**3GPP TSG-SA WG1 Meeting #103**

**Gothenburg, Sweden, 21 - 25 August 2023**

# tdoc list SA1#103 version END OF MEETING

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| Order | Ag.Item | Tdoc# | Source | Title | Type | Spec | CR# | r | cat | Versionin | Rel | WI | Summary | Discussion | Conclusion |
| 01 | 1.1 | [**S1-232000**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232000.zip) | SA1 Chair | 1st Draft Agenda | agenda |  |  |  |  |  |  |  |  |  | Revised to S1-232001 |
| 02 | 1.1 | S1-232001 | SA1 Chair | 2nd Draft agenda | agenda |  |  |  |  |  |  |  |  | Revision of S1-232000. | Revised to S1-232002 |
| 03 | 1.1 | S1-232002 | SA1 Chair | Agenda with tdoc allocation | agenda |  |  |  |  |  |  |  |  | Revision of S1-232000. Revision of S1-232001. | Agreed |
| 02 | 1.3 | [**S1-232004**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232004.zip) | ETSI MCC | Draft minutes of previous SA1 meeting | report |  |  |  |  |  |  |  |  |  | Revised to S1-232005 |
| 03 | 1.3 | S1-232005 | ETSI MCC | Minutes of previous SA1 meeting | report |  |  |  |  |  |  |  |  | Revision of S1-232004. | Agreed |
| 01 | 2 | [**S1-232006**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232006.zip) | SA1 Vice Chair | SA1-related topics at last SA plenary | report |  |  |  |  |  |  |  |  | No comment | Noted |
| 02 | 2 | [**S1-232003**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232003.zip) | ETSI | Extract of the 3GPP Work Plan | Work Plan |  |  |  |  |  |  |  |  | Not opened | Noted |
| 03 | 2 | [**S1-232007**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232007.zip) | ETSI MCC | MCC info on CR Rules | other |  |  |  |  |  |  |  |  | Not opened | Noted |
| 04 | 2 | [**S1-232008**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232008.zip) | ETSI MCC | MCC info on WID names | other |  |  |  |  |  |  |  |  | Not opened | Noted |
| 05 | 2 | [**S1-232009**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232009.zip) | SA1 Chair | Process for SA1 Rel-20 content definition | other |  |  |  |  |  |  |  | SA1 leadership aims at the same capacity as Rel-19:  corresponding to ≈ 12 SIDs if same size as the Rel-19 SIDs.  SA1 time is to be divided in two equal parts: Part 1 for studies with normative work aiming for Rel-20  Part 2 for studies with normative work aiming for beyond Rel-20 | LG, Vivo: for the February meeting, do we have to tell which part is the SID for? And how the meeting time will be allocated to each part.  Chair: the timeline division is to be refined later. Part 1 is for material targeting for normative in Rel-20. Part 2 is the rest.  Qualcomm: overall support. Maybe Part 1 can be extended to June.  Generally, most companies (LG, Qualcomm, Ericsson, Huawei, Samsung, Vivo, Novamint, DoCoMo, etc.) expressed their support to divide the work in two parts.  Sony, DT: clarify the slide with regard to the blue line. This might be extended by one quarter.  Huawei: the Part 1 can be extended by one quarter later. The Part 2 can e shifted by half-a-year later.  KDDI think that there might not be enough time between the SID approval and the Release completion.  Ericsson also support, and pointed out that the next generation work can be covered by one big SID.  Samsung pointed out that the longer time is allocated to define the content, the less time there will be to complete the work.  Atle: part 1 can be stretched by another quarter.  ZTE: Part 2 can be shifted one or two quarters later.  Telefonica: the blue line should be deleted. And the Rel-19 timeline can be deleted "because it might change".  Chair: I have to work on some basis, and these bases are the already agreed timelines.  Novamint: how about the SID with shared impact, on both Rel-20 and after?  Chair: up to the contributors to clarify.  DoCoMo: maybe Part 2 could be more time than 50%, but this can be discussed later.  Nokia: why to have this debate here and now? Because we might change generation and SA1 has to be prepared for it. But another approach is not to have these two parts at this time: SA1 would just be collecting SIDs and only later, if needed, then it can be split. The concern is not to have enough time for "future generation" discussions.  Oppo: the blue arrow is applicable only to Part 1.  Vodafone: why to rush? The timeline can be shifted by at least one quarter. Part 2 might also be shifted even more, so that there is no overlap between Part 1 and Part 2.  KPN: the current proposal in 2009 is already a kind of compromise. It should not be deleted.  AT&T: why do we need to have long-term discussion? where are we going?  China Mobile: what if a study cannot make it to Rel-20?  MCC: it is simply shifted to the next Release, this is a 3GPP principle.  Summary of the discussions by the Chair: overall support (all companies but Nokia) for dividing in two parts.  Part 2 (or even both) could be shifted to later.  The blue line showing assumptions on 80% and 100% might be deleted. | Revised to S1-232550 |
| 06 | 2 | S1-232550 | SA1 Chair | Process for SA1 Rel-20 content definition |  |  |  |  |  |  |  |  | Revision of S1-232009. | Nokia still has concern about starting Part 2 so late.  KPN proposed to copy the process used in Rel-14 for 5G.  Nokia: box "part 2" should start already in SA1#104 and not SA1#105, as to give more time for "next gen" discussions. The end date is not proposed to be modified. I.e. SID for next gen can be allowed at SA1#104. The example of Energy Efficiency is taken: how can it be clear from the beginning if it is 5GA or 6G?  Apple: support to have 6G discussions possible from earlier that SA1#105.  Samsung: this is about what SA1#104 will be able to treat: "6G" or not? Compromise: the grey box "part 2" is extended to SA1#104 while the internal boxes are kept. This is meant to mean that discussion papers are possible at SA1#104.  Interdigital: support.  Huawei: this is a "proposal for a process" and not a "process".  Ericsson: our vision is to have one single umbrella SID for next generation, as was done for 5G, so the box "part 2" might be a bit misleading.  KPN: agree with Ericsson  Vodafone: it would not be wise to start next gen too early, when Rel-19 is not even known  Siemens: it is premature to say whether there will be one SID or not  Chair: making a planning for the content definition is a process that was established for the previous Releases and has been working well.  Qualcomm: agree with Vodafone  SA Chair: 2 things are tackled here: SA1 Work Plan (this is SA1) and Release timeline - this is to be decided at SA level. The title of the last slide has to be changed to "Rel.20 SA1 Work Planning"  Huawei: the box for "part 2" is already starting too early as it is shown (SA1#105). It should be shifted to later by at least 6 months.  Samsung: release duration: this is the same pattern as from Rel-16 onwards. Also, SA1 scheduling is entirely up to SA1 chair to decide. If in scope, SA1 delegates can discuss any topic.  ATT: consensus req is needed to have, we support to have a process clearly defined  Ericsson: we support current version of the slide, as in 2550. Having a slight shift between what is foreseen to be in 5GA and what can end up in future generation is good to have.  KDDI: Rel-20 would be a longer release or not? this has to be clarified, potentially off-line  DoCoMo: support 2550 as such  Huawei: starting to approve "next gen" SIDs in SA1#108 is more in sync with what was done for 5G.  Nokia: 5G was started too late in SA1, this is not a good example.  Apple: SMARTER was started in Nov 2014, approved in Mar 2015, so quite early in 5G process  SA chair: Rel-20 is special since "6G is coming". SA1 Work Planning is SA1 scope. Rel-20 timeline is TSG scope. "content definition" to be changed to "SA1 Work Planning".  SA1 chair: agree with SA chair. As for the boxes, some delegations want them earlier, some other want them later, so maybe the current version is a compromise. To be confirmed with off-line discussions | Revised to S1-232653 |
| 06r | 2 | S1-232653 | SA1 Chair | Process for SA1 Rel-20 content definition |  |  |  |  |  |  |  |  | Replaces S1-232550  The timeline for box 2 is not changed, as a compromise between the companies that wanted it earlier and the ones that wanted it later. | Further edited while presenting.  ZTE: add that, for Part 2, "this is not a consensus within SA1"  Huawei: either we remove the box for Part 2 or we don't send it to SA plenary  Show of hands:  Supporting this proposal: 24 companies  against: 9 companies  Against Part 1: nobody  So "no consensus" is to be added for Part 2.  SA1 chair conclusion: SID proposals for Rel-20 for 5GA are welcomed from November.  Timeline for Part 2 will be continued to be discussed later on.  SA1 chair will discuss with SA chair what to present to next SA, if anything. | Revised to S1-232663 |
| 06rr | 2 | S1-232663 | SA1 Chair | Process for SA1 Rel-20 content definition |  |  |  |  |  |  |  |  | Replaces S1-232653 |  | Agreed. |
| 02 | 3 | [**S1-232017**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232017.zip) | C1-232971 | LS on access to stand-alone non-public network services via PLMN and vice versa | LS in |  |  |  |  |  |  |  | TO:  Further clarifications are asked on a Rel-16 SA1 requirement in TS 22.261 about “non-public networks” . | Two proposed answers, in S1-232066 and in S1-232186. | Replied into S1-232607 |
| 03 | 3 | [**S1-232066**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232066.zip) | Deutsche Telekom AG | Reply LS on access to stand-alone non-public network services via PLMN and vice versa | LS out |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |  |  | Merge to S1-232604 |
| 04 | 3 | S1-232294 | Deutsche Telekom AG | Reply LS on access to stand-alone non-public network services via PLMN and vice versa | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-232066 | Covered by 2607 | Withdrawn |
| 05 | 3 | [**S1-232186**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232186.zip) | China Mobile | Reply LS on access to stand-alone non-public network services via PLMN and vice versa | LS out |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |  |  | Revised to S1-232604 |
| 06 | 3 | S1-232604 | China Mobile | Reply LS to CT1 (cc SA2) on access to stand-alone non-public network services via PLMN and vice versa | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-232186.  This is a merge of the proposed answers. | Revision of S1-232186. | Revised to S1-232607 |
| 07 | 3 | S1-232607 | China Mobile | Reply LS to CT1 (cc SA2) on access to stand-alone non-public network services via PLMN and vice versa | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-232604 | Revision of S1-232186. Revision of S1-232604. Remove the last 4 words. | Agreed |
| 08 | 3 | [**S1-232187**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232187.zip) | China Mobile | Discussion on LS on access to stand-alone non-public network services via PLMN and vice versa | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |  |  | Noted |
| 10 | 3 | [**S1-232020**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232020.zip) | S3-233308 | LS on Further input to address GSMA LS on requirements for intermediaries in the roaming ecosystem (S3-232344) | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 11 | 3 | [**S1-232028**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232028.zip) | SP-230763 | Reply LS on GSMA requirements regarding intermediaries in the roaming ecosystem and related LSs | LS in |  |  |  |  |  |  |  | CC:  SA has concluded that the roaming requirements in the LSs from GSMA 5GMRR need a SA1 study to describe and discuss the use cases and derive potential service requirements. SA invites interested parties to contribute their use cases and requirements in 3GPP SA1 as per normal 3GPP working procedures. This would then be followed by any architectural and protocol work as needed.  TSG SA would like to inform GSMA that earliest possibility to undertake this work would be Rel-19 (refer to 3GPP workplan in SP 230738). | See LS in 2020 and discussion in 2214. | Noted |
| 12 | 3 | S1-232271 | S3-234296 | LS on SEPP requirements, privacy and cyber security | LS in |  |  |  |  |  |  |  | SA3 asks SA1 to take above into consideration when setting up and studying new requirements for 5GS and asks for advice on the work split between SA1 and SA3. Please check if TR 33.875 key issues related to roaming can be studied from security perspective in parallel and whether SA3 can continue to evaluate potential solutions providing feedback also to 5GMRR.  SA3 asks 5GMRR to confirm the understanding of the terms "hosting" and "outsourcing" as described in TR 33.875. Also, please inform SA3 on any updates regarding security in 5G SA roaming. | Proposed answer in 2274 | Replied in 2654 |
| 13 | 3 | S1-232274 | Vodafone | LS to SA3, SA on Roaming Hub Requirements | LS out |  |  |  |  |  |  |  | Proposed answer to 2271 | 2290 is related CR | Revised to S1-232609 |
| 14 | 3 | S1-232609 | Vodafone | LS to SA3, SA on Roaming Hub Requirements | LS out |  |  |  |  |  |  |  | Replaces S1-232274  To state:  SA1 asks SA3 to continue working on evaluation of potential solution to support 5G SA roaming deployments  SA1 asks SA to consider the CRs, technically endorsed by SA1, for approval taking into consideration the ongoing dialogue with GSMA and in line with SA3 activities on this. SA1 kindly requests SA to make a decision on the target Release to accommodate these requirements | Revision of S1-232274.  5GMRR is not in copy because this is internal 3GPP process.  Nokia and Ericsson: strict FASMO rules are strict. Rel-18 is the first opened one. So it has to be done to Rel-18 first, then it has to be checked if this can be expanded to earlier Releases. This can be further discussed at SA. The LS should mention that some other companies want to have it from Rel-18 onwards, at least as a first step. A generic CR can be done to show what the change would be.  SA chair: SA has asked SA1 to take care of this problem. The LS can mention "SA1 did not reach consensus on which Rel to start with"  Vodafone, Verizon: OK as compromise.  SA1 chair: OK, one generic CR, no mention of the starting Release  SA chair: a company contribution has to be brought to SA | Revised to S1-232654 |
| 14r | 3 | S1-232654 | Vodafone | LS to SA3, SA on Roaming Hub Requirements | LS out |  |  |  |  |  |  |  | Replaces S1-232609 |  | Agreed |
| 15 | 3 | [**S1-232214**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232214.zip) | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Discussion on Roaming Services | discussion |  |  |  |  |  |  |  | There is a lack of backwards compatibility in all 5G releases to enabling current roaming entities their service offering which provides scalability, optimization, financial liability and value-added services.  A two-step solution is proposed:  Step 1: Include essential roaming services provider requirements into TS 22.261 from Rel. 16, with mirrors to subsequent releases, as the set of basic requirements to enable the support of these in the roaming ecosystem.  Step 2: Include additional roaming services provider requirements, as deemed necessary, with a miniWID in Rel. 19. | This would be a very exceptional procedure to correct from that long ago. | Noted |
| 16 | 3 | [**S1-232208**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232208.zip) | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0720 |  | F | 16.16.0 | [Rel-16](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [SMARTER\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | Moved from 6.3 WI SMARTER\_Ph2, TEI16 Rel-16 CR0720R- Cat F | Revised to S1-232290 |
| 17 | 3 | S1-232290 | Vodafone, Orange, Verizon, Telecom Italia, T-Mobile USA, Telefonica, KDDI, DISH Network, Deutsche Telekom, Futurewei, KPN | Roaming service providers enablement in 5G | CR | 22.261 | 0720 | 1 | F | 16.16.0 | Rel-16 | SMARTER\_Ph2 | Replaces S1-232208 | Moved from 6.3 WI SMARTER\_Ph2, TEI16 Rel-16 CR0720R- Cat F Revision of S1-232208.  Orange was co-signer of previous version but not this one, so name to be removed.  China Mobile ask for more time to discuss.  Nokia pointed out that this is pending of other discussions taking place in parallel in other groups.  Ericsson: from a procedure perspective, "FASMO" is to solve problems as a whole. Correcting only Stage 1 in SA1 should be limited to Rel-18 onwards at least initially.  ZTE wonder about the origin of Note 2. Vodafone clarified it came from one of the previous discussions.  Vodafone: this needs to be in place from the first deployed Release, which is Rel-16. Correcting from Rel-18 would leave a gap in what is corrected. Verizon, KPPN support.  Ericsson: the needs should be made clearer.  Nokia: is this a correction? it should rather be cat C. ZTE agree.  KPN: this | Revised to S1-232608 |
| 18 | 3 | S1-232608 | Vodafone, Orange, Verizon, Telecom Italia, T-Mobile USA, Telefonica, KDDI, DISH Network, Deutsche Telekom, Futurewei, KPN | Roaming service providers enablement in 5G | CR | 22.261 | 0720 | 2 | F | 16.16.0 | Rel-16 | SMARTER\_Ph2 | Replaces S1-232290 | Moved from 6.3 WI SMARTER\_Ph2, TEI16 Rel-16 CR0720R- Cat F Revision of S1-232208. Revision of S1-232290.  Make it Rel independent | Revised to S1-232655 |
| 18r | 3 | S1-232655 | Vodafone, Orange, Verizon, Telecom Italia, T-Mobile USA, Telefonica, KDDI, DISH Network, Deutsche Telekom, Futurewei, KPN | Roaming service providers enablement in 5G | CR | 22.261 | 0720 | 3 | F | 16.16.0 | Rel-16 | SMARTER\_Ph2 | Replaces S1-232608 |  | Endorsed |
| 19 | 3 | [**S1-232209**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232209.zip) | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0721 |  | A | 17.11.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [SMARTER\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | Moved from 6.2 WI SMARTER\_Ph2, TEI16 Rel-17 CR0721R- Cat A | Revised to S1-232291 |
| 20 | 3 | [**S1-232207**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232207.zip) | T-Mobile USA Inc. | Roaming as a Service | SID new |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Study use cases and potential requirements for roaming and interconnect using 3rd party roaming service provider services and/or outsourcing roaming operations to 3rd party service providers. | Moved from 4 | Withdrawn |
| 20 | 3 | S1-232291 | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | 22.261 | 0721 | 1 | A | 17.11.0 | Rel-17 | SMARTER\_Ph2 | Replaces S1-232209 | Moved from 6.2 WI SMARTER\_Ph2, TEI16 Rel-17 CR0721R- Cat A Revision of S1-232209. | Noted |
| 21 | 3 | [**S1-232210**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232210.zip) | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0722 |  | A | 18.10.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | Moved from 6.1 WI SMARTER\_Ph2, TEI16 Rel-18 CR0722R- Cat A | Revised to S1-232292 |
| 22 | 3 | S1-232292 | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | 22.261 | 0722 | 1 | A | 18.10.0 | Rel-18 | SMARTER\_Ph2 | Replaces S1-232210 | Moved from 6.1 WI SMARTER\_Ph2, TEI16 Rel-18 CR0722R- Cat A Revision of S1-232210 . | Noted |
| 23 | 3 | [**S1-232211**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232211.zip) | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0723 |  | A | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [SMARTER\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | Moved from 7.13 WI SMARTER\_Ph2, TEI16 Rel-18 CR0723R- Cat A | Revised to S1-232293 |
| 24 | 3 | S1-232293 | Vodafone, Verizon, Orange, Telecom Italia, T-Mobile USA | Roaming service providers enablement in 5G | CR | 22.261 | 0723 | 1 | A | 19.3.0 | Rel-19 | SMARTER\_Ph2 | Replaces S1-232211 | Moved from 7.13 WI SMARTER\_Ph2, TEI16 Rel-18 CR0723R- Cat A Revision of S1-232211. | Noted |
