi] has further comments.[CATT] clarifies.[Oppo] comments.[CATT] clarifies.[Xiaomi] is not fine with clarification.>>CC\_1<< | available  |    |
|    | S3‑230155 | update the evaluation in solution 1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230156 | conclusion on key issue 1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230184 | New solution to select assistant ranging procedure based on privacy requirement  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230272 | Ranging - New solution KI#1, #2, #3  | Philips International B.V.  | 　 | available  |    |
|    | S3‑230273 | Ranging - Update Key Issue #1- privacy risks of exposing positioning reference signals  | Philips International B.V.  | 　[Xiaomi]: requests clarification for questions | available  |    |
|    | S3‑230358 | 33.893: Additional Evaluation for Solution #1  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230363 | 33.893: Resolve the Editor’s Note in Solution #7  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230154 | update to solution 3  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230259 | New solution with authorization tokens exchanged after PC5 security establishment  | Ericsson  | 　 | available  |    |
|    | S3‑230260 | Update of evaluation to solution #2  | Ericsson  | 　 | available  |    |
|    | S3‑230261 | Update of evaluation to solution #3  | Ericsson  | 　 | available  |    |
|    | S3‑230359 | 33.893: Update to Solution #2  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230360 | 33.893: Resolve the Editor’s Note in Solution #4  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230361 | 33.893: Evaluation for Solution #4  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230364 | 33.893: New Solution on Token-based Authorization of the Role of the UE during Discovery  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230365 | 33.893: New Solution on Role Verification during Discovery based on Discovery Keys  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230366 | 33.893: New Solution on Authorization of SL Positioning Client UE for Obtaining Ranging Result  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230404 | Remove the Editor's Note of solution #3 in TR 33.893  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230405 | Remove the Editor's Note of solution #5 in TR 33.893  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230182 | New solution of security for the Ranging SL positioning device discovery  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230403 | New solution on Ranging/SL Positioning discovery and link establishment procedure for V2X capable UEs  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230183 | New solution for protecting direct communnication  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230236 | Update to solution#6 in TR 33.893 - add authorization check step  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230238 | Update to solution#6 in TR 33.893 - SLPK ID usage  | China Telecom Corporation Ltd.  | 　 | available  |    |
|    | S3‑230362 | 33.893: Evaluation for Solution #6  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230038 | New Key issue for Monitoring and detecting attacks on ranging devices and services  | Nokia, Nokia Shanghai Bell  | 　>>CC\_1<<[Nokia] presents.[Xiaomi] comments.[Nokia] clarifies.[Huawei] comments.[Nokia] clarifies.>>CC\_1<< | available  |    |
|    | S3‑230125 | New KI on security of ranging usiong assistance UE  | OPPO  | 　>>CC\_1<<[Oppo] presents.[Xiaomi] comments.[IDCC] comments, it may need to wait SA2’s progress.[QC] comments, is not clear about the proposal.>>CC\_1<< | available  |    |
| 5.2 | S3‑230124 | LS on clarification on user consent for AIML  | OPPO  | 　 | available  |    |
|    | S3‑230034 | New key issue on Federated Learning AIML model privacy protection  | InterDigital Communications  | 　 | available  |    |
|    | S3‑230035 | New key issue on Federated Learning AIML model protection  | InterDigital Communications  | 　 | available  |    |
|    | S3‑230372 | KI #1, New Sol on OAuth 2.0 based 5GC assistance information exposure authorization  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230217 | New solution on reusing existing authorization mechanism for 5G assistance information exposure to AF  | OPPO  | 　 | available  |    |
|    | S3‑230218 | New solution on authorization for 5GC assistance information exposure to external AF  | OPPO  | 　 | available  |    |
|    | S3‑230220 | New solution on authorization for 5GC assistance information exposure to internal AF  | OPPO  | 　 | available  |    |
|    | S3‑230223 | New solution on privacy protection for 5GC assistance information exposure to AF  | OPPO  | 　 | available  |    |
|    | S3‑230373 | TR 33.898 Resolve EN for sol #2  | Xiaomi communications  | 　 | available  |    |
|    | S3‑230222 | New solution on authorization for 5GC assistance information exposure to internal AF  | OPPO  | 　 | withdrawn  |    |
| 5.21 |  |    |    | 　 |    |    |
| 5.22 | S3‑230039 | New key issue on enhancement of user consent for using MDT for NG-RAN AI/ML  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230084 | 33.896: Updates to Key Issue on User Consent for NTN  | Google Inc.  | 　 | available  |    |
|    | S3‑230165 | Key Issue Update on User Consent for NTN  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230166 | Implict User Consent for NTN feature usage  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230167 | Conclusion for key issue #2  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230168 | User consent for roaming scenarios where the data source is in vPLMN  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230169 | User consent for roaming scenarios where the data source is in hPLMN  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230170 | Conclusion for key issue #1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230171 | Conclusion for key issue #4  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230370 | 33.896: Evaluation for Solution #1  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230371 | 33.896: Evaluation for Solution #2  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230406 | Remove the Editor's Note and evaluate the solution #3 in TR 33.896  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230407 | Remove the Editor's Note and evaluate the solution #4 in TR 33.896  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230408 | Conclusion on Key Issue #1 in TR 33.896  | Beijing Xiaomi Mobile Software  | 　 | available  |    |
|    | S3‑230414 | KI and Solution on user consent in roaming  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230415 | Sol update central authorization for user consent handling  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