| 27 | 3 | [**S1-232021**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232021.zip) | S4-231082 | LS on Metaverse Standards Forum (MSF) | LS in |  |  |  |  |  |  |  | TO: |  | Noted |
| 28 | 3 | [**S1-232027**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232027.zip) | SP-230741 | LS on 3GPP related Metaverse specifications and activities | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 30 | 3 | [**S1-232024**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232024.zip) | SG11-LS74 | LS on initiation of draft new Technical Report TR-SSC ""Signalling and protocols of integrated sensing and communication in future network"" | LS in |  |  |  |  |  |  |  | TO: |  | Noted |
| 31 | 3 | [**S1-232025**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232025.zip) | SG11-LS85 | LS on initiation of the new work item Q.PDS ""Protocols for supporting data streaming service in IMT-2020 network and beyond"" | LS in |  |  |  |  |  |  |  | TO: |  | Noted |
| 32 | 3 | [**S1-232026**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232026.zip) | sp17-sg5-oLS-00068 | LS/r on consideration of a new work item ""Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective"" (reply to SG13-LS78) | LS in |  |  |  |  |  |  |  | TO: |  | Noted |
| 33 | 3 | [**S1-232023**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232023.zip) | S5-234547 | Reply LS to LS on Information and request of advice on the SG13 plan to initiate a new work item on ""Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective"" | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 34 | 3 | [**S1-232059**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232059.zip) | ITU FG-MV-LS15 | LS on Results of the second meeting of the FG-MV and approval of its first deliverable | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 35 | 3 | [**S1-232018**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232018.zip) | C1-234302 | Reply LS on issues related to SNPN selection for localized services | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 36 | 3 | [**S1-232019**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232019.zip) | S2-2307983 | LS on GSMA requirements regarding intermediaries in the roaming ecosystem and related LSs | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 37 | 3 | [**S1-232022**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232022.zip) | S4-231111 | LS on 3GPP work on Energy Efficiency | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
|  | 4 | S1-232259 | S3-233786 | LS-Reply on Introduction of the domain "ipxnetwork.org" | LS in |  |  |  |  |  |  |  |  |  |  |
| 05 | 4 | S1-232272 | OPPO | New WID on Ambient power-enabled Internet of Things | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232129 | Moved from 7.2.2 Revision of S1-232129. | Revised to S1-232373 |
| 06 | 4 | S1-232373 | OPPO | New WID on Ambient power-enabled Internet of Things |  |  |  |  |  |  |  |  |  | Moved from 7.2.2 Revision of S1-232129. Revision of S1-232272. | Revised to S1-232395 |
| 07 | 4 | S1-232395 | OPPO | New WID on Ambient power-enabled Internet of Things |  |  |  |  |  |  |  |  | Replaces S1-232373 | Conditionned to the WID to be agreed later. | Revised to S1-232652 |
| 07r | 4 | S1-232652 | OPPO | New WID on Ambient power-enabled Internet of Things |  |  |  |  |  |  |  |  | Replaces S1-232395 |  | Agreed. |
| 08 | 4 | [**S1-232238**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232238.zip) | Qualcomm | DualSteer\_new WID | WID new |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | Moved from 7.9.2 | Revised to S1-232256 |
| 09 | 4 | S1-232256 | Qualcomm | DualSteer\_new WID | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232238 | Moved from 7.9.2 Revision of S1-232238. | Revised to S1-232289 |
| 10 | 4 | S1-232289 | Qualcomm | DualSteer\_new WID | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232256 | Moved from 7.9.2 Revision of S1-232238. Revision of S1-232256. | Agreed |
| 13 | 4 | [**S1-232106**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232106.zip) | China Telecom | New WID on FMC\_issues | WID new |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | Acronym need to be check. No enough supporting companies. | Revised to S1-232281 |
| 14 | 4 | S1-232281 | China Telecom | New WID on FMC\_issues | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232106 | Acronym need to be check. No enough supporting companies. Revision of S1-232106. | Revised to S1-232610 |
| 15 | 4 | S1-232610 | China Telecom | New WID on FMC\_issues | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232281 | Acronym need to be check. No enough supporting companies. Revision of S1-232106. Revision of S1-232281.  Old template used | Revised to S1-232656 |
| 15r | 4 | S1-232656 | China Telecom | New WID on FMC\_issues | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232610 |  | Note |
| 16 | 4 | [**S1-232107**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232107.zip) | China Telecom | Discussion paper for FMC\_issues | discussion |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 17 | 4 | [**S1-232108**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232108.zip) | China Telecom | New requirements on traffic routing | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0709 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Revised to S1-232287 |
| 18 | 4 | S1-232287 | China Telecom | New requirements on traffic routing | CR | 22.261 | 0709 | 1 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232108 | Revision of S1-232108. | Revised to S1-232611 |
| 19 | 4 | S1-232611 | China Telecom | New requirements on traffic routing | CR | 22.261 | 0709 | 2 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232287 | Revision of S1-232108. Revision of S1-232287.  Wrong date | Revised to S1-232657 |
| 19r | 4 | S1-232657 | China Telecom | New requirements on traffic routing | CR | 22.261 | 0709 | 3 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232611 |  | Agreed. |
| 20 | 4 | [**S1-232109**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232109.zip) | China Telecom | New requirements on credentials | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0710 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Revised to S1-232270 |
| 21 | 4 | S1-232270 | China Telecom | 22.261v19.3.0 New requirements on credentials |  |  |  |  |  |  |  |  | It is proposed to add: "The 5G system shall be able to support the provision of non-3GPP credentials (e.g. SSID and password) to UE, so as to assist the authentication in non-3GPP systems." | Revision of S1-232109.  Several companies find the added statement confusing. | Noted |
| 23 | 4 | [**S1-232158**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232158.zip) | Intel, Cisco Systems, Novamint | New mini-WID on Scalable Interconnect of SNPN | WID new |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | new mini-WID on Scalable SNPN Interconnect with dynamic connections, based on the conclusions in TR 22.848 | No enough supporting companies. | Noted |
| 24 | 4 | [**S1-232161**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232161.zip) | Intel, Cisco Systems, Novamint | Service requirements for Scalable SNPN Interconnect with dynamic connections | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0715 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | Based on the TR 22.848 conclusions related to Scalable SNPN Interconnect with dynamic connections, this CR introduces related services requirements. |  | Not handled |
| 26 | 4 | [**S1-232162**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232162.zip) | China Telecom | New WID on Edge Computing Considering the Operational Needs of Service Hosting Environment | WID new |  |  |  |  |  |  |  |  | Add Samsung | Revised to S1-232282 |
| 27 | 4 | S1-232282 | China Telecom | New WID on Edge Computing Considering the Operational Needs of Service Hosting Environment | WID new |  |  |  |  |  |  |  | Replaces S1-232162 | Revision of S1-232162. | Agreed |
| 28 | 4 | [**S1-232164**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232164.zip) | China Telecom | Discussion on Edge Computing Considering the Operational Needs of Service Hosting Environment | discussion |  |  |  |  |  |  |  |  |  | Noted |
| 29 | 4 | [**S1-232163**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232163.zip) | China Telecom | Additional requirements for selecting and/or changing the user plane paths based on the usage information of the Service Hosting Environment | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0716 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | This CR adds requirements on selecting and/or changing the user plane paths based on the usage information of the Service Hosting Environment. |  | Revised to S1-232283 |
| 30 | 4 | S1-232283 | China Telecom | Additional requirements for selecting and/or changing the user plane paths based on the usage information of the Service Hosting Environment | CR | 22.261 | 0716 | 1 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232163 | Revision of S1-232163. | Revised to S1-232612 |
| 31 | 4 | S1-232612 | China Telecom | Additional requirements for selecting and/or changing the user plane paths based on the usage information of the Service Hosting Environment | CR | 22.261 | 0716 | 2 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232283 | Revision of S1-232163. Revision of S1-232283. Remove changes on changes. Clean up. | Agreed |
| 33 | 4 | [**S1-232189**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232189.zip) | China Mobile Com. Corporation | New WID on enhanced Customized Alerting Tones and Customized Ringing Signal | WID new |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Revised to S1-232277 |
| 34 | 4 | S1-232277 | China Mobile Com. Corporation | New WID on enhanced Customized Alerting Tones and Customized Ringing Signal | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232189 | Revision of S1-232189. | Revised to S1-232613 |
| 35 | 4 | S1-232613 | China Mobile Com. Corporation | New WID on enhanced Customized Alerting Tones and Customized Ringing Signal | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-232277 | Revision of S1-232189. Revision of S1-232277. | Noted |
| 36 | 4 | [**S1-232190**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232190.zip) | China Mobile Com. Corporation | Motivation of supporting 5G enhanced Customized Alerting Tones (CAT) and Customized Ringing Signal (CRS) | discussion |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | WID and material in 2275, 76, 77 | Noted |
| 37 | 4 | [**S1-232201**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232201.zip) | China Mobile Com. Corporation | CAT ehanced function | CR | [22.182](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=624) | 0028 |  | B | 17.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Revised to S1-232275 |
| 38 | 4 | S1-232275 | China Mobile Com. Corporation | CAT enhanced function | CR | 22.182 | 0028 | 1 | B | 17.0.0 | Rel-19 | DUMMY | Replaces S1-232201.  This CR proposes service function of CRS service can  (1) provide more simple and convenient operation method for called party to reflect preference information;  (2) lower the user entry barrier and enhance the overall user experience;  (3) help the service providers better engage users by better managing and recommending CRS content. | For Samsung, Huawei and Apple, several aspects are either out of scope and/or undefined. This would at least require a proposal for a preliminary study.  For Huawei ,there is too much application-level concept as it is.  Not enough supporting companies. | Revised to S1-232614 |
| 39 | 4 | S1-232614 | China Mobile Com. Corporation | CAT enhanced function | CR | 22.182 | 0028 | 2 | B | 17.0.0 | Rel-19 | DUMMY | Replaces S1-232275 | Revision of S1-232201. Revision of S1-232275.  Apple: still not ready to accept it at this meeting, need more time to review between now and next meeting.  Nokia: Rewording needed  Samsung, Huawei: support the idea. This is unfortunate that this cannot be agreed at this meeting. | Noted |
| 40 | 4 | [**S1-232203**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232203.zip) | China Mobile Com. Corporation | CRS enhanced function | CR | [22.183](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=625) | 0007 |  | B | 17.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Revised to S1-232276 |
| 41 | 4 | S1-232276 | China Mobile Com. Corporation | CRS enhanced function | CR | 22.183 | 0007 | 1 | B | 17.0.0 | Rel-19 | DUMMY | Replaces S1-232203 | Revision of S1-232203. | Revised to S1-232615 |
| 42 | 4 | S1-232615 | China Mobile Com. Corporation | CRS enhanced function | CR | 22.183 | 0007 | 2 | B | 17.0.0 | Rel-19 | DUMMY | Replaces S1-232276 | Revision of S1-232203. Revision of S1-232276. | Noted |
| 43 | 4 | S1-232125 | China Mobile Com. Corporation | Motivation of supporting 5G enhanced Customized Alerting Tones (CAT) and Customized Ringing Signal (CRS) | discussion |  |  |  |  |  |  |  |  |  | Withdrawn |
| 01 | 5 | [**S1-232012**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232012.zip) | Huawei | Quality improvements for TS22.011 Release 19 | CR | [22.011](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0352 |  | D | 19.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [TEI19](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=980130) |  |  | Agreed |
|  | 6.10.2 | S1-232626 | China Mobile | TBD | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0008 |  | D | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  | For future use | Withdrawn |
| 02 | 7.1.1 | [**S1-232113**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232113.zip) | vivo | Updates the definition of sensing assistance information | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0005 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232430 |
| 03 | 7.1.1 | S1-232430 | vivo | 22.837v19.0.0 Updates the definition of sensing assistance information |  |  |  |  |  |  |  |  |  | Revision of S1-232113. | Revised to S1-232438 |
| 04 | 7.1.1 | S1-232438 | vivo | 22.837v19.0.0 Updates the definition of sensing assistance information |  |  |  |  |  |  |  |  |  | Revision of S1-232113. Revision of S1-232430. Added texts are moved to definition parts. Slight change also added. | Agreed |
| 05 | 7.1.1 | [**S1-232151**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232151.zip) | Huawei | Discussion on missed detection and false alarm | discussion | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 06 | 7.1.1 | [**S1-232156**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232156.zip) | Huawei | Update of definitions | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0009 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232431 |
| 07 | 7.1.1 | S1-232431 | Huawei | 22.837v19.0.0 Update of definitions |  |  |  |  |  |  |  |  |  | Revision of S1-232156. | Agreed |
| 09 | 7.1.1 | [**S1-232246**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232246.zip) | Deutsche Telekom | Removing editor’s notes | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0014 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Agreed |
| 10 | 7.1.1 | [**S1-232093**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232093.zip) | QUALCOMM, CATT | CR on Use Case on Gesture Recognition for Application Navigation and Immersive Interaction | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0003 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232426 |
| 11 | 7.1.1 | S1-232426 | Qualcomm, CATT | 22.837v19.0.0 CR on Use Case on Gesture Recognition for Application Navigation and Immersive Interaction |  |  |  |  |  |  |  |  |  | Revision of S1-232093. | Revised to S1-232432 |
| 12 | 7.1.1 | S1-232432 | Qualcomm, CATT | 22.837v19.0.0 CR on Use Case on Gesture Recognition for Application Navigation and Immersive Interaction |  |  |  |  |  |  |  |  |  | Revision of S1-232093. Revision of S1-232426. | Revised to S1-232439 |
| 13 | 7.1.1 | S1-232439 | Qualcomm, CATT | 22.837v19.0.0 CR on Use Case on Gesture Recognition for Application Navigation and Immersive Interaction |  |  |  |  |  |  |  |  |  | Revision of S1-232093. Revision of S1-232426. Revision of S1-232432. | Revised to S1-232616 |
| 14 | 7.1.1 | S1-232616 | Qualcomm, CATT | 22.837v19.0.0 CR on Use Case on Gesture Recognition for Application Navigation and Immersive Interaction |  |  |  |  |  |  |  |  | Replaces S1-232439 | Revision of S1-232093. Revision of S1-232426. Revision of S1-232432. Revision of S1-232439. Rev 4 in cover page and no track changes in cover page. | Agreed |
| 16 | 7.1.1 | S1-232126 | IPLOOK | Use Case on Stop Sensing in Privacy Area | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0006 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | This paper proposes an addition of a new use case for FS\_Sensing |  | Withdrawn |
| 18 | 7.1.1 | [**S1-232245**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232245.zip) | Deutsche Telekom, ZTE | Discussion on consolidated requirements of FS\_Sensing | discussion |  |  |  |  |  |  |  |  |  | Revised to S1-232433 |
| 19 | 7.1.1 | S1-232433 | Deutsche Telekom, ZTE | Discussion on consolidated requirements of FS\_Sensing |  |  |  |  |  |  |  |  |  | Revision of S1-232245. | Noted |
| 20 | 7.1.1 | [**S1-232219**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232219.zip) | Ericsson Inc. | discussion on System vs Network Control | discussion | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Discussion paper for system vs Network control |  | Noted |
| 21 | 7.1.1 | [**S1-232067**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232067.zip) | Deutsche Telekom, Huawei | Modification of the consolidated functional requirements section | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0002 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232285 |
| 22 | 7.1.1 | S1-232285 | Deutsche Telekom, Huawei | Modification of the consolidated functional requirements section | CR | 22.837 | 0002 | 1 | F | 19.0.0 | Rel-19 | FS\_Sensing | Replaces S1-232067 | Revision of S1-232067. | Revised to S1-232434 |
| 23 | 7.1.1 | S1-232434 | Deutsche Telekom, Huawei | 22.837v19.0.0 Modification of the consolidated functional requirements section |  |  |  |  |  |  |  |  |  | Revision of S1-232067. Revision of S1-232285. | Revised to S1-232436 |
| 24 | 7.1.1 | S1-232436 | Deutsche Telekom, Huawei | 22.837v19.0.0 Modification of the consolidated functional requirements section |  |  |  |  |  |  |  |  |  | Revision of S1-232067. Revision of S1-232285. Revision of S1-232434. NOTE is added, regulation is added. | Revised to S1-232631 |
| 25 | 7.1.1 | S1-232631 | Deutsche Telekom, Huawei | 22.837v19.0.0 Modification of the consolidated functional requirements section |  |  |  |  |  |  |  |  | Replaces S1-232436 | add Futurewei as co-signer | Revised to S1-232641 |
| 26 | 7.1.1 | S1-232641 | Deutsche Telekom, Huawei | 22.837v19.0.0 Modification of the consolidated functional requirements section |  |  |  |  |  |  |  |  | Replaces S1-232631 | Revision of S1-232067. Revision of S1-232285. Revision of S1-232434. NOTE is added, regulation is added. Revision of S1-232436. Revision of S1-232631. Adding supporting company. | Agreed |
| 27 | 7.1.1 | S1-232469 | Magenta | Adding CPRs in the consolidated functional requirements section | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0016 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232618 |
| 28 | 7.1.1 | S1-232618 | Magenta | Adding CPRs in the consolidated functional requirements section | CR | 22.837 | 0016 | 1 | F | 19.0.0 | Rel-19 | FS\_Sensing | Replaces S1-232469 | Revision of S1-232469. | Agreed |
| 29 | 7.1.1 | [**S1-232217**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232217.zip) | Xiaomi Communications | Modification of the Security Consolidated Requirements | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0011 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Noted |
| 30 | 7.1.1 | [**S1-232094**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232094.zip) | QUALCOMM, HUAWEI, VIVO | CR on proposed CPR for UE processing | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0004 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Merge to S1-232434 |
| 31 | 7.1.1 | [**S1-232131**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232131.zip) | ZTE | Revise the CPR of non-3GPP sensing data collection | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0008 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Merge to S1-232285 |
| 32 | 7.1.1 | [**S1-232179**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232179.zip) | Huawei | Consolidated functional requirements on network exposure | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0010 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Merge to S1-232434 |
| 33 | 7.1.1 | [**S1-232220**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232220.zip) | vivo | Updates on consolidated functional requirements on configuration and authorization | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0012 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Merge to S1-232434 |
| 34 | 7.1.1 | [**S1-232130**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232130.zip) | ZTE | Update sensing consolidated KPI table | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0007 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Merge to S1-232435 |
| 35 | 7.1.1 | [**S1-232221**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232221.zip) | vivo | Updates on consolidated KPI table | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0013 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232435 |
| 36 | 7.1.1 | S1-232435 | vivo | 22.837v19.0.0 Updates on consolidated KPI table |  |  |  |  |  |  |  |  |  | Revision of S1-232221. | Revised to S1-232606 |
| 37 | 7.1.1 | S1-232606 | vivo | 22.837v19.0.0 Updates on consolidated KPI table |  |  |  |  |  |  |  |  |  | Revision of S1-232221. Revision of S1-232435.  Wrong date, add co-source | Revised to S1-232621 |
| 38 | 7.1.1 | S1-232621 | vivo | 22.837v19.0.0 Updates on consolidated KPI table |  |  |  |  |  |  |  |  | Replaces S1-232606 | Revision of S1-232221. Revision of S1-232435. Revision of S1-232606. Update the date and add supporting company. | Agreed |
| 39 | 7.1.1 | [**S1-232250**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232250.zip) | Deutsche Telekom AG | Conclusion and recommendations section | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0015 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Merge to S1-232269 |
| 40 | 7.1.1 | [**S1-232056**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232056.zip) | Xiaomi | Adding new contents for clause 8 Conclusions and recommendations | CR | [22.837](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) | 0001 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) |  |  | Revised to S1-232269 |
| 41 | 7.1.1 | S1-232269 | Xiaomi | 22.837v19.0.0 Adding new contents for clause 8 Conclusions and recommendations |  |  |  |  |  |  |  |  |  | Revision of S1-232056. | Revised to S1-232437 |
| 42 | 7.1.1 | S1-232437 | Xiaomi | 22.837v19.0.0 Adding new contents for clause 8 Conclusions and recommendations |  |  |  |  |  |  |  |  |  | Revision of S1-232056. Revision of S1-232269. Clause 7 contains consolidated potential requirements and KPIs for 5G wireless sensing service. It is recommended that these be considered for normative phase. | Agreed |
| 03 | 7.1.2 | [**S1-232247**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232247.zip) | Deutsche Telekom, Nokia | Pseudo-CR on Scope section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.1 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) | This pCR updates the scope of TS 22.137 | Moved from 7.1.1 | Revised to S1-232441 |
| 04 | 7.1.2 | S1-232441 | Deutsche Telekom, Nokia | Pseudo-CR on Scope section |  |  |  |  |  |  |  |  |  | Moved from 7.1.1 Revision of S1-232247. | Agreed |
| 05 | 7.1.2 | [**S1-232052**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232052.zip) | Xiaomi | Pseudo-CR on References section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Noted |
| 06 | 7.1.2 | [**S1-232243**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232243.zip) | Deutsche Telekom, Nokia | Pseudo-CR on Terms section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.1 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232443 |
| 07 | 7.1.2 | S1-232443 | Deutsche Telekom, Nokia | Pseudo-CR on Terms section |  |  |  |  |  |  |  |  |  | Revision of S1-232243. | Agreed |
| 09 | 7.1.2 | [**S1-232240**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232240.zip) | Deutsche Telekom, Nokia | Pseudo-CR on Overview – 4.1 General section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.1 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  | Was agreed | Revised to S1-232470 |
| 10 | 7.1.2 | S1-232470 | Deutsche Telekom, Nokia | Pseudo-CR on Overview – 4.1 General section | pCR | 22.137 |  |  |  | 0.0.1 | Rel-19 | Sensing | Replaces S1-232240 | Revision of S1-232240. | Agreed |
| 11 | 7.1.2 | [**S1-232216**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232216.zip) | Ericsson Inc. | sensing operation in overview chapter | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) | contribution to the overview chapter |  | Revised to S1-232280 |
| 12 | 7.1.2 | S1-232280 | Ericsson Inc. | sensing operation in overview chapter | pCR | 22.137 |  |  |  | 0.0.0 | Rel-19 | Sensing | Replaces S1-232216 | Revision of S1-232216. | Revised to S1-232442 |
| 13 | 7.1.2 | S1-232442 | Ericsson | sensing operation in overview chapter |  |  |  |  |  |  |  |  |  | Revision of S1-232216. Revision of S1-232280. | Revised to S1-232640 |
| 14 | 7.1.2 | S1-232640 | Ericsson | sensing operation in overview chapter |  |  |  |  |  |  |  |  | Replaces S1-232442 | Revision of S1-232216. Revision of S1-232280. Revision of S1-232442. | Revised to S1-232646 |
| 14r | 7.1.2 | S1-232646 | Ericsson | sensing operation in overview chapter |  |  |  |  |  |  |  |  | Replaces S1-232640 | Several formatting problems and wording issues to be solved. | Revised to S1-232659 |
| 14rr | 7.1.2 | S1-232659 | Ericsson | sensing operation in overview chapter |  |  |  |  |  |  |  |  | Replaces S1-232646 |  | Agreed. |
| 15 | 7.1.2 | [**S1-232053**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232053.zip) | Xiaomi | Pseudo-CR on Overview – 4.2 Sensing operation section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  | Merged with 2216 in 2280 | Merge to S1-232280 |
| 16 | 7.1.2 | [**S1-232054**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232054.zip) | Xiaomi | Pseudo-CR on Overview – 4.3 Key parameters section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232425 |
| 17 | 7.1.2 | S1-232425 | Xiaomi | Pseudo-CR on Overview 4.3 Key parameters section |  |  |  |  |  |  |  |  |  | Revision of S1-232054. Keep this document open. Qualcomm requests time to review. | Noted |
| 18 | 7.1.2 | [**S1-232111**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232111.zip) | vivo | TS22.137 Overview section key attributes during sensing operation descriptions | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Merge to S1-232425 |
| 20 | 7.1.2 | [**S1-232134**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232134.zip) | ZTE, Deutsche Telekom, Apple, China Telecom,Nokia | Sensing TS 5.1 Description | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) | This document introduces description context for section 5.1 of TS 22.137 |  | Revised to S1-232427 |
| 21 | 7.1.2 | S1-232427 | ZTE, Deutsche Telekom, Apple, China Telecom, Nokia | Sensing TS 5.1 Description |  |  |  |  |  |  |  |  |  | Revision of S1-232134. | Revised to S1-232444 |
| 22 | 7.1.2 | S1-232444 | ZTE, Deutsche Telekom, Apple, China Telecom, Nokia | Sensing TS 5.1 Description |  |  |  |  |  |  |  |  |  | Revision of S1-232134. Revision of S1-232427. | Agreed |
| 23 | 7.1.2 | [**S1-232055**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232055.zip) | Xiaomi | Pseudo-CR on 5.2 Requirements – 5.2.1 General subsection | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232446 |
| 24 | 7.1.2 | S1-232446 | Xiaomi | Pseudo-CR on 5.2 Requirements 5.2.1 General subsection |  |  |  |  |  |  |  |  |  | Revision of S1-232055.  Apple: note to be added to explain 5.2.1.  More editing needed. Wrong formatting. | Revised to S1-232471 |
| 25 | 7.1.2 | S1-232471 | Xiaomi | Pseudo-CR on 5.2 Requirements 5.2.1 General subsection |  |  |  |  |  |  |  |  | Replaces S1-232446 | Revision of S1-232055. Revision of S1-232446. The 5G system shall be able to provide sensing service to detect, identify and/or track one or more objects (e.g., UAVs, birds) and the environment around the object(s). Editor s note: Identify is FFS. And in not 2 we use singular. | Agreed |
| 26 | 7.1.2 | [**S1-232084**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232084.zip) | China Mobile Com. Corporation | pCR on 5G Wireless sensing configuration and authorization requirements | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 1.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) | pCR on 5G Wireless sensing configuration and authorization requirements |  | Merge to S1-232268 |
| 27 | 7.1.2 | [**S1-232112**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232112.zip) | vivo, Huawei | TS22.137 Configuration and Authorization section | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232268 |
| 28 | 7.1.2 | S1-232268 | vivo, Huawei | TS22.137 Configuration and Authorization section |  |  |  |  |  |  |  |  |  | Revision of S1-232112. | Revised to S1-232440 |
| 29 | 7.1.2 | S1-232440 | vivo, Huawei | TS22.137 Configuration and Authorization section |  |  |  |  |  |  |  |  |  | Revision of S1-232112. Revision of S1-232268. | Revised to S1-232472 |
| 30 | 7.1.2 | S1-232472 | vivo, Huawei | TS22.137 Configuration and Authorization section |  |  |  |  |  |  |  |  | Replaces S1-232440 | Revision of S1-232112. Revision of S1-232268. Revision of S1-232440. Track changes only for the new text which is not in the skeleton. | Agreed |
| 31 | 7.1.2 | [**S1-232114**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232114.zip) | China Mobile Com. Corporation | pCR on 5G Wireless sensing security requirement | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) | This document introduces descriptions and requirements of security in section 5.4 |  | Merge to S1-232429 |
| 32 | 7.1.2 | [**S1-232115**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/s1-232115.zip) | China Mobile Com. Corporation | pCR on 5G Wireless sensing charging requirement | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) | This document introduces descriptions and requirements of charging in section 5.5 |  | Merge to S1-232428 |
| 33 | 7.1.2 | [**S1-232165**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232165.zip) | China Telecom | Pseudo-CR on adding charging requirement for sensing service | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232428 |
| 34 | 7.1.2 | S1-232428 | China Telecom | Pseudo-CR on adding charging requirement for sensing service |  |  |  |  |  |  |  |  |  | Revision of S1-232165. | Agreed |
| 35 | 7.1.2 | [**S1-232137**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232137.zip) | ZTE,Deutsche Telekom | 5.2 5G Wireless sensing service Requirements - General | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232445 |
| 36 | 7.1.2 | S1-232445 | ZTE, Deutsche Telekom | 5.2 5G Wireless sensing service Requirements - General |  |  |  |  |  |  |  |  |  | Revision of S1-232137. | Agreed |
| 37 | 7.1.2 | [**S1-232174**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232174.zip) | Apple, BMWK, vivo | Proposal for Sensing Notifications | discussion |  |  |  |  |  |  |  |  |  | Noted |
| 38 | 7.1.2 | [**S1-232175**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232175.zip) | Apple, BMWK, vivo | Pseudo-CR on Sensing Notifications | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.1 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232447 |
| 39 | 7.1.2 | S1-232447 | Apple, BMWK, vivo | Pseudo-CR on Sensing Notifications |  |  |  |  |  |  |  |  |  | Revision of S1-232175. | Withdrawn |
| 40 | 7.1.2 | [**S1-232176**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232176.zip) | Apple, Xiaomi | Pseudo-CR on Sensing Security description | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.1 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  | Original version, was originally Revised to S1-232448 but the original version was closer to approval.  "Security aspects" to be deleted  ZTE, Vivo: too much information here. Only the first paragraph would be enough.  Ericsson: can be moved to the "overview" section | Revised to S1-232474 |
| 41 | 7.1.2 | S1-232474 | Apple, Xiaomi | Pseudo-CR on Sensing Security description | pCR | 22.137 |  |  |  | 0.0.1 | Rel-19 | Sensing | Replaces S1-232176 | Revision of S1-232176. | Revised to S1-232658 |
| 41r | 7.1.2 | S1-232658 | Apple, Xiaomi | Pseudo-CR on Sensing Security description | pCR | 22.137 |  |  |  | 0.0.1 | Rel-19 | Sensing | Replaces S1-232474 |  | Revised to S1-232660 |
| 41rr | 7.1.2 | S1-232660 | Apple, Xiaomi | Pseudo-CR on Sensing Security description | pCR | 22.137 |  |  |  | 0.0.1 | Rel-19 | Sensing | Replaces S1-232658 |  | Agreed |
| 42 | 7.1.2 | S1-232448 | Apple, Xiaomi | Pseudo-CR on Sensing Security description |  |  |  |  |  |  |  |  |  | Revision of S1-232176. | Revised to S1-232473 |
| 43 | 7.1.2 | S1-232473 | Apple, Xiaomi | Pseudo-CR on Sensing Security description |  |  |  |  |  |  |  |  | Replaces S1-232448 | Revision of S1-232176. Revision of S1-232448. | Noted |
| 44 | 7.1.2 | [**S1-232188**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232188.zip) | Huawei, vivo | 22.137 pCR on network exposure | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232449 |
| 45 | 7.1.2 | S1-232449 | Huawei, vivo | 22.137 pCR on network exposure |  |  |  |  |  |  |  |  |  | Revision of S1-232188.  Apple is presenting to collect initial feedback.  Ericsson: this is a specific case, that should not be mentioned. | Revised to S1-232475 |
| 46 | 7.1.2 | S1-232475 | Huawei, vivo | 22.137 pCR on network exposure |  |  |  |  |  |  |  |  | Replaces S1-232449 | Revision of S1-232188. Revision of S1-232449. | Agreed |
| 47 | 7.1.2 | [**S1-232215**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232215.zip) | Xiaomi Communications | Adding Security requirements to 22.137 | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232429 |
| 48 | 7.1.2 | S1-232429 | Xiaomi | Adding Security requirements to 22.137 |  |  |  |  |  |  |  |  |  | Revision of S1-232215. | Revised to S1-232424 |
| 49 | 7.1.2 | S1-232424 | Xiaomi | Adding Security requirements to 22.137 |  |  |  |  |  |  |  |  |  | Revision of S1-232215. Revision of S1-232429.  This new section lists key parameters that might overlap/contradict other sections. | Revised to S1-232476 |
| 50 | 7.1.2 | S1-232476 | Xiaomi | Adding Security requirements to 22.137 |  |  |  |  |  |  |  |  | Replaces S1-232424 | Revision of S1-232215. Revision of S1-232429. Revision of S1-232424. | Agreed |
| 52 | 7.1.2 | [**S1-232064**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232064.zip) | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on 5G Wireless sensing performance requirements | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Revised to S1-232599 |
| 53 | 7.1.2 | S1-232599 | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on 5G Wireless sensing performance requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232064. | Revised to S1-232617 |
| 54 | 7.1.2 | S1-232617 | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on 5G Wireless sensing performance requirements |  |  |  |  |  |  |  |  | Replaces S1-232599 | Revision of S1-232064. Revision of S1-232599. | Revised to S1-232622 |
| 55 | 7.1.2 | S1-232622 | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on 5G Wireless sensing performance requirements |  |  |  |  |  |  |  |  | Replaces S1-232617 | 5 and 8 to be removed as per Ericsson request. Acceptable to Nokia but not to Qualcomm. | Revised to S1-232642 |
| 56 | 7.1.2 | S1-232642 | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on 5G Wireless sensing performance requirements |  |  |  |  |  |  |  |  | Replaces S1-232622 | Revision of S1-232064. Revision of S1-232599. Revision of S1-232617. Revision of S1-232622. | Agreed |
| 57 | 7.1.2 | [**S1-232057**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232057.zip) | Xiaomi | General description for sensing services | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0706 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Noted |
| 58 | 7.1.2 | [**S1-232171**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232171.zip) | Huawei | 22.137 pCR on network exposure | pCR | [22.137](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4198) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Sensing](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000026) |  |  | Withdrawn |
| 01 | 7.1.3 | S1-232587 | Rapporteur (Deutsche Telekom) | Cover sheet of the TS22.137 for approval |  |  |  |  |  |  |  |  |  | "80% complete" to be added.  To be presented only for information still, because there is a lot of editorial clean-up anticipated. | Agreed |
| 02 | 7.1.3 | S1-232588 | Rapporteur (Deutsche Telekom) | TS 22.137v0.1.0 Integrated Sensing and Communication |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 03 | 7.2.1 | [**S1-232178**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232178.zip) | OPPO | Pseudo-CR on TR Clean-up | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | for TR clean-up |  | Agreed |
| 04 | 7.2.1 | [**S1-232033**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232033.zip) | OPPO | pCR on reference to EPC Tag Data Standard | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This contribution provides updates on the implementation of pCR in S1-231402 agreed in SA1#102. |  | Agreed |
| 05 | 7.2.1 | [**S1-232123**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232123.zip) | OPPO | Adding definition for communication mode | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This document is to add definition for communication mode. |  | Revised to S1-232315 |
| 06 | 7.2.1 | S1-232315 | OPPO | Adding definition for communication mode |  |  |  |  |  |  |  |  |  | Revision of S1-232123. | Agreed |
| 07 | 7.2.1 | [**S1-232177**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232177.zip) | Apple, OPPO | Pseudo-CR on Ambient IoT Overview Clean-up | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232300 |
| 08 | 7.2.1 | S1-232300 | Apple, OPPO | Pseudo-CR on Ambient IoT Overview Clean-up |  |  |  |  |  |  |  |  |  | Revision of S1-232177. | Revised to S1-232379 |
| 09 | 7.2.1 | S1-232379 | Apple, OPPO | Pseudo-CR on Ambient IoT Overview Clean-up |  |  |  |  |  |  |  |  |  | Revision of S1-232177. Revision of S1-232300. | Agreed |
| 11 | 7.2.1 | [**S1-232013**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232013.zip) | Vodafone | Pseudo-CR on update to clause 5.26 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232286 |
| 12 | 7.2.1 | S1-232286 | Vodafone | Pseudo-CR on update to clause 5.26 | pCR | 22.840 |  |  |  | 1.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-232013 | Revision of S1-232013. | Revised to S1-232301 |
| 13 | 7.2.1 | S1-232301 | Vodafone | Pseudo-CR on update to clause 5.26 |  |  |  |  |  |  |  |  |  | Revision of S1-232013. Revision of S1-232286. | Revised to S1-232348 |