| 5.23 | S3‑230041 | TMGI protection during group Paging  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230149 | A new solution to address the privacy issue with TMGI  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230150 | conclusion on key issue 2  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230151 | Addressing the editor's note in solution 3  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230152 | Discussion paper on way forward of key issue#1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230153 | conclusion on key issue 1  | Huawei, HiSilicon  | 　 | available  |    |
|    | S3‑230302 | A new solution for mitigating privacy attacks exploiting group paging with TMGI  | Qualcomm Incorporated  | 　 | available  |    |
|    | S3‑230335 | Updates to solution#1 in TR 33.883  | Samsung  | 　 | available  |    |
|    | S3‑230336 | [MBS] Conclusion for Key Issue#1  | Samsung  | 　 | available  |    |
| 5.24 | S3‑230143 | Study on 5G roaming topics  | Nokia, Nokia Shanghai Bell  | 　[Nokia] : asks for endorsing this DP to have a working base for Athens meeting.The paper suggests to take N32 security / roaming topic out of the eSBA study and continue working on those aspect as N32 related R19 study.This allows to close the R18 eSBA study. SID template proposal is in S3-230144.[Deutsche Telekom] : Supports the proposed way forward.[Ericsson] : Comment. By not concluding KI-10 and KI-12 in current study, and continuing with it in a new study, will it not further delay the standardisation of the these specific two key issues while proposed broader N32 security related study continues for release 19,[Nokia] : provides comments. | available  |    |
|    | S3‑230144 | SID on 5G roaming issues  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230137 | KI10 analysis and conclusion on RHUB  | Nokia, Nokia Shanghai Bell, BSI  | 　 | available  |    |
|    | S3‑230138 | KI10 sol20 EN resolution – reference to new study  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230142 | KI12 analysis and conclusion on hosted SEPP  | Nokia, Nokia Shanghai Bell, BSI  | 　 | available  |    |
|    | S3‑230140 | KI12 sol19 EN resolution – reference to new study  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230127 | KI1 corrections  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230128 | KI1 sol13 EN resolution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230129 | KI1 analysis update  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230130 | KI3 sol12 EN resolution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230131 | KI4 analysis and conclusion update  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230132 | KI3 sol15 EN resolution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230133 | KI5 sol16 EN resolution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230134 | KI6 conclusion update  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230135 | KI7 Sol17 EN resolution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230136 | KI8 conclusion update  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230139 | KI11 resolution of ENs in sol21 and sol22 by adding the related solution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230314 | New Solution to KI #11 based on O&M Provisioning NRF with NFc profile  | Ericsson LM  | 　 | available  |    |
|    | S3‑230313 | New Solution to KI #11 based on Nnrf\_AccesToken Service  | Ericsson LM  | 　[Nokia] : clarification and update required | available  |    |
|    | S3‑230022 | KI10 update on RHUB  | BSI (DE), Nokia, Nokia Shanghai Bell  | 　[Deutsche Telekom] : Supports the proposed changes. | available  |    |
|    | S3‑230021 | KI10 solution 25 update on security profiles  | BSI (DE), Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230023 | KI12 solution 19 update on hosted SEPP  | BSI (DE), Nokia, Nokia Shanghai Bell  | 　[Deutsche Telekom] : Supports the proposed requirements and provides additional comments.[Nokia] : provides comments. | available  |    |
|    | S3‑230141 | KI12 Hosted SEPP solution  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230315 | Discussion. Key issue #12: Security in Hosted SEPP scenarios  | Ericsson  | 　[Nokia] : DP can be noted. A text copy of the DP is provided in separate tdocs, where revisions are needed. (KI in S3-230316 and sol. in S3-230317) | available  |    |
|    | S3‑230316 | Update of Key issue #12: Security in Hosted SEPP scenarios  | Ericsson  | 　[Nokia] : requires updates. chaining or cascading of SEPPs is an excluded scenario, but could be understood by the current proposal made (mixing local SEPP and hosted SEPP). See LS S3-221737 from GSMA. | available  |    |
|    | S3‑230317 | Solution for KI#12: Security in Hosted SEPP scenarios  | Ericsson  | 　[Nokia] : requires updates. chaining or cascading of SEPPs is an excluded scenario, but could be understood by the current proposal made (mixing local SEPP and hosted SEPP). See LS S3-221737 from GSMA. | available  |    |
| 5.25 | S3‑230367 | 33.700-28: Add Potential Requirements for Key Issue #1  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230369 | 33.700-28: New Solution to KI#1 for AF Authorization on per UE Level  | Xiaomi Technology  | 　 | available  |    |
|    | S3‑230019 | Key Issue for NAS UE Registration Procedure  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230020 | New Key Issue on Protection of 5GS SIB19  | Nokia, Nokia Shanghai Bell  | 　 | available  |    |
|    | S3‑230368 | 33.700-28: New Key Issue on Protection of UE Unreachability Period retrieved by the UE  | Xiaomi Technology  | 　 | available  |    |
| 6 |  |    |    | 　 |    |    |
| 7 |  |    |    | 　 |    |    |
| 8 | S3‑230004 | Report from SA#98 on SA3 topics  | WG Chair  | 　>>CC\_1<<Chair presents.R-18 stage 2 is extended to June 2023. Chair comments that June is also SA3 deadline. As there is no new content from SA2, so deadline will not extend automatically.[Ericsson] comments there will be key issues and solutions depends on details from SA2 that will impact SA3 work. How to manage this?Chair replies it is a possibility that additional issues may be referred to SA3 from SA2 normative work, but whether to extend our date beyond Jun 2023, we cannot say right now. We can discuss this again on Fri in this meeting and also in the Feb meeting and deceide.[Ericsson] comments about work planning guidance from SA..Chair replies that SA wants each WG to have a clear plan for work planning management during Rel-19. How each WG manages this is left to the individual WG. We will discuss how SA3 work can do this. Whether based on TU, how define the TU etc need to be discussed. We should do this probably on Fri in this meeting or may be in Feb meeting. .>>CC\_1<< | available  |    |