| 14 | 7.2.1 | S1-232348 | Vodafone | Pseudo-CR on update to clause 5.26 |  |  |  |  |  |  |  |  |  | Revision of S1-232013. Revision of S1-232286. Revision of S1-232301. | Withdrawn |
| 15 | 7.2.1 | [**S1-232063**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232063.zip) | SHARP Corporation | Pseudo-CR to update service flow and potential requirements of Ambient IoT use case on Device Permanent Deactivation. | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232302 |
| 16 | 7.2.1 | S1-232302 | SHARP | Pseudo-CR to update service flow and potential requirements of Ambient IoT use case on Device Permanent Deactivation. |  |  |  |  |  |  |  |  |  | Revision of S1-232063. | Revised to S1-232349 |
| 17 | 7.2.1 | S1-232349 | SHARP | Pseudo-CR to update service flow and potential requirements of Ambient IoT use case on Device Permanent Deactivation. |  |  |  |  |  |  |  |  |  | Revision of S1-232063. Revision of S1-232302. | Agreed |
| 18 | 7.2.1 | [**S1-232098**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232098.zip) | vivo, OPPO | Update of KPI in Use case 12 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232303 |
| 19 | 7.2.1 | S1-232303 | vivo, OPPO | Update of KPI in Use case 12 |  |  |  |  |  |  |  |  |  | Revision of S1-232098. | Agreed |
| 20 | 7.2.1 | [**S1-232141**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232141.zip) | China Telecommunications | Pseudo-CR to update KPI in clause 5.6 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232279 |
| 21 | 7.2.1 | S1-232279 | China Telecommunications | Pseudo-CR to update KPI in clause 5.6 | pCR | 22.840 |  |  |  | 1.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-232141 | Revision of S1-232141. | Agreed |
| 22 | 7.2.1 | [**S1-232145**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232145.zip) | ZTE | Remove the [] in KPI table of UC5.30 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232304 |
| 23 | 7.2.1 | S1-232304 | ZTE | Remove the [] in KPI table of UC5.30 |  |  |  |  |  |  |  |  |  | Revision of S1-232145. | Agreed |
| 24 | 7.2.1 | [**S1-232147**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232147.zip) | China Mobile Com. Corporation,Haier W.M | pCR for use case: Ambient\_IoT for automated warehousing | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232305 |
| 25 | 7.2.1 | S1-232305 | China Mobile, Haier | pCR for use case: Ambient\_IoT for automated warehousing |  |  |  |  |  |  |  |  |  | Revision of S1-232147. | Agreed |
| 26 | 7.2.1 | [**S1-232148**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232148.zip) | China Mobile Com. Corporation | Discussion of device density in Ambient\_IoT for automated warehousing | discussion | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 27 | 7.2.1 | [**S1-232149**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232149.zip) | China Mobile Com. Corporation | pCR for Use Case Ambient IoT for Base Station Machine Room Environmental Supervision | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Agreed |
| 28 | 7.2.1 | [**S1-232157**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232157.zip) | Huawei Technologies France | Pseudo-CR on updates to KIP table for Intralogistics (clause 5.5) | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Agreed |
| 29 | 7.2.1 | [**S1-232159**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232159.zip) | Xiaomi | Pseudo-CR on Remove brackets in KPI table of use case 5.9 and 5.21 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232306 |
| 30 | 7.2.1 | S1-232306 | Xiaomi | Pseudo-CR on Remove brackets in KPI table of use case 5.9 and 5.21 |  |  |  |  |  |  |  |  |  | Revision of S1-232159. | Revised to S1-232355 |
| 31 | 7.2.1 | S1-232355 | Xiaomi | Pseudo-CR on Remove brackets in KPI table of use case 5.9 and 5.21 |  |  |  |  |  |  |  |  |  | Revision of S1-232159. Revision of S1-232306. | Agreed |
| 32 | 7.2.1 | [**S1-232160**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232160.zip) | Huawei Technologies France | Pseudo-CR on updates to add info for positioning accuracy value for clause 5.10 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232307 |
| 33 | 7.2.1 | S1-232307 | Huawei | Pseudo-CR on updates to add info for positioning accuracy value for clause 5.10 |  |  |  |  |  |  |  |  |  | Revision of S1-232160. | Revised to S1-232388 |
| 34 | 7.2.1 | S1-232388 | Huawei | Pseudo-CR on updates to add info for positioning accuracy value for clause 5.10 |  |  |  |  |  |  |  |  |  | Revision of S1-232160. Revision of S1-232307. | Agreed |
| 35 | 7.2.1 | [**S1-232167**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232167.zip) | Huawei Technologies France | Pseudo-CR on updates clause5\_13 BTSMachineRoom latency kpi | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232308 |
| 36 | 7.2.1 | S1-232308 | Huawei | Pseudo-CR on updates clause5\_13 BTSMachineRoom latency kpi |  |  |  |  |  |  |  |  |  | Revision of S1-232167. No presentation | Revised to S1-232359 |
| 37 | 7.2.1 | S1-232359 | Huawei | Pseudo-CR on updates clause5\_13 BTSMachineRoom latency kpi |  |  |  |  |  |  |  |  |  | Revision of S1-232167. Revision of S1-232308. | Agreed |
| 38 | 7.2.1 | [**S1-232168**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232168.zip) | Huawei Technologies France | Pseudo-CR on adding info for positioning accuracy value for clause 5.10 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232309 |
| 39 | 7.2.1 | S1-232309 | Huawei | Pseudo-CR on adding info for positioning accuracy value for clause 5.10 |  |  |  |  |  |  |  |  |  | Revision of S1-232168. | Revised to S1-232387 |
| 40 | 7.2.1 | S1-232387 | Huawei | Pseudo-CR on adding info for positioning accuracy value for clause 5.10 |  |  |  |  |  |  |  |  |  | Revision of S1-232168. Revision of S1-232309. | Agreed |
| 41 | 7.2.1 | [**S1-232169**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232169.zip) | Huawei Technologies France | Pseudo-CR on updates for clause5\_30 controllerAgriculture latency kpi | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232310 |
| 42 | 7.2.1 | S1-232310 | Huawei | Pseudo-CR on updates for clause5\_30 controllerAgriculture latency kpi |  |  |  |  |  |  |  |  |  | Revision of S1-232169. | Agreed |
| 43 | 7.2.1 | [**S1-232170**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232170.zip) | Huawei Technologies France | Pseudo-CR on updates Clause 5.24 square brackets removal for smart manhole cover safety monitoring Communication Range KPI | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232358 |
| 44 | 7.2.1 | S1-232358 | Huawei | Pseudo-CR on updates Clause 5.24 square brackets removal for smart manhole cover safety monitoring Communication Range KPI |  |  |  |  |  |  |  |  |  | Revision of S1-232170. | Revised to S1-232380 |
| 45 | 7.2.1 | S1-232380 | Huawei | Pseudo-CR on updates Clause 5.24 square brackets removal for smart manhole cover safety monitoring Communication Range KPI |  |  |  |  |  |  |  |  |  | Revision of S1-232170. Revision of S1-232358. | Agreed |
| 46 | 7.2.1 | [**S1-232172**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232172.zip) | Huawei Technologies France | Pseudo-CR on updates for clause5\_25 comRange kpi-smartBridge | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Agreed |
| 47 | 7.2.1 | [**S1-232206**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232206.zip) | KPN | Removing Editor’s Note on ‘timers’ in clause 5.28 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This pCR proposes to remove the Editor’s note on timer terminology. Timer is clarified as commonly used in many 3GPP protocols. |  | Revised to S1-232311 |
| 48 | 7.2.1 | S1-232311 | KPN | Removing Editor s Note on timers in clause 5.28 |  |  |  |  |  |  |  |  |  | Revision of S1-232206. | Revised to S1-232381 |
| 49 | 7.2.1 | S1-232381 | KPN | Removing Editor s Note on timers in clause 5.28 |  |  |  |  |  |  |  |  |  | Revision of S1-232206. Revision of S1-232311. No presentation | Agreed |
| 51 | 7.2.1 | [**S1-232212**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232212.zip) | KPN | Removal of square brackets in KPI tables 6.1.4-1 and 6.2.4-1 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232278 |
| 52 | 7.2.1 | S1-232278 | KPN | Removal of square brackets in KPI tables 6.1.4-1 and 6.2.4-1 | pCR | 22.840 |  |  |  | 1.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-232212 | Revision of S1-232212. | Revised to S1-232312 |
| 53 | 7.2.1 | S1-232312 | KPN | Removal of square brackets in KPI tables 6.1.4-1 and 6.2.4-1 |  |  |  |  |  |  |  |  |  | Revision of S1-232212. Revision of S1-232278. | Revised to S1-232382 |
| 54 | 7.2.1 | S1-232382 | KPN | Removal of square brackets in KPI tables 6.1.4-1 and 6.2.4-1 |  |  |  |  |  |  |  |  |  | Revision of S1-232212. Revision of S1-232278. Revision of S1-232312.  Ericsson: "unavailability" to be changed to "availability" | Revised to S1-232389 |
| 55 | 7.2.1 | S1-232389 | KPN | Removal of square brackets in KPI tables 6.1.4-1 and 6.2.4-1 |  |  |  |  |  |  |  |  | Replaces S1-232382 | Revision of S1-232212. Revision of S1-232278. Revision of S1-232312. Revision of S1-232382. NOTE 1: Chance of communication service unavailability needs to be significantly lower than chance of errors in logistics handling. This communication service availability applies at application level, the communication service availability at radio level can be different. | Agreed |
| 56 | 7.2.1 | [**S1-232034**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232034.zip) | OPPO | pCR on KPIs for Ambient IoT traffic scenario on Electronic Shelf Label | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This contribution provides updates on the implementation of pCR agreed in S1-231464. |  | Revised to S1-232313 |
| 57 | 7.2.1 | S1-232313 | OPPO | pCR on KPIs for Ambient IoT traffic scenario on Electronic Shelf Label |  |  |  |  |  |  |  |  |  | Revision of S1-232034. | Agreed |
| 59 | 7.2.1 | [**S1-232117**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232117.zip) | OPPO (Rapporteur) | Ambient IoT functional CPR | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This is the CPRs in S1-231456 which were converged in SA1#102, except the text in yellow highlight for further clarification. It is proposed to bring it back and get approved. |  | Revised to S1-232264 |
| 60 | 7.2.1 | S1-232264 | OPPO | Ambient IoT functional CPR |  |  |  |  |  |  |  |  |  | Revision of S1-232117. | Revised to S1-232342 |
| 61 | 7.2.1 | S1-232342 | OPPO | Ambient IoT functional CPR |  |  |  |  |  |  |  |  |  | Revision of S1-232117. Revision of S1-232264.  The first requirement should have been move to Qualcomm's 2383 | Revised to S1-232391 |
| 62 | 7.2.1 | S1-232391 | OPPO | Ambient IoT functional CPR |  |  |  |  |  |  |  |  | Replaces S1-232342 | Revision of S1-232117. Revision of S1-232264. Revision of S1-232342. Delete first requirement | Agreed |
| 63 | 7.2.1 | S1-232343 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with an AmbientIoT device |  |  |  |  |  |  |  |  |  | Revision of S1-232096. | Revised to S1-232383 |
| 64 | 7.2.1 | S1-232383 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with an AmbientIoT device |  |  |  |  |  |  |  |  |  | Revision of S1-232096. Revision of S1-232343. | Revised to S1-232390 |
| 65 | 7.2.1 | S1-232390 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with an AmbientIoT device |  |  |  |  |  |  |  |  | Replaces S1-232383 | Revision of S1-232096. Revision of S1-232343. Revision of S1-232383. | Revised to S1-232644 |
| 65r | 7.2.1 | S1-232644 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with an AmbientIoT device |  |  |  |  |  |  |  |  | Replaces S1-232390 |  | Agreed. |
| 66 | 7.2.1 | [**S1-232096**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232096.zip) | QUALCOMM JAPAN LLC. | Pseudo-CR on CPR proposals for Ambient IoT | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232262 |
| 67 | 7.2.1 | S1-232262 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT |  |  |  |  |  |  |  |  |  | Revision of S1-232096. | Revised to S1-232344 |
| 68 | 7.2.1 | S1-232344 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT |  |  |  |  |  |  |  |  |  | Revision of S1-232096. Revision of S1-232262. | Revised to S1-232619 |
| 69 | 7.2.1 | S1-232619 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT |  |  |  |  |  |  |  |  | Replaces S1-232344 | Revision of S1-232096. Revision of S1-232262. Revision of S1-232344. | Agreed |
| 70 | 7.2.1 | S1-232263 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with 3rd party |  |  |  |  |  |  |  |  |  | Revision of S1-232096. | Revised to S1-232345 |
| 71 | 7.2.1 | S1-232345 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with 3rd party |  |  |  |  |  |  |  |  |  | Revision of S1-232096. Revision of S1-232263. | Revised to S1-232384 |
| 72 | 7.2.1 | S1-232384 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with 3rd party |  |  |  |  |  |  |  |  |  | Revision of S1-232096. Revision of S1-232263. Revision of S1-232345. | Revised to S1-232392 |
| 73 | 7.2.1 | S1-232392 | Qualcomm | Pseudo-CR on CPR proposals for Ambient IoT communication with 3rd party |  |  |  |  |  |  |  |  | Replaces S1-232384 | Revision of S1-232096. Revision of S1-232263. Revision of S1-232345. Revision of S1-232384. | Agreed |
| 74 | 7.2.1 | [**S1-232226**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232226.zip) | Apple, KPN | Pseudo-CR on Ambient IoT On-demand access | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-232258 |
| 75 | 7.2.1 | S1-232258 | Apple, KPN | Pseudo-CR on Ambient IoT On-demand access | pCR | 22.840 |  |  |  | 1.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-232226 | Revision of S1-232226. | Revised to S1-232340 |
| 76 | 7.2.1 | S1-232340 | Apple, KPN | Pseudo-CR on Ambient IoT On-demand access |  |  |  |  |  |  |  |  |  | Revision of S1-232226. Revision of S1-232258. | Revised to S1-232346 |
| 77 | 7.2.1 | S1-232346 | Apple, KPN | Pseudo-CR on Ambient IoT On-demand access |  |  |  |  |  |  |  |  |  | Revision of S1-232226. Revision of S1-232258. Revision of S1-232340. | Noted |
| 78 | 7.2.1 | [**S1-232229**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232229.zip) | KPN | Pseudo-CR on Ambient IoT Security CPR | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Proposes re-wording of a requirement related to security |  | Revised to S1-232266 |
| 79 | 7.2.1 | S1-232266 | KPN | Pseudo-CR on Ambient IoT Security CPR |  |  |  |  |  |  |  |  |  | Revision of S1-232229. | Revised to S1-232347 |
| 80 | 7.2.1 | S1-232347 | KPN | Pseudo-CR on Ambient IoT Security CPR |  |  |  |  |  |  |  |  |  | Revision of S1-232229. Revision of S1-232266. | Revised to S1-232393 |
| 81 | 7.2.1 | S1-232393 | KPN | Pseudo-CR on Ambient IoT Security CPR |  |  |  |  |  |  |  |  | Replaces S1-232347 | Revision of S1-232229. Revision of S1-232266. Revision of S1-232347. The 5G system shall enable security protection suitable for Ambient IoT, without compromising overall 5G security protection. | Agreed |
| 82 | 7.2.1 | [**S1-232122**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232122.zip) | OPPO | Update of Consolidation of Ambient IoT functional CPR (other CPRs than 231456) | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | the CPRs are the leftover CPRs which were not converged in SA1#102. It is proposed to further discuss and update it in order to get it approved. |  | Revised to S1-232350 |
| 83 | 7.2.1 | S1-232350 | OPPO | Update of Consolidation of Ambient IoT functional CPR (other CPRs than 231456) |  |  |  |  |  |  |  |  |  | Revision of S1-232122. | Revised to S1-232385 |
| 84 | 7.2.1 | S1-232385 | OPPO | Update of Consolidation of Ambient IoT functional CPR (other CPRs than 231456) |  |  |  |  |  |  |  |  |  | Revision of S1-232122. Revision of S1-232350.  option 1: preferred by 5 companies (KPN, Qc, etc)  option 2: preferred by 8 companies  Qualcomm is OK for both  Left opened | Revised to S1-232394 |
| 85 | 7.2.1 | S1-232394 | OPPO | Update of Consolidation of Ambient IoT functional CPR (other CPRs than 231456) |  |  |  |  |  |  |  |  | Replaces S1-232385 | Revision of S1-232122. Revision of S1-232350. Revision of S1-232385.  3rd req is controversial, so it is to be isolated in another document to allow the other ones to be agreed. | Revised to S1-232645 |
| 85r | 7.2.1 | S1-232645 | OPPO | Update of Consolidation of Ambient IoT functional CPR (other CPRs than 231456) |  |  |  |  |  |  |  |  | Replaces S1-232394 | 3rd req removed | Agreed |
| 85rr | 7.2.1 | S1-232647 | OPPO | Update of Consolidation of Ambient IoT functional CPR (other CPRs than 231456) |  |  |  |  |  |  |  |  | From S1-232394/2645 | only 3req here | Agreed |
| 86 | 7.2.1 | [**S1-232127**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232127.zip) | OPPO, [CMCC, Futurewei, vivo, Huawei] | Consolidation on KPI for Ambient IoT (Revisio of S1-231766) | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Consolidation on KPI for Ambient IoT based on the KPI table in S1-231766 which was converged in SA1#102 |  | Revised to S1-232341 |
| 87 | 7.2.1 | S1-232341 | OPPO, [CMCC, Futurewei, vivo, Huawei] | Consolidation on KPI for Ambient IoT (Revisio of S1-231766) |  |  |  |  |  |  |  |  |  | Revision of S1-232127. | Revised to S1-232351 |
| 88 | 7.2.1 | S1-232351 | OPPO, [CMCC, Futurewei, vivo, Huawei] | Consolidation on KPI for Ambient IoT (Revisio of S1-231766) |  |  |  |  |  |  |  |  |  | Revision of S1-232127. Revision of S1-232341. | Revised to S1-232386 |
| 89 | 7.2.1 | S1-232386 | OPPO, [CMCC, Futurewei, vivo, Huawei] | Consolidation on KPI for Ambient IoT (Revisio of S1-231766) |  |  |  |  |  |  |  |  |  | Revision of S1-232127. Revision of S1-232341. Revision of S1-232351. | Revised to S1-232399 |
| 90 | 7.2.1 | S1-232399 | OPPO, [CMCC, Futurewei, vivo, Huawei] | Consolidation on KPI for Ambient IoT (Revisio of S1-231766) |  |  |  |  |  |  |  |  | Replaces S1-232386 | Revision of S1-232127. Revision of S1-232341. Revision of S1-232351. Revision of S1-232386. | Revised to S1-232648 |
| 90r | 7.2.1 | S1-232648 | OPPO, [CMCC, Futurewei, vivo, Huawei] | Consolidation on KPI for Ambient IoT (Revisio of S1-231766) |  |  |  |  |  |  |  |  | Replaces S1-232399 |  | Agreed. |
| 91 | 7.2.1 | [**S1-232128**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232128.zip) | OPPO | Conclusions for TR22840 | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Conclusions for TR22840 |  | Revised to S1-232352 |
| 92 | 7.2.1 | S1-232352 | OPPO | Conclusions for TR22840 |  |  |  |  |  |  |  |  |  | Revision of S1-232128. | Agreed |
| 93 | 7.2.1 | S1-232030 | OPPO | Assessment of UICC for Ambient IoT devices | discussion | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | This contribution discusses an assessment of UICC for Ambient IoT devices. |  | Withdrawn |
| 94 | 7.2.1 | S1-232031 | OPPO | pCR to further clarify on Ambient IoT device definition and UICC | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This contribute proposes to update text to further clarify Ambient IoT definition and UICC on Ambient IoT devices. |  | Withdrawn |
| 95 | 7.2.1 | S1-232032 | OPPO | pCR on UICC considerations for Ambient IoT devices | pCR | [22.840](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This contribute proposes to add Annex C (informative) to provide UICC considerations for Ambient IoT devices. |  | Withdrawn |
| 01 | 7.2.2 | [**S1-232132**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232132.zip) | OPPO | Skeleton for new TS on Ambient IoT - if new TS would be needed | other |  |  |  |  |  |  |  | Skeleton for new TS on Ambient IoT - if new TS would be needed |  | Revised to S1-232374 |
| 02 | 7.2.2 | S1-232374 | OPPO | Skeleton for new TS on Ambient IoT - if new TS would be needed |  |  |  |  |  |  |  |  |  | Revision of S1-232132. | Agreed |
| 03 | 7.2.2 | [**S1-232133**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232133.zip) | OPPO | Scope for Ambient IoT TS | other |  |  |  |  |  |  |  | Scope for Ambient IoT TS |  | Revised to S1-232273 |
| 04 | 7.2.2 | S1-232273 | OPPO | Scope for Ambient IoT TS | other |  |  |  |  |  |  |  | Replaces S1-232133 | Revision of S1-232133. | Revised to S1-232375 |
| 05 | 7.2.2 | S1-232375 | OPPO | Scope for Ambient IoT TS |  |  |  |  |  |  |  |  |  | Revision of S1-232133. Revision of S1-232273. | Revised to S1-232396 |
| 06 | 7.2.2 | S1-232396 | OPPO | Scope for Ambient IoT TS |  |  |  |  |  |  |  |  | Replaces S1-232375 | Revision of S1-232133. Revision of S1-232273. Revision of S1-232375. Editorials and format of the Note. Ambient IoT consistenly through the text. | Agreed |
| 07 | 7.2.2 | [**S1-232136**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232136.zip) | OPPO | Overview for Ambient IoT TS | other |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Overview for Ambient IoT TS |  | Merge into S1-232265 |
| 08 | 7.2.2 | [**S1-232228**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232228.zip) | KPN | Alternative Overview section for Ambient IoT TS | other |  |  |  |  |  |  |  | This document provides an alternative Overview section, based on what was proposed by Oppo and Apple in S1-232136. The main difference is that specific sections are proposed on AIoT device characteristics and typical AIoT use cases. The idea is that this way the Ambient IoT TS can provide some more information without immediately going into normative requirement statements. This should lead to better understanding by the readers. |  | Revised to S1-232265 |
| 09 | 7.2.2 | S1-232265 | KPN | Alternative Overview section for Ambient IoT TS |  |  |  |  |  |  |  |  |  | Revision of S1-232228. | Revised to S1-232372 |
| 10 | 7.2.2 | S1-232372 | KPN | Alternative Overview section for Ambient IoT TS |  |  |  |  |  |  |  |  |  | Revision of S1-232228. Revision of S1-232265. | Revised to S1-232376 |
| 11 | 7.2.2 | S1-232376 | KPN | Alternative Overview section for Ambient IoT TS |  |  |  |  |  |  |  |  |  | Revision of S1-232228. Revision of S1-232265. Revision of S1-232372. | Revised to S1-232397 |
| 12 | 7.2.2 | S1-232397 | KPN | Alternative Overview section for Ambient IoT TS |  |  |  |  |  |  |  |  | Replaces S1-232376 | Revision of S1-232228. Revision of S1-232265. Revision of S1-232372. Revision of S1-232376. | Revised to S1-232649 |
| 12r | 7.2.2 | S1-232649 | KPN | Alternative Overview section for Ambient IoT TS |  |  |  |  |  |  |  |  | Replaces S1-232397 |  | Agreed. |
| 13 | 7.2.2 | [**S1-232139**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232139.zip) | OPPO | Input to new TS - Ambient IoT functional requirements | other |  |  |  |  |  |  |  | Input to new TS - Ambient IoT functional requirements, copying consolidated requirement in TR22.840 |  | Revised to S1-232353 |
| 14 | 7.2.2 | S1-232353 | OPPO | Input to new TS - Ambient IoT functional requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232139. | Revised to S1-232377 |
| 15 | 7.2.2 | S1-232377 | OPPO | Input to new TS - Ambient IoT functional requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232139. Revision of S1-232353. | Revised to S1-232398 |
| 16 | 7.2.2 | S1-232398 | OPPO | Input to new TS - Ambient IoT functional requirements |  |  |  |  |  |  |  |  | Replaces S1-232377 | Revision of S1-232139. Revision of S1-232353. Revision of S1-232377. | Revised to S1-232643 |
| 17 | 7.2.2 | S1-232643 | OPPO | Input to new TS - Ambient IoT functional requirements |  |  |  |  |  |  |  |  | Replaces S1-232398 | Revision of S1-232139. Revision of S1-232353. Revision of S1-232377. Revision of S1-232398. Formatting issues | Revised to S1-232650 |
| 17r | 7.2.2 | S1-232650 | OPPO | Input to new TS - Ambient IoT functional requirements |  |  |  |  |  |  |  |  | Replaces S1-232643 |  | Revised to S1-232664 |
| 17rr | 7.2.2 | S1-232664 | OPPO | Input to new TS - Ambient IoT functional requirements |  |  |  |  |  |  |  |  | Replaces S1-232650 |  | Agreed. |
| 18 | 7.2.2 | [**S1-232138**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232138.zip) | OPPO | Input to new TS - Ambient IoT performance requirements | other |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Input to new TS - Ambient IoT performance requirements, copying consolidated requirement in TR22.840 |  | Revised to S1-232354 |
| 19 | 7.2.2 | S1-232354 | OPPO | Input to new TS - Ambient IoT performance requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232138. | Revised to S1-232378 |
| 20 | 7.2.2 | S1-232378 | OPPO | Input to new TS - Ambient IoT performance requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232138. Revision of S1-232354. | Revised to S1-232629 |
| 21 | 7.2.2 | S1-232629 | OPPO | Input to new TS - Ambient IoT performance requirements |  |  |  |  |  |  |  |  | Replaces S1-232378 | Revision of S1-232138. Revision of S1-232354. Revision of S1-232378. Formatting issues | Revised to S1-232651 |
| 21r | 7.2.2 | S1-232651 | OPPO | Input to new TS - Ambient IoT performance requirements |  |  |  |  |  |  |  |  | Replaces S1-232629 |  | Agreed |
| 22 | 7.2.2 | [**S1-232140**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232140.zip) | OPPO | TS.22.261\_Adding clause for Ambient IoT | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0712 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_AmbientIoT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Adding new clause and definiton for Ambient IoT |  | Noted |
| 23 | 7.2.2 | [**S1-232129**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232129.zip) | OPPO | New WID on Ambient power-enabled Internet of Things | WID new |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | New WID on Ambient power-enabled Internet of Things | Moved from 7.2.2 | Revised to S1-232272 |
| 01 | 7.2.3 | S1-232589 | Rapporteur (OPPO) | Cover sheet of the TR 22.840 for approval |  |  |  |  |  |  |  |  |  | SA1 decision: TR for approval, TS for information | Agreed |
| 02 | 7.2.3 | S1-232590 | Rapporteur (OPPO) | TR 22.840v1.3.0 Study on Ambient power-enabled Internet of Things |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 03 | 7.2.3 | S1-232591 | Rapporteur (OPPO) | Cover sheet of the TS 22.xxx for approval |  |  |  |  |  |  |  |  |  | SA1 decision: TR for approval, TS for information  % of completion to be added (it is 80%) | Revised to S1-232665 |
| 03r | 7.2.3 | S1-232665 | Rapporteur (OPPO) | Cover sheet of the TS 22.xxx for approval |  |  |  |  |  |  |  |  | Replaces S1-232591 |  | Agreed. |
| 04 | 7.2.3 | S1-232592 | Rapporteur (OPPO) | TS 22.xxxv0.1.0 Study on Ambient power-enabled Internet of Things |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 02 | 7.3.1 | [**S1-232068**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232068.zip) | Samsung, Huawei | Clean Up | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0001 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Cleans up remaining small editorial issues in TR 22.856. | Should be cat D | Agreed |
| 03 | 7.3.1 | [**S1-232069**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232069.zip) | Samsung, Huawei, Nokia, Nokia Shanghai Bell, NTT DOCOMO | Addition of consolidated requirements | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0002 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Progresses agreements from SA1 102. |  | Revised to S1-232400 |
| 04 | 7.3.1 | S1-232400 | Samsung, Huawei, Nokia, Nokia Shanghai Bell, NTT DOCOMO | 22.856v19.0.0 Addition of consolidated requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232069. | Revised to S1-232415 |
| 05 | 7.3.1 | S1-232415 | Samsung, Huawei, Nokia, Nokia Shanghai Bell, NTT DOCOMO | 22.856v19.0.0 Addition of consolidated requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232069. Revision of S1-232400.  Changes on changes.  Note at the end to be rephrased | Revised to S1-232477 |
| 06 | 7.3.1 | S1-232477 | Samsung, Huawei, Nokia, Nokia Shanghai Bell, NTT DOCOMO | 22.856v19.0.0 Addition of consolidated requirements |  |  |  |  |  |  |  |  | Replaces S1-232415 | Revision of S1-232069. Revision of S1-232400. No changes on changes and update the last note to the present document Revision of S1-232415. | Agreed |
| 07 | 7.3.1 | [**S1-232110**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232110.zip) | China Telecom | consolidation of requirements on digital assets | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0004 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) |  |  | Revised to S1-232401 |
| 08 | 7.3.1 | S1-232401 | China Telecom | 22.856v19.0.0 consolidation of requirements on digital assets |  |  |  |  |  |  |  |  |  | Revision of S1-232110. | Revised to S1-232416 |
| 09 | 7.3.1 | S1-232416 | China Telecom | 22.856v19.0.0 consolidation of requirements on digital assets |  |  |  |  |  |  |  |  |  | Revision of S1-232110. Revision of S1-232401. Remove change on change, add text Summary of change | Agreed |
| 10 | 7.3.1 | [**S1-232119**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232119.zip) | vivo | Update on the consolidate requirements for coordination and synchronization of data flows | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0005 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Merge to S1-232400 |
| 11 | 7.3.1 | [**S1-232120**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232120.zip) | vivo | Update on the consolidate requirements for end to end round trip latency | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0006 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Merge to S1-232403 |
| 12 | 7.3.1 | [**S1-232191**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232191.zip) | Philips International B.V. | Clarification of use case 5.9 for requirement consolidation | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0007 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Revised to S1-232402 |
| 13 | 7.3.1 | S1-232402 | Philips | 22.856v19.0.0 Clarification of use case 5.9 for requirement consolidation |  |  |  |  |  |  |  |  |  | Revision of S1-232191. | Revised to S1-232423 |
| 14 | 7.3.1 | S1-232423 | Philips | 22.856v19.0.0 Clarification of use case 5.9 for requirement consolidation |  |  |  |  |  |  |  |  |  | Revision of S1-232191. Revision of S1-232402. | Agreed |
| 15 | 7.3.1 | [**S1-232085**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232085.zip) | Huawei, Nokia, Nokia Shanghai Bell, Samsung | Addition of consolidated KPI requirements | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0003 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Revised to S1-232403 |
| 16 | 7.3.1 | S1-232403 | Huawei, Nokia, Nokia Shanghai Bell, Samsung | 22.856v19.0.0 Addition of consolidated KPI requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232085. | Agreed |
| 17 | 7.3.1 | [**S1-232218**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232218.zip) | Orange, Samsung | 22.856 CR – addition of “Digital wallet” in section 3 Definitions of terms, symbols and abbreviations | CR | [22.856](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) | 0008 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | The contribution proposes to add the definition of “Digital wallet” in section 3 “Definitions of terms, symbols and abbreviations” in TR 22.856 in order to align both documents TR 22.856 and TS 22.156. |  | Agreed |
| 03 | 7.3.2 | [**S1-232072**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232072.zip) | Rapporteur (Samsung) | 22.156 Skeletion | other | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | A proposal for the TS 28.318 structure. |  | Revised to S1-232261 |
| 04 | 7.3.2 | S1-232261 | Rapporteur (Samsung) | 22.156 Skeleton |  |  |  |  |  |  |  |  |  | Revision of S1-232072. | Revised to S1-232405 |
| 05 | 7.3.2 | S1-232405 | Rapporteur (Samsung) | 22.156 Skeleton |  |  |  |  |  |  |  |  |  | Revision of S1-232072. Revision of S1-232261. | Revised to S1-232605 |
| 06 | 7.3.2 | S1-232605 | Rapporteur (Samsung) | 22.156 Skeleton |  |  |  |  |  |  |  |  | Replaces S1-232405 | "Functional requirements" has been changed to "Functional service requirement" | Agreed |
| 07 | 7.3.2 | [**S1-232074**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232074.zip) | Samsung | 22.156 pCR 1 Scope | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a scope for the new TS. |  | Agreed |
| 08 | 7.3.2 | [**S1-232083**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232083.zip) | Samsung, Huawei | 22.156 pCR 2 References | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a references clause for the new TS. |  | Revised to S1-232406 |
| 09 | 7.3.2 | S1-232406 | Samsung, Huawei | 22.156 pCR 2 References |  |  |  |  |  |  |  |  |  | Revision of S1-232083. | Agreed |
| 10 | 7.3.2 | [**S1-232075**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232075.zip) | Samsung, Huawei, Orange | 22.156 pCR 3 Terminology and Acronyms | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a scope for the new TS. |  | Revised to S1-232407 |
| 11 | 7.3.2 | S1-232407 | Samsung, Huawei, Orange | 22.156 pCR 3 Terminology and Acronyms |  |  |  |  |  |  |  |  |  | Revision of S1-232075. | Agreed |
| 12 | 7.3.2 | [**S1-232076**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232076.zip) | Samsung | 22.156 pCR 4 Overview | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a scope for the new TS. |  | Agreed |
| 14 | 7.3.2 | [**S1-232077**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232077.zip) | Samsung, Huawei | 22.156 pCR 5.1.1 General Requirements, Operational efficiency, exposure, and coordination | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a scope for the new TS. |  | Revised to S1-232408 |
| 15 | 7.3.2 | S1-232408 | Samsung, Huawei | 22.156 pCR 5.1.1 General Requirements, Operational efficiency, exposure, and coordination |  |  |  |  |  |  |  |  |  | Revision of S1-232077. | Revised to S1-232417 |
| 16 | 7.3.2 | S1-232417 | Samsung, Huawei | 22.156 pCR 5.1.1 General Requirements, Operational efficiency, exposure, and coordination |  |  |  |  |  |  |  |  |  | Revision of S1-232077. Revision of S1-232408. | Revised to S1-232478 |
| 17 | 7.3.2 | S1-232478 | Samsung, Huawei | 22.156 pCR 5.1.1 General Requirements, Operational efficiency, exposure, and coordination |  |  |  |  |  |  |  |  | Replaces S1-232417 | Revision of S1-232077. Revision of S1-232408. Revision of S1-232417. | Agreed |
| 18 | 7.3.2 | [**S1-232078**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232078.zip) | Samsung | 22.156 pCR 5.2.1 Localized mobile metaverse service | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a scope for the new TS. |  | Revised to S1-232409 |
| 19 | 7.3.2 | S1-232409 | Samsung | 22.156 pCR 5.2.1 Localized mobile metaverse service |  |  |  |  |  |  |  |  |  | Revision of S1-232078. | Revised to S1-232418 |
| 20 | 7.3.2 | S1-232418 | Samsung | 22.156 pCR 5.2.1 Localized mobile metaverse service |  |  |  |  |  |  |  |  |  | Revision of S1-232078. Revision of S1-232409. | Revised to S1-232623 |
| 21 | 7.3.2 | S1-232623 | Samsung | 22.156 pCR 5.2.1 Localized mobile metaverse service |  |  |  |  |  |  |  |  | Replaces S1-232418 | The Rapporteur will change the section names to make them consistent. | Agreed |
| 22 | 7.3.2 | [**S1-232060**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232060.zip) | AsiaInfo, Samsung, China Unicom, Huawei | 22.156 pCR 5.2.2 Avatar-based real-time communication | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) |  |  | Revised to S1-232410 |
| 23 | 7.3.2 | S1-232410 | AsiaInfo, Samsung, China Unicom, Huawei | 22.156 pCR 5.2.2 Avatar-based real-time communication |  |  |  |  |  |  |  |  |  | Revision of S1-232060. | Revised to S1-232419 |
| 24 | 7.3.2 | S1-232419 | AsiaInfo, Samsung, China Unicom, Huawei | 22.156 pCR 5.2.2 Avatar-based real-time communication |  |  |  |  |  |  |  |  |  | Revision of S1-232060. Revision of S1-232410. | Agreed |
| 25 | 7.3.2 | [**S1-232061**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232061.zip) | AsiaInfo, Samsung, China Unicom, Huawei, Orange | 22.156 pCR 5.2.3 Digital Asset Management | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) |  |  | Revised to S1-232411 |
| 26 | 7.3.2 | S1-232411 | AsiaInfo, Samsung, China Unicom, Huawei, Orange | 22.156 pCR 5.2.3 Digital Asset Management |  |  |  |  |  |  |  |  |  | Revision of S1-232061. | Revised to S1-232420 |
| 27 | 7.3.2 | S1-232420 | AsiaInfo, Samsung, China Unicom, Huawei, Orange | 22.156 pCR 5.2.3 Digital Asset Management |  |  |  |  |  |  |  |  |  | Revision of S1-232061. Revision of S1-232411. | Revised to S1-232620 |
| 28 | 7.3.2 | S1-232620 | AsiaInfo, Samsung, China Unicom, Huawei, Orange | 22.156 pCR 5.2.3 Digital Asset Management |  |  |  |  |  |  |  |  | Replaces S1-232420 | Revision of S1-232061. Revision of S1-232411. Revision of S1-232420. | Agreed |
| 29 | 7.3.2 | [**S1-232086**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232086.zip) | Huawei, Samsung | 22.156 pCR 6 Performance requirements | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) |  |  | Revised to S1-232412 |
| 30 | 7.3.2 | S1-232412 | Huawei, Samsung | 22.156 pCR 6 Performance requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232086. | Agreed |
| 32 | 7.3.2 | [**S1-232079**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232079.zip) | Samsung, Huawei, NTT DOCOMO | 22.156 pCR 7 Security and privacy | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR adds the security and privacy clause agreed in the conclusion of FS\_Metaverse study. |  | Revised to S1-232413 |
| 33 | 7.3.2 | S1-232413 | Samsung, Huawei, NTT DOCOMO | 22.156 pCR 7 Security and privacy |  |  |  |  |  |  |  |  |  | Revision of S1-232079. | Revised to S1-232421 |
| 34 | 7.3.2 | S1-232421 | Samsung, Huawei, NTT DOCOMO | 22.156 pCR 7 Security and privacy |  |  |  |  |  |  |  |  |  | Revision of S1-232079. Revision of S1-232413. | Agreed |
| 35 | 7.3.2 | [**S1-232080**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232080.zip) | Samsung, Huawei | 22.156 pCR 8 Charging aspects | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a scope for the new TS. |  | Agreed |
| 36 | 7.3.2 | [**S1-232248**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232248.zip) | Nokia, Nokia Shanghai Bell, Samsung | 22.156 pCR on Annex on mobile metaverse services | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) |  |  | Revised to S1-232414 |
| 37 | 7.3.2 | S1-232414 | Nokia, Nokia Shanghai Bell, Samsung | 22.156 pCR on Annex on mobile metaverse services |  |  |  |  |  |  |  |  |  | Revision of S1-232248. | Revised to S1-232422 |
| 38 | 7.3.2 | S1-232422 | Nokia, Nokia Shanghai Bell, Samsung | 22.156 pCR on Annex on mobile metaverse services |  |  |  |  |  |  |  |  |  | Revision of S1-232248. Revision of S1-232414. | Agreed |
| 39 | 7.3.2 | S1-232050 | AsiaInfo, Samsung, China Unicom, Huawei | 22.156 pCR 5.2.2 Avatar-based real-time communication | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a clause on avatar-based real-time communication for the new TS. |  | Withdrawn |
| 40 | 7.3.2 | S1-232051 | AsiaInfo, Samsung, China Unicom, Huawei, Orange | 22.156 pCR 5.2.3 Digital Asset Management | pCR | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | This pCR provides a digital asset management requirements clause for the new TS. |  | Withdrawn |
| 01 | 7.3.3 | [**S1-232073**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232073.zip) | Rapporteur (Samsung) | Presentation of Specification to TSG: TR 22.156 0.1.0 | TS or TR cover | [22.156](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4199) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [Metaverse](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000028) | Send TS 22.156 to SA 101 for information. | "TR" to be changed to "TS". "% of completion" to be added (it is 80%) | Revised to S1-232593 |
| 02 | 7.3.3 | S1-232593 | Rapporteur (Samsung) | Presentation of Specification to TSG: TR 22.156 0.1.0 | TS or TR cover | 22.156 |  |  |  | 0.1.0 | Rel-19 | Metaverse | Replaces S1-232073 | Revision of S1-232073. | Agreed |
| 03 | 7.3.3 | S1-232594 | Rapporteur (Samsung) | TS 22.156v0.1.0 Study on Localized Mobile Metaverse Services |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 02 | 7.4.1 | [**S1-232016**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232016.zip) | China Unicom | updates on the TR 22.851 consolidation and consideration | CR | [22.851](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) | 0001 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | The consolidation of TR 22.851 R19.0.0 has been provided, and the contents need to be rechecked against the entire document. |  | Revised to S1-232509 |
| 03 | 7.4.1 | S1-232509 | China Unicom | 22.851v19.1.0 updates on the TR 22.851 consolidation and consideration |  |  |  |  |  |  |  |  |  | Revision of S1-232016. | Agreed |
| 04 | 7.4.1 | [**S1-232045**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232045.zip) | CATT, China Unicom | Editorial change on security consideration | CR | [22.851](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) | 0002 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) |  |  | Noted |
| 05 | 7.4.1 | [**S1-232046**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232046.zip) | CATT, Deutsche Telekom AG | Update Network Access Control CPR in TR22.851 | CR | [22.851](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) | 0003 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) |  |  | Revised to S1-232510 |
| 06 | 7.4.1 | S1-232510 | CATT, Deutsche Telekom AG | 22.851v19.1.0 Update Network Access Control CPR in TR22.851 |  |  |  |  |  |  |  |  |  | Revision of S1-232046. | Agreed |
| 02 | 7.4.2 | [**S1-232015**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232015.zip) | China Unicom, Charter Communications, ZTE Corporation and CATT | General and charging requirements to NetShare | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0696 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000029) | General requirements are added to capture the requirements to Indirect Network Sharing. Clause 9 is updated to add the charging requirements. | Wrong WI code | [Revised to S1-232029](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1461328) |
| 03 | 7.4.2 | [**S1-232029**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232029.zip) | China Unicom, Charter Communications, ZTE Corporation and CATT | General and charging requirements to NetShare | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0696 | 1 | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000029) | General requirements are added to capture the requirements to Indirect Network Sharing. Clause 9 is updated to add the charging requirements. | Wrong WI code, Must be r1 Revision of S1-232015. | Revised to S1-232511 |
| 04 | 7.4.2 | S1-232511 | China Unicom, Charter Communications, ZTE Corporation and CATT | 22.261v19.3.0 General and charging requirements to NetShare |  |  |  |  |  |  |  |  |  | Wrong WI code, Must be r1 Revision of S1-232015. Revision of S1-232029. | Revised to S1-232515 |
| 05 | 7.4.2 | S1-232515 | China Unicom, Charter Communications, ZTE Corporation and CATT | 22.261v19.3.0 General and charging requirements to NetShare |  |  |  |  |  |  |  |  |  | Wrong WI code, Must be r1 Revision of S1-232015. Revision of S1-232029. Revision of S1-232511. | Merged in to to S1-232517 |
| 06 | 7.4.2 | [**S1-232047**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232047.zip) | CATT, China Unicom, Deutsche Telekom AG | Support Network Access control in Indirect Network Sharing | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0703 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000029) |  |  | Revised to S1-232512 |
| 07 | 7.4.2 | S1-232512 | CATT, China Unicom, Deutsche Telekom AG | 22.261v19.3.0 Support Network Access control in Indirect Network Sharing |  |  |  |  |  |  |  |  |  | Revision of S1-232047. | Merged in to S1-232517 |
| 08 | 7.4.2 | [**S1-232048**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232048.zip) | CATT, China Unicom | Extra description about security considerations in Indirect Network Sharing | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0704 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000029) |  |  | Revised to S1-232513 |
| 09 | 7.4.2 | S1-232513 | CATT, China Unicom | 22.261v19.3.0 Extra description about security considerations in Indirect Network Sharing |  |  |  |  |  |  |  |  |  | Revision of S1-232048. | Merged in to S1-232517 |
| 10 | 7.4.2 | [**S1-232124**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232124.zip) | ZTE Japan K.K., China Unicom, CATT, Cellular Technologies NCSC | Support of emergency services and mobility for INS | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0711 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [NetShare](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000029) | This CR aims to add requirements related to Indirect Network Sharing on the support of emergency services and mobility as identified in TR 22.851. |  | Revised to S1-232514 |
| 11 | 7.4.2 | S1-232514 | ZTE Japan K.K., China Unicom, CATT, Cellular Technologies NCSC | 22.261v19.3.0 Support of emergency services and mobility for INS |  |  |  |  |  |  |  |  |  | Revision of S1-232124.  Merged in 2522 | Merged in to to S1-232517 |
| 12 | 7.4.2 | S1-232517 | CATT, China Unicom | 22.261v19.3.0 Extra description about security considerations in Indirect Network Sharing |  |  |  |  |  |  |  |  |  | Revision of S1-232048. Revision of S1-232513. | Revised to S1-232522 |
| 13 | 7.4.2 | S1-232522 | CATT, China Unicom | 22.261v19.3.0 Extra description about security considerations in Indirect Network Sharing |  |  |  |  |  |  |  |  |  | Revision of S1-232048. Revision of S1-232513. Revision of S1-232517. | Agreed |
| 02 | 7.5.1 | [**S1-232249**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232249.zip) | UIC | Update of gap analysis of railway emergency alert, multi-talker control, authorisation of communication, arbitration use cases | CR | [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 0029 |  | F | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_FRMCS\_Ph5](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950007) | Update of gap analysis of some railway emergency alert use cases based on the Ad hoc Group Emergency Alert. Gap analysis of other use cases (multi-talker control, authorisation of communication, arbitration) based on the UIC FRMCS FRS FU-7120 requirements |  | Revised to S1-232503 |
| 03 | 7.5.1 | S1-232503 | UIC | 22.989v19.3.0 Update of gap analysis of railway emergency alert, multi-talker control, authorisation of communication, arbitration use cases |  |  |  |  |  |  |  |  |  | Revision of S1-232249 . | Agreed |
| 02 | 7.5.2 | [**S1-232199**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232199.zip) | UIC | Enhancement of multi-talker control | CR | [22.179](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=623) | 0077 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FRMCS\_Ph5](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000031) | - Handling of request permission to transmit priorities - Enhancement of override mechanism - Application of transmit time limitation for initial talker |  | Revised to S1-232501 |
| 03 | 7.5.2 | S1-232501 | UIC | 22.179v19.0.0 Enhancement of multi-talker control |  |  |  |  |  |  |  |  |  | Revision of S1-232199. | Agreed |
| 04 | 7.5.2 | [**S1-232225**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232225.zip) | UIC | Clarification on interconnection and migration versus interworking | CR | [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 0164 |  | F | 19.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FRMCS\_Ph5](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000031) | -Addition of definitions for: interconnection, migration and MC Service user. Interworking was the only term used in stage 1 specifications. -Creation of dedicated chapter 6.20 for interconnection/migration. Requirements of 6.17.2 mainly referring to migration are moved in 6.20. 6.17.2 is deleted. |  | Noted |
| 05 | 7.5.2 | [**S1-232234**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232234.zip) | UIC | Addition of requirements for Ad hoc Group Emergency Alert and for multiple MCX communications reception | CR | [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 0165 |  | C | 19.2.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FRMCS\_Ph5](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000031) | 1)Allow/forbid reception of multiple Ad hoc Group Emergency Alerts based on functional alias.2) Possibility of change of the default MCX UE by the MCX Service Administrator, in addition to the receiving MCX user for Private Communication.3) Modification of the criterion for definition of the Ad hoc Group by an authorized user, during the Ad hoc Group Emergency Alert |  | Revised to S1-232502 |
| 06 | 7.5.2 | S1-232502 | UIC | 22.280v19.2.0 Addition of requirements for Ad hoc Group Emergency Alert and for multiple MCX communications reception |  |  |  |  |  |  |  |  |  | Revision of S1-232234. | Agreed |
| 07 | 7.5.2 | [**S1-232251**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232251.zip) | Kyonggi University, KT | Updates on railway communication functionality | CR | [22.289](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3186) | 0008 |  | B | 17.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FRMCS\_Ph5](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000031) | We intend to introduce and provide a use case for multiple concurrent mobility services in Section 4. Specifically, we intend to add a new use case with a sophisticated location related functional requirement for smart mobility service in FRMCS. | TR wrong format, changes are not visible ( all new text must be in track changes) | Revised to S1-232267 |
| 08 | 7.5.2 | S1-232267 | Kyonggi University, KT | 22.289v17.0.0 Updates on railway communication functionality |  |  |  |  |  |  |  |  |  | TR wrong format, changes are not visible (all new text must be in track changes) Revision of S1-232251. | Noted |
| 02 | 7.6.1 | [**S1-232142**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232142.zip) | OPPO | Updating of functional consolidated requirements | CR | [22.876](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) | 0001 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [AIML\_MT\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000030) | Updating of functional consolidated requirements | Wrong WI code, wrong TRversion on the cover page | Revised to S1-232322 |
| 03 | 7.6.1 | S1-232322 | OPPO | 22.876v19.0.0 Updating of functional consolidated requirements |  |  |  |  |  |  |  |  |  | Wrong WI code, wrong TRversion on the cover page Revision of S1-232142. | Revised to S1-232361 |
| 04 | 7.6.1 | S1-232361 | OPPO | 22.876v19.0.0 Updating of functional consolidated requirements |  |  |  |  |  |  |  |  |  | Wrong WI code, wrong TRversion on the cover page Revision of S1-232142. Revision of S1-232322. | Revised to S1-232368 |
| 05 | 7.6.1 | S1-232368 | OPPO | 22.876v19.0.0 Updating of functional consolidated requirements |  |  |  |  |  |  |  |  |  | Wrong WI code, wrong TRversion on the cover page Revision of S1-232142. Revision of S1-232322. Revision of S1-232361. | Agreed |
| 06 | 7.6.1 | [**S1-232143**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232143.zip) | OPPO | Updating of KPI consolidated requirements | CR | [22.876](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) | 0002 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [AIML\_MT\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000030) | Updating of KPI consolidated requirements | Wrong WI code, wrong TRversion on the cover page | Revised to S1-232323 |
| 07 | 7.6.1 | S1-232323 | OPPO | 22.876v19.0.0 Updating of KPI consolidated requirements |  |  |  |  |  |  |  |  |  | Wrong WI code, wrong TRversion on the cover page Revision of S1-232143. | Agreed |
| 02 | 7.6.2 | [**S1-232144**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232144.zip) | OPPO | TS22.261\_Adding functional requirements | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0713 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [AIML\_MT\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000030) | Adding functional requirements in 22.261 based on the CPRs in TR22.876 |  | Revised to S1-232324 |
| 03 | 7.6.2 | S1-232324 | OPPO | 22.261v19.3.0 Adding functional requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232144. | Agreed |
| 04 | 7.6.2 | [**S1-232146**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232146.zip) | OPPO | TS22.261\_Adding KPI requirements of AIML-Ph2 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0714 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [AIML\_MT\_Ph2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000030) | Adding KPI requirements of AIML-Ph2 based on CPRs in TR22.876 |  | Revised to S1-232325 |
| 05 | 7.6.2 | S1-232325 | OPPO | 22.261v19.3.0 Adding KPI requirements of AIML-Ph2 |  |  |  |  |  |  |  |  |  | Revision of S1-232146. | Agreed |
| 02 | 7.7.1 | [**S1-232036**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232036.zip) | Nokia, Nokia Shanghai Bell, Novamint, ETRI | Updates in scope, terms and overview | CR | [22.865](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) | 0001 |  | D | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960016) |  |  | Agreed |
| 03 | 7.7.1 | [**S1-232092**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232092.zip) | Novamint, | update of clause 5.16 | CR | [22.865](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) | 0004 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960016) |  |  | Revised to S1-232531 |
| 04 | 7.7.1 | S1-232531 | Novamint, | 22.865v19.0.0 update of clause 5.16 |  |  |  |  |  |  |  |  |  | Revision of S1-232092.  More off-line discussions needed | Revised to S1-232542 |
| 05 | 7.7.1 | S1-232542 | Novamint, | 22.865v19.0.0 update of clause 5.16 |  |  |  |  |  |  |  |  | Replaces S1-232531 | Revision of S1-232092. Revision of S1-232531.  Note 2 to be deleted.  in def, "might" to be replaced by "can" | Revised to S1-232661 |
| 05r | 7.7.1 | S1-232661 | Novamint, | 22.865v19.0.0 update of clause 5.16 |  |  |  |  |  |  |  |  | Replaces S1-232542 |  | Agreed. |
| 07 | 7.7.1 | S1-232530 | Reliance Jio | 22.865v19.0.0 updates on use case on Store and Forward-MO for TR 22.865 |  |  |  |  |  |  |  |  |  | Moved from 7.7.2 Revision of S1-232062. | Revised to S1-232532 |
| 08 | 7.7.1 | S1-232532 | Reliance Jio | 22.865v19.0.0 updates on use case on Store and Forward-MO for TR 22.865 |  |  |  |  |  |  |  |  |  | Moved from 7.7.2 Revision of S1-232062. Revision of S1-232530. | Revised to S1-232540 |
| 09 | 7.7.1 | S1-232540 | Reliance Jio | 22.865v19.0.0 updates on use case on Store and Forward-MO for TR 22.865 |  |  |  |  |  |  |  |  |  | Moved from 7.7.2 Revision of S1-232062. Revision of S1-232530. Revision of S1-232532. As on photo, removing revision marks on cover page and removing changes on changes. | Agreed |
| 10 | 7.7.1 | [**S1-232037**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232037.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse, CATT, China Telecom | update of consolidation for TR 22.865 | CR | [22.865](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) | 0002 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960016) |  |  | Revised to S1-232533 |
| 11 | 7.7.1 | S1-232533 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse, CATT, China Telecom | 22.865v19.0.0 update of consolidation for TR 22.865 |  |  |  |  |  |  |  |  |  | Revision of S1-232037. | Agreed |
| 12 | 7.7.1 | [**S1-232104**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232104.zip) | LG Electronics | Updates on the TR 22.865 consolidated potential requirements | CR | [22.865](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) | 0005 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960016) | Update the CPR 6.2-2 |  | Merged into S1-232533 |
| 02 | 7.7.2 | [**S1-232038**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232038.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse, CATT, China Telecom | Discussion on normative work of 5GSat Ph3 | discussion |  |  |  |  |  |  |  |  |  | Noted |
| 03 | 7.7.2 | [**S1-232116**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232116.zip) | Huawei Technologies R&D UK | Discussion on capturing the normative requirements in TS 22.261 | discussion | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Noted |
| 04 | 7.7.2 | [**S1-232039**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232039.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse | New clause for Satellite access in 22261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0697 |  | D | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Revised to S1-232534 |
| 05 | 7.7.2 | S1-232534 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse | 22.261v19.3.0 New clause for Satellite access in 22261 |  |  |  |  |  |  |  |  |  | Revision of S1-232039. | Revised to S1-232541 |
| 06 | 7.7.2 | S1-232541 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse | 22.261v19.3.0 New clause for Satellite access in 22261 |  |  |  |  |  |  |  |  |  | Revision of S1-232039. Revision of S1-232534. | Agreed |
| 07 | 7.7.2 | [**S1-232040**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232040.zip) | NOVAMINT, Nokia, Nokia Shanghai Bell, ETRI, Sateliot, Gatehouse, CATT, China Telecom | Add Store & Forward Satellite Operation to TS 22.261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0698 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Revised to S1-232535 |
| 08 | 7.7.2 | S1-232535 | NOVAMINT, Nokia, Nokia Shanghai Bell, ETRI, Sateliot, Gatehouse, CATT, China Telecom | 22.261v19.3.0 Add Store & Forward Satellite Operation to TS 22.261 |  |  |  |  |  |  |  |  |  | Revision of S1-232040. | Merged into S1-232541 |
| 09 | 7.7.2 | [**S1-232041**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232041.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell | Add UE-Satellite-UE communication to TS 22.261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0699 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Revised to S1-232536 |
| 10 | 7.7.2 | S1-232536 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell | 22.261v19.3.0 Add UE-Satellite-UE communication to TS 22.261 |  |  |  |  |  |  |  |  |  | Revision of S1-232041. | Merged into S1-232541 |
| 11 | 7.7.2 | [**S1-232042**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232042.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse, CATT, China Telecom | Add Security and Charging aspects for Satellite in TS 22.261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0700 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Revised to S1-232537 |
| 12 | 7.7.2 | S1-232537 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, Sateliot, Gatehouse, CATT, China Telecom | 22.261v19.3.0 Add Security and Charging aspects for Satellite in TS 22.261 |  |  |  |  |  |  |  |  |  | Revision of S1-232042. | Agreed |
| 13 | 7.7.2 | [**S1-232043**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232043+.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, CATT, China Telecom | Add positioning enhancements for satellite access to TS 22.261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0701 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Revised to S1-232538 |
| 14 | 7.7.2 | S1-232538 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, CATT, China Telecom | 22.261v19.3.0 Add positioning enhancements for satellite access to TS 22.261 |  |  |  |  |  |  |  |  |  | Revision of S1-232043. | Merged into S1-232541 |
| 15 | 7.7.2 | [**S1-232044**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232044.zip) | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, CATT, China Telecom | Add other aspects for satellite access to TS 22.261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0702 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Revised to S1-232539 |
| 16 | 7.7.2 | S1-232539 | NOVAMINT, ETRI, Nokia, Nokia Shanghai Bell, CATT, China Telecom | 22.261v19.3.0 Add other aspects for satellite access to TS 22.261 |  |  |  |  |  |  |  |  |  | Revision of S1-232044. | Merged into S1-232541 |
| 17 | 7.7.2 | [**S1-232049**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232049.zip) | CATT | Description about S&F satellite operation in TS 22.261 | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0705 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Merged into S1-232535 |
| 18 | 7.7.2 | [**S1-232065**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232065.zip) | China Telecommunications | Add requirements on communication between UEs under the same satellite's coverage | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0707 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) |  |  | Merged into S1-232536 |
| 19 | 7.7.2 | [**S1-232062**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232062.zip) | Reliance Jio | updates on use case on Store and Forward-MO for TR 22.865 | CR | [22.865](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) | 0003 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [5GSAT\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000024) | Functional modifications or updates on the scenarios of Use case on Staore and Forward - MO | Moved from 7.7.2 | Moved to 7.7.1 |
| 02 | 7.8.1 | [**S1-232011**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232011.zip) | Huawei | Quality improvements to TR22.843 | CR | [22.843](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) | 0002 |  | D | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_UAV\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960017) |  |  | Revised to S1-232335 |
| 03 | 7.8.1 | S1-232335 | Huawei | 22.843v19.0.0 Quality improvements to TR22.843 |  |  |  |  |  |  |  |  |  | Revision of S1-232011. | Agreed |
| 04 | 7.8.1 | [**S1-232010**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232010.zip) | Huawei | Removal of Editor's Notes in TR 22.843 on 5GS to UTM exposure of location | CR | [22.843](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) | 0001 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_UAV\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960017) |  |  | Agreed |
| 05 | 7.8.1 | S1-232336 | Huawei | 22.843v19.0.0 Removal of Editor's Notes in TR 22.843 on 5GS to UTM exposure of location |  |  |  |  |  |  |  |  |  | Revision of S1-232010. | Withdrawn |
| 06 | 7.8.1 | [**S1-232099**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232099.zip) | Nokia, Nokia Shanghai Bell, China Mobile | Update use case 5.3 Geofencing for Visual Line-of-Sight UAV missions | CR | [22.843](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) | 0003 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_UAV\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960017) | This contribution proposes to update description and post-conditions related to use case 5.3 Geofencing for Visual Line-of-Sight UAV missions. |  | Agreed |
| 07 | 7.8.1 | [**S1-232150**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232150.zip) | China Mobile, Nokia, Nokia Shanghai Bell | update on UC 5.4 network-assisted UAV DAA | CR | [22.843](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) | 0004 |  | D | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_UAV\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960017) |  | Errors on cover page | Revised to S1-232330 |
| 08 | 7.8.1 | S1-232330 | China Mobile, Nokia, Nokia Shanghai Bell | 22.843v19.0.0 update on UC 5.4 network-assisted UAV DAA |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232150. | Agreed |
| 09 | 7.8.1 | [**S1-232152**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232152.zip) | China Mobile Com. Corporation | CR - Conclusions and Recommendations | CR | [22.843](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) | 0005 |  | D | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_UAV\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960017) |  | Errors on cover page, Wrong category | Revised to S1-232331 |
| 10 | 7.8.1 | S1-232331 | China Mobile | 22.843v19.0.0 CR - Conclusions and Recommendations |  |  |  |  |  |  |  |  |  | Errors on cover page, Wrong category Revision of S1-232152. | Revised to S1-232600 |
| 11 | 7.8.1 | S1-232600 | China Mobile | 22.843v19.0.0 CR - Conclusions and Recommendations |  |  |  |  |  |  |  |  |  | Errors on cover page, Wrong category Revision of S1-232152. Revision of S1-232331. | Agreed |
| 02 | 7.8.2 | [**S1-232102**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232102.zip) | Nokia, Nokia Shanghai Bell, China Mobile | Additional requirements for network support | CR | [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) | 0044 |  | B | 17.6.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [UAS\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000032) |  |  | Revised to S1-232326 |
| 03 | 7.8.2 | S1-232326 | Nokia, Nokia Shanghai Bell, China Mobile | 22.125v17.6.0 Additional requirements for network support |  |  |  |  |  |  |  |  |  | Revision of S1-232102. | Merged into S1-232628 |
| 04 | 7.8.2 | [**S1-232103**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232103.zip) | Nokia, Nokia Shanghai Bell, China Mobile | Additional requirements for network exposure | CR | [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) | 0045 |  | B | 17.6.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [UAS\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000032) |  |  | Revised to S1-232327 |
| 05 | 7.8.2 | S1-232327 | Nokia, Nokia Shanghai Bell, China Mobile | 22.125v17.6.0 Additional requirements for network exposure |  |  |  |  |  |  |  |  |  | Revision of S1-232103. | Revised to S1-232332 |
| 06 | 7.8.2 | S1-232332 | Nokia, Nokia Shanghai Bell, China Mobile | 22.125v17.6.0 Additional requirements for network exposure |  |  |  |  |  |  |  |  |  | Revision of S1-232103. Revision of S1-232327. | Merged into S1-232628 |
| 07 | 7.8.2 | [**S1-232153**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232153.zip) | China Mobile, Nokia, Nokia Shanghai Bell | 22125 CR - additional Requirements for Remote Identification of UAS | CR | [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) | 0046 |  | B | 17.6.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [UAS\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000032) |  | Errors on cover page | Revised to S1-232328 |
| 08 | 7.8.2 | S1-232328 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 22125 CR - additional Requirements for Remote Identification of UAS |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232153. | Revised to S1-232333 |
| 09 | 7.8.2 | S1-232333 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 22125 CR - additional Requirements for Remote Identification of UAS |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232153. Revision of S1-232328. | Revised to S1-232601 |
| 10 | 7.8.2 | S1-232601 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 22125 CR - additional Requirements for Remote Identification of UAS |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232153. Revision of S1-232328. Revision of S1-232333. | Merged into S1-232628 |
| 11 | 7.8.2 | [**S1-232154**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232154.zip) | China Mobile, Nokia, Nokia Shanghai Bell | Addition Requirements for UAV Safety | CR | [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) | 0047 |  | B | 17.6.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [UAS\_Ph3](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000032) |  | Errors on cover page | Revised to S1-232329 |
| 12 | 7.8.2 | S1-232329 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Addition Requirements for UAV Safety |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232154. | Revised to S1-232334 |
| 13 | 7.8.2 | S1-232334 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Addition Requirements for UAV Safety |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232154. Revision of S1-232329. | Revised to S1-232602 |
| 14 | 7.8.2 | S1-232602 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Addition Requirements for UAV Safety |  |  |  |  |  |  |  |  |  | Errors on cover page Revision of S1-232154. Revision of S1-232329. Revision of S1-232334. | Revised to S1-232627 |
| 15 | 7.8.2 | S1-232627 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Addition Requirements for UAV Safety |  |  |  |  |  |  |  |  | Replaces S1-232602 | changes on changes, but this is to be merged in the main CR in 2628 | Merged into S1-232628 |
| 16 | 7.8.2 | S1-232603 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Merge version UAV CRs |  |  |  |  |  |  |  |  |  |  | Revised to S1-232628 |
| 17 | 7.8.2 | S1-232628 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Merge version UAV CRs |  |  |  |  |  |  |  |  | Replaces S1-232603  This is a merge of all the CRs agreed on UAV. | Add InterDigital, Qualcomm as co-signer  Remove consequences in not approved. | Revised to S1-232630 |
| 18 | 7.8.2 | S1-232630 | China Mobile, Nokia, Nokia Shanghai Bell | 22.125v17.6.0 Merge version UAV CRs |  |  |  |  |  |  |  |  | Replaces S1-232628 | Revision of S1-232603. Revision of S1-232628. New title Additional requirements for UAS. Reason for change delete the will. Adding supporting companies. Remove consequences of not approved. | Agreed |
| 03 | 7.9.1 | [**S1-232121**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232121.zip) | Xiaomi, NEC, Qualcomm | Pseudo-CR on Study on Upper layer traffic steer, switch and split over dual 3GPP access, Clause 5.15.5 Update – FFS Removal in the existing functionality section | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Agreed |
| 04 | 7.9.1 | [**S1-232135**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232135.zip) | Xiaomi, NEC, Qualcomm | Pseudo-CR on Study on Upper layer traffic steer, switch and split over dual 3GPP access, Clause 5.16.5 Update - Existing functionality section update, including removal of FFS | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232314 |
| 05 | 7.9.1 | S1-232314 | Xiaomi, NEC, Qualcomm | Pseudo-CR on Study on Upper layer traffic steer, switch and split over dual 3GPP access, Clause 5.16.5 Update - Existing functionality section update, including removal of FFS |  |  |  |  |  |  |  |  |  | Revision of S1-232135. | Revised to S1-232369 |
| 06 | 7.9.1 | S1-232369 | Xiaomi, NEC, Qualcomm | Pseudo-CR on Study on Upper layer traffic steer, switch and split over dual 3GPP access, Clause 5.16.5 Update - Existing functionality section update, including removal of FFS |  |  |  |  |  |  |  |  |  | Revision of S1-232135. Revision of S1-232314. | Agreed |
| 07 | 7.9.1 | [**S1-232204**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232204.zip) | Huawei Technologies France | Discussion Paper: FS-DualSteer Satellite use cases identified service needs | discussion | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 08 | 7.9.1 | [**S1-232192**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232192.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_1\_dual 5G satellite access in maritime | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 09 | 7.9.1 | [**S1-232193**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232193.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_4\_Inter-PLMN scenario - TN and NTN | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 10 | 7.9.1 | [**S1-232194**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232194.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_5\_NTN-based dual 3GPP access | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 11 | 7.9.1 | [**S1-232195**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232195.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_6\_UE using Terrestrial and Satellite Access | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232356 |
| 12 | 7.9.1 | S1-232356 | Huawei | Pseudo-CR on updates clause 5\_6\_UE using Terrestrial and Satellite Access |  |  |  |  |  |  |  |  |  | Revision of S1-232195. | Revised to S1-232370 |
| 13 | 7.9.1 | S1-232370 | Huawei | Pseudo-CR on updates clause 5\_6\_UE using Terrestrial and Satellite Access |  |  |  |  |  |  |  |  |  | Revision of S1-232195. Revision of S1-232356. | Agreed |
| 14 | 7.9.1 | [**S1-232196**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232196.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_9\_dual steering through Satellite and UAV | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 15 | 7.9.1 | [**S1-232197**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232197.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_10\_NTN and TN Inter-PLMN Multi-access in a Maritime scenario | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 16 | 7.9.1 | [**S1-232198**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232198.zip) | Huawei Technologies France | Pseudo-CR on updates for clause 5\_14\_Inter-PLMN scenario - TN and multiple NTN | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 17 | 7.9.1 | [**S1-232200**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232200.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_17 Vehicle IoT devices steering via NTN and TN | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 18 | 7.9.1 | [**S1-232202**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232202.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_18\_UAV UE connecting to 3GPP TN and NTN access networks | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 19 | 7.9.1 | [**S1-232205**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232205.zip) | Huawei Technologies France | Discussion Paper: on 5G Terrestrial Network aspects in FS-DualSteer | discussion | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 20 | 7.9.1 | [**S1-232222**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232222.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_2\_interPLMN mobility-FS-DualSteer | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 21 | 7.9.1 | [**S1-232223**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232223.zip) | Huawei Technologies France | Pseudo-CR on updates clause 5\_3\_Inter-PLMN or PLMN-SNPN | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Noted |
| 22 | 7.9.1 | [**S1-232224**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232224.zip) | Huawei Technologies France | Pseudo-CR on updates for clause 5\_7\_intra-PLMN scenario for XR gaming | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232357 |
| 23 | 7.9.1 | S1-232357 | Huawei | Pseudo-CR on updates for clause 5\_7\_intra-PLMN scenario for XR gaming |  |  |  |  |  |  |  |  |  | Revision of S1-232224. | Agreed |
| 25 | 7.9.1 | [**S1-232035**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232035.zip) | THALES | Use Case on supplementary downlink data via a second 3GPP network | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232337 |
| 26 | 7.9.1 | S1-232337 | THALES | Use Case on supplementary downlink data via a second 3GPP network |  |  |  |  |  |  |  |  |  | Revision of S1-232035. | Agreed |
| 27 | 7.9.1 | [**S1-232058**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232058.zip) | NEC, Ericsson, Nokia, Nokia Shanghai Bell, Novamint, Lenovo, Qualcomm | Use Case on traffic duplication for a set of devices | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232338 |
| 28 | 7.9.1 | S1-232338 | NEC, Ericsson, Nokia, Nokia Shanghai Bell, Novamint, Lenovo, Qualcomm | Use Case on traffic duplication for a set of devices |  |  |  |  |  |  |  |  |  | Revision of S1-232058. | Noted |
| 30 | 7.9.1 | [**S1-232237**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232237.zip) | Qualcomm | FS\_DualSteer - CPR proposal | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232255 |
| 31 | 7.9.1 | S1-232255 | Qualcomm | FS\_DualSteer - CPR proposal | pCR | 22.841 |  |  |  | 1.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-232237 | Revision of S1-232237. | Revised to S1-232633 |
| 32 | 7.9.1 | S1-232633 | Qualcomm | FS\_DualSteer - CPR proposal | pCR | 22.841 |  |  |  | 1.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-232255 | Revision of S1-232237. Revision of S1-232255. | Agreed |
| 33 | 7.9.1 | [**S1-232227**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232227.zip) | Huawei Technologies France | Pseudo-CR proposal Consolidated Potential Requirements for FS-DualSteer | pCR | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-232339 |
| 34 | 7.9.1 | S1-232339 | Huawei | Pseudo-CR proposal Consolidated Potential Requirements for FS-DualSteer |  |  |  |  |  |  |  |  |  | Revision of S1-232227.  About CPR 6.1-3: several companies (including InterDigital) still object about the splitting part. They do not see the functionality brought by splitting that cannot be already done with the other functionality.  On thursday, still only 4 companies support (including Huawei, Orange, Mediatek)  Objects: 13 companies | Noted |
| 01 | 7.9.2 | [**S1-232239**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232239.zip) | Qualcomm, Lenovo, CableLabs, Xiaomi, Comcast Corporation, Verizon UK Ltd, Tencent, Thales, Charter Communications, SyncTechno Inc., InterDigital, KDDI, Nokia, Nokia-Shanghai Bell, Vivo, Lockheed Martin, Sennheiser, Viasat, KPN, LG Electronics, Apple, Novamint, Futurewei, NEC, ETRI, IRT Saint Exupery, CATT, DSIT, Ericsson | DualSteer\_Normative requirements | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0724 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Revised to S1-232257 |
| 02 | 7.9.2 | S1-232257 | Qualcomm, Lenovo, CableLabs, Xiaomi, Comcast Corporation, Verizon UK Ltd, Tencent, Thales, Charter Communications, SyncTechno Inc., InterDigital, KDDI, Nokia, Nokia-Shanghai Bell, Vivo, Lockheed Martin, Sennheiser, Viasat, KPN, LG Electronics, Apple, Novamint, Futurewei, NEC, ETRI, IRT Saint Exupery, CATT, DSIT, Ericsson | DualSteer\_Normative requirements | CR | 22.261 | 0724 | 1 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232239 | Revision of S1-232239. | Revised to S1-232288 |
| 03 | 7.9.2 | S1-232288 | Qualcomm, Lenovo, CableLabs, Xiaomi, Comcast Corporation, Verizon UK Ltd, Tencent, Thales, Charter Communications, SyncTechno Inc., InterDigital, KDDI, Nokia, Nokia-Shanghai Bell, Vivo, Lockheed Martin, Sennheiser, Viasat, KPN, LG Electronics, Apple, Novamint, Futurewei, NEC, ETRI, IRT Saint Exupery, CATT, DSIT, Ericsson | DualSteer\_Normative requirements | CR | 22.261 | 0724 | 2 | B | 19.3.0 | Rel-19 | DUMMY | Replaces S1-232257 | Revision of S1-232239. Revision of S1-232257. | Revised to S1-232371 |
| 04 | 7.9.2 | S1-232371 | Qualcomm, Lenovo, CableLabs, Xiaomi, Comcast Corporation, Verizon UK Ltd, Tencent, Thales, Charter Communications, SyncTechno Inc., InterDigital, KDDI, Nokia, Nokia-Shanghai Bell, Vivo, Lockheed Martin, Sennheiser, Viasat, KPN, LG Electronics, Apple, Novamint, Futurewei, NEC, ETRI, IRT Saint Exupery, CATT, DSIT, Ericsson | 22.261v19.3.0 DualSteer\_Normative requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232239. Revision of S1-232257. Revision of S1-232288.  Supporting this CR;  20 companies  objecting: 3 companies (including Huawei)  InterDigital: lot of time has been dedicated to this, it is not correct to say that there are still misunderstanding.  Vodafone has concerns, without objecting. They think this should be further discussed in plenary  Huawei: it is still unclear on some aspects, e.g. the difference between splitting and steering  Mediatek, Huawei, Futurewei have sustained objections.  SA Chair: enough time has been dedicated to this topic, for several meetings, several conference calls, to try to address the objections. There are implications on SA2 SA1 has to take a decision now.  SA1 chair: more time will not help.  After an exceptional break to try to solve offline the issue for a last time, it was decided to go for a Working Agreement.  3 objecting companies are maintaining their objections  Futurewei believe that there is a way to go for compromise, unfortunately this CR blocks possibility for compromise.  Huawei: no technical response from the "other side" and we believe that there is a way forward if focussed on the technical issues,  SA1 Chair: objections shall be made on technical issue, not procedural issue.  Huawei: based on explanation given in discussion paper 232204 and 23205, "splitting" is not justified in captured use cases in the TR. It has serious negative implications to the communication. Also applies to steering if multiple SDF communicate at the same time. The proposed requirement captures far more than what is justified in the TR.  Futurewei: there is potential RAN implication on the "split" which need more study and discussion  Mediatek: also, some scenarios should not be included at this point, and in particular NTN+TN creates issues.  Question from SA Chair: who will object to postpone this work until the next meeting?  Answer: Charter, ETRI, Novamint, Gsat, Lenovo, CableLabs, Apple, InterDigital, Samsung, EDF, Thales, Verizon, Nokia, BT, Sateliot, LG, KDDI, NIC, Ericsson, Synctechno, Qualcomm, KPN, TNO  SA1 Chair: a review of the status of each document one by one:    S1-232255 (pCR): supported by the same 20 companies. Objected by the same 3 objecting companies. 1 concern from Vodafone. This is further revised to 2633 to align with the CR. The same status remained for 2633 (20+1 supporting companies, 3  2595 (new version of the TR, that will include 2255): supported by the same 20 companies. Objected by the same 3 objecting companies. 1 concern from Vodafone.  2252 (cover): to be updated to show the contentious issue. Not concerned by the working agreement process.  2289 (WID): supported by the same 20 companies and 1 more. Objected by the same 3 objecting companies. 1 concern from Vodafone.  2371 (CR): supported by the same 20 companies and 2 more. Objected by the same 3 objecting companies. 1 concern from Vodafone.  SA1 Chair concluded that a Working Agreement is declared for agreeing S1-232633 (pCR), S1-232595 (new version of the TR), S1-232289 (WID) and S1-232371 (CR).  SA Chair: does any company see that this should be split into several Working Agreement?  No company was in favour of such an approach, so one single Working Agreement remains. | Agreed |
| 01 | 7.9.3 | [**S1-232252**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232252.zip) | Qualcomm | TR coversheet | TS or TR cover | [22.841](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 1.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_DualSteer](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | for approval |  | Revised to S1-232662 |
| 01r | 7.9.3 | S1-232662 | Qualcomm | TR coversheet | TS or TR cover | 22.841 |  |  |  | 1.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-232252 |  |  |
| 02 | 7.9.3 | S1-232595 | Rapporteur (Qualcomm) | TR 22.841v1.2.0 Study on Upper layer traffic steering, switching and split over dual 3GPP access |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 02 | 7.10.1 | [**S1-232236**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232236.zip) | Nokia, Nokia Shanghai Bell | Quality improvements | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0007 |  | D | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Agreed |
| 03 | 7.10.1 | [**S1-232070**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232070.zip) | Samsung | Addition of terminolgy for energy consumption as a service criteria | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0001 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | Addresses comments made off-line after SA1 102. |  | Revised to S1-232316 |
| 04 | 7.10.1 | S1-232316 | Samsung | Addition of terminolgy for energy consumption as a service criteria |  |  |  |  |  |  |  |  |  | Revision of S1-232070. | Revised to S1-232362 |
| 05 | 7.10.1 | S1-232362 | Samsung | Addition of terminolgy for energy consumption as a service criteria |  |  |  |  |  |  |  |  |  | Revision of S1-232070. Revision of S1-232316. No presentation | Revised to S1-232635 |
| 06 | 7.10.1 | S1-232635 | Samsung | Addition of terminolgy for energy consumption as a service criteria |  |  |  |  |  |  |  |  | Replaces S1-232362 | Revision of S1-232070. Revision of S1-232316. Revision of S1-232362. Subject to operator s policy, the 5G system shall support a means to define and enforce subscription policies that define a maximum energy consumption for services without QoS criteria. | Agreed |
| 07 | 7.10.1 | [**S1-232180**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232180.zip) | China Mobile | Updating existing CPR in TR 22.882 | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0002 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Revised to S1-232317 |
| 08 | 7.10.1 | S1-232317 | China Mobile | Updating existing CPR in TR 22.882 |  |  |  |  |  |  |  |  |  | Revision of S1-232180. | Revised to S1-232363 |
| 09 | 7.10.1 | S1-232363 | China Mobile | Updating existing CPR in TR 22.882 |  |  |  |  |  |  |  |  |  | Revision of S1-232180. Revision of S1-232317. | Revised to S1-232634 |
| 10 | 7.10.1 | S1-232634 | China Mobile | Updating existing CPR in TR 22.882 |  |  |  |  |  |  |  |  | Replaces S1-232363 | Revision of S1-232180. Revision of S1-232317. Revision of S1-232363. | Agreed |
| 11 | 7.10.1 | [**S1-232181**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232181.zip) | China Mobile | Updating CPR with newly agreed PRs | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0003 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Revised to S1-232260 |
| 12 | 7.10.1 | S1-232260 | China Mobile | Updating CPR with newly agreed PRs |  |  |  |  |  |  |  |  |  | Revision of S1-232181. | Revised to S1-232318 |
| 13 | 7.10.1 | S1-232318 | China Mobile | Updating CPR with newly agreed PRs |  |  |  |  |  |  |  |  |  | Revision of S1-232181. Revision of S1-232260. | Revised to S1-232364 |
| 14 | 7.10.1 | S1-232364 | China Mobile | Updating CPR with newly agreed PRs |  |  |  |  |  |  |  |  |  | Revision of S1-232181. Revision of S1-232260. Revision of S1-232318.  "to the subscriber" is to be removed.  Note 2 to be removed. | Revised to S1-232636 |
| 15 | 7.10.1 | S1-232636 | China Mobile | Updating CPR with newly agreed PRs |  |  |  |  |  |  |  |  | Replaces S1-232364 | Revision of S1-232181. Revision of S1-232260. Revision of S1-232318. Revision of S1-232364. The 5G system shall provide a mechanism to include the ratio of renewable energy as part of charging information. Subject to operator s policy and agreement with 3rd party, the 5G system shall support a mechanism for the 3rd party to provide current or predicted energy consumption information over a specific period of time. Delete CPR 6.1-7 | Agreed |
| 16 | 7.10.1 | S1-232365 | China Mobile | Updating CPR with newly agreed PRs part 2 |  |  |  |  |  |  |  |  |  |  | Revised to S1-232637 |
| 17 | 7.10.1 | S1-232637 | China Mobile | Updating CPR with newly agreed PRs part 2 |  |  |  |  |  |  |  |  | Replaces S1-232365 | Revision of S1-232365. | Agreed |
| 18 | 7.10.1 | [**S1-232233**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232233.zip) | Nokia, Nokia Shanghai Bell | Addressing EN 5.11 on pooling | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0005 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Revised to S1-232319 |
| 19 | 7.10.1 | S1-232319 | Nokia, Nokia Shanghai Bell | Addressing EN 5.11 on pooling |  |  |  |  |  |  |  |  |  | Revision of S1-232233. | Agreed |
| 20 | 7.10.1 | [**S1-232235**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232235.zip) | Nokia, Nokia Shanghai Bell | Consolidation of 5.11 PRs on pooling | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0006 |  | F | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Revised to S1-232320 |
| 21 | 7.10.1 | S1-232320 | Nokia, Nokia Shanghai Bell | Consolidation of 5.11 PRs on pooling |  |  |  |  |  |  |  |  |  | Revision of S1-232235. | Revised to S1-232366 |
| 22 | 7.10.1 | S1-232366 | Nokia, Nokia Shanghai Bell | Consolidation of 5.11 PRs on pooling |  |  |  |  |  |  |  |  |  | Revision of S1-232235. Revision of S1-232320. | Agreed |
| 23 | 7.10.1 | [**S1-232182**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232182.zip) | China Mobile | Adding conclusion in TR 22.882 | CR | [22.882](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) | 0004 |  | B | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Revised to S1-232321 |
| 24 | 7.10.1 | S1-232321 | China Mobile | Adding conclusion in TR 22.882 |  |  |  |  |  |  |  |  |  | Revision of S1-232182. | Agreed |
| 02 | 7.10.2 | [**S1-232071**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232071.zip) | Samsung, China Mobile | Introduction of Energy consumption as a service criteria | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0708 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000033) | Addresses comments made off-line after SA1 102. Adds terminology, references and requirements to TS 22.261 per the EnergyServ WID. | Wrong WICode | Revised to S1-232360 |
| 03 | 7.10.2 | S1-232360 | Samsung, China Mobile | 22.261v19.3.0 Introduction of Energy consumption as a service criteria |  |  |  |  |  |  |  |  |  | Wrong WICode Revision of S1-232071. | Revised to S1-232367 |
| 04 | 7.10.2 | S1-232367 | Samsung, China Mobile | 22.261v19.3.0 Introduction of Energy consumption as a service criteria |  |  |  |  |  |  |  |  |  | Wrong WICode Revision of S1-232071. Revision of S1-232360.  Merged in 2362 | Merged into 2632 |
| 05 | 7.10.2 | [**S1-232183**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232183.zip) | China Mobile | TS 22.261 CR on adding energy efficiency as service criteria with agreed consolidation | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0717 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000033) |  |  | Revised to S1-232624 |
| 06 | 7.10.2 | S1-232624 | China Mobile | TS 22.261 CR on adding energy efficiency as service criteria with agreed consolidation | CR | 22.261 | 0717 | 1 | B | 19.3.0 | Rel-19 | EnergyServ | Replaces S1-232183 | Revision of S1-232183. | Revised to S1-232632 |
| 07 | 7.10.2 | S1-232632 | China Mobile | TS 22.261 CR on adding energy efficiency as service criteria with agreed consolidation | CR | 22.261 | 0717 | 2 | B | 19.3.0 | Rel-19 | EnergyServ | Replaces S1-232624 | Revision of S1-232183. Revision of S1-232624. | Revised to S1-232638 |
| 08 | 7.10.2 | S1-232638 | China Mobile | TS 22.261 CR on adding energy efficiency as service criteria with agreed consolidation | CR | 22.261 | 0717 | 3 | B | 19.3.0 | Rel-19 | EnergyServ | Replaces S1-232632 | Revision of S1-232183. Revision of S1-232624. Revision of S1-232632. carbon emissions: quantity of equivalent carbon dioxide emitted (e.g. kg of CO2 equivalent). Cover page clauses affected. Editorial correction. | Agreed |
| 09 | 7.10.2 | [**S1-232184**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232184.zip) | China Mobile | TS 22.261 CR on adding energy efficiency as service criteria with new consolidation | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0718 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [EnergyServ](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=1000033) |  |  | Noted |
| 03 | 7.11 | [**S1-232088**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232088.zip) | LG Electronics Inc. | Clean up for Use Case 5.1 Online cooperative high-resolution 3D map building | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) |  |  | Revised to S1-232504 |
| 04 | 7.11 | S1-232504 | LG Electronics | Clean up for Use Case 5.1 Online cooperative high-resolution 3D map building |  |  |  |  |  |  |  |  |  | Revision of S1-232088. | Revised to S1-232518 |
| 05 | 7.11 | S1-232518 | LG Electronics | Clean up for Use Case 5.1 Online cooperative high-resolution 3D map building |  |  |  |  |  |  |  |  |  | Revision of S1-232088. Revision of S1-232504. | Agreed |
| 06 | 7.11 | [**S1-232089**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232089.zip) | LG Electronics Inc. | Clean up for Use Case 5.3 Smart Communication Support for Data Collection and Fusion Using Multimodal Sensors in Multi-Robot / Multi-Agent Scenarios | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) |  |  | Agreed |
| 07 | 7.11 | [**S1-232166**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232166.zip) | China Telecom | Pseudo-CR on adding description and potential gap on smart community | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) |  |  | Revised to S1-232505 |
| 08 | 7.11 | S1-232505 | China Telecom | Pseudo-CR on adding description and potential gap on smart community |  |  |  |  |  |  |  |  |  | Revision of S1-232166. | Revised to S1-232519 |
| 09 | 7.11 | S1-232519 | China Telecom | Pseudo-CR on adding description and potential gap on smart community |  |  |  |  |  |  |  |  |  | Revision of S1-232166. Revision of S1-232505. | Agreed |
| 10 | 7.11 | [**S1-232090**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232090.zip) | LG Electronics Inc. | Update on Use Case 5.7 MEC for Efficient Management of Geo-surface Sensing Data | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) |  |  | Revised to S1-232506 |
| 11 | 7.11 | S1-232506 | LG Electronics | Update on Use Case 5.7 MEC for Efficient Management of Geo-surface Sensing Data |  |  |  |  |  |  |  |  |  | Revision of S1-232090. | Agreed |
| 12 | 7.11 | [**S1-232105**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232105.zip) | LG Electronics | Pseudo-CR on update to clause 5.1.3 | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) | This contribution proposes to update “Challenges and potential gaps” about the use case, “5.1 Online cooperative high-resolution 3D map building” |  | Revised to S1-232507 |
| 13 | 7.11 | S1-232507 | LG Electronics | Pseudo-CR on update to clause 5.1.3 |  |  |  |  |  |  |  |  |  | Revision of S1-232105. | Revised to S1-232520 |
| 14 | 7.11 | S1-232520 | LG Electronics | Pseudo-CR on update to clause 5.1.3 |  |  |  |  |  |  |  |  |  | Revision of S1-232105. Revision of S1-232507. | Agreed |
| 16 | 7.11 | [**S1-232087**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232087.zip) | LG Electronics Inc. | (new) Mining – A group of autonomous robots and tele-operated robots working on mining actuation and delivery | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) |  |  | Revised to S1-232500 |
| 17 | 7.11 | S1-232500 | LG Electronics | (new) Mining A group of autonomous robots and tele-operated robots working on mining actuation and delivery |  |  |  |  |  |  |  |  |  | Revision of S1-232087. | Revised to S1-232508 |
| 18 | 7.11 | S1-232508 | LG Electronics | (new) Mining A group of autonomous robots and tele-operated robots working on mining actuation and delivery |  |  |  |  |  |  |  |  |  | Revision of S1-232087. Revision of S1-232500. | Revised to S1-232521 |
| 19 | 7.11 | S1-232521 | LG Electronics | (new) Mining A group of autonomous robots and tele-operated robots working on mining actuation and delivery |  |  |  |  |  |  |  |  |  | Revision of S1-232087. Revision of S1-232500. Revision of S1-232508. | Agreed |
| 21 | 7.11 | [**S1-232091**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232091.zip) | LG Electronics Inc. | (new) 6.x TACMM aspects related to robot group operations/applications | pCR | [22.916](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.4.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_SOBOT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) |  |  | Revised to S1-232516 |
| 22 | 7.11 | S1-232516 | LG Electronics | (new) 6.x TACMM aspects related to robot group operations/applications |  |  |  |  |  |  |  |  |  | Revision of S1-232091. | Agreed |
| 01 | 7.11.1 | S1-232596 | Rapporteur (LGE) | TR 22.916v0.5.0 Study on Network of Service Robots with Ambient Intelligence |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 03 | 7.12 | [**S1-232095**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232095.zip) | NOVAMINT | Overview and clean up of TR22848 | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  | Removed the EN | Revised to S1-232461 |
| 04 | 7.12 | S1-232461 | NOVAMINT | Overview and clean up of TR22848 |  |  |  |  |  |  |  |  |  | Removed the EN Revision of S1-232095. No presentation | Agreed |
| 06 | 7.12 | [**S1-232101**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232101.zip) | Cisco Systems, Intel, Novamint | Pseudo-CR on 22.848 Use Case #1: Update to remove Editor’s Notes | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) | This pCR removes the Editor’s notes from the potential new requirements in the use case on Scalable SNPN Interconnect with dynamic connections. |  | Revised to S1-232452 |
| 07 | 7.12 | S1-232452 | Cisco Systems, Intel, Novamint | Pseudo-CR on 22.848 Use Case #1: Update to remove Editor s Notes |  |  |  |  |  |  |  |  |  | Revision of S1-232101. | Revised to S1-232462 |
| 08 | 7.12 | S1-232462 | Cisco Systems, Intel, Novamint | Pseudo-CR on 22.848 Use Case #1: Update to remove Editor s Notes |  |  |  |  |  |  |  |  |  | Revision of S1-232101. Revision of S1-232452. | Revised to S1-232465 |
| 09 | 7.12 | S1-232465 | Cisco Systems, Intel, Novamint | Pseudo-CR on 22.848 Use Case #1: Update to remove Editor s Notes |  |  |  |  |  |  |  |  |  | Revision of S1-232101. Revision of S1-232452. Revision of S1-232462. | Revised to S1-232639 |
| 10 | 7.12 | S1-232639 | Cisco Systems, Intel, Novamint | Pseudo-CR on 22.848 Use Case #1: Update to remove Editor s Notes |  |  |  |  |  |  |  |  | Replaces S1-232465 | Revision of S1-232101. Revision of S1-232452. Revision of S1-232462. Send email to reflector and put in draft first. SNPN Credential Provider Revision of S1-232465. | Agreed |
| 11 | 7.12 | [**S1-232231**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232231.zip) | B-Com | Metric based routing for use case 5.3 | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) | This document proposes an update on requirements of use case 5.3 concerning the interconnection of naval SNPN networks |  | Revised to S1-232450 |
| 12 | 7.12 | S1-232450 | B-Com | Metric based routing for use case 5.3 |  |  |  |  |  |  |  |  |  | Revision of S1-232231. | Revised to S1-232463 |
| 13 | 7.12 | S1-232463 | B-Com | Metric based routing for use case 5.3 |  |  |  |  |  |  |  |  |  | Revision of S1-232231. Revision of S1-232450. | Revised to S1-232466 |
| 14 | 7.12 | S1-232466 | B-Com | Metric based routing for use case 5.3 |  |  |  |  |  |  |  |  |  | Revision of S1-232231. Revision of S1-232450. Revision of S1-232463. No presentation | Agreed |
| 15 | 7.12 | [**S1-232232**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232232.zip) | B-Com | Service continuity requirements for use case 5.4 | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) | This document proposes an update on requirements of use case 5.4 on mobility inside a group of interconnected SNPNs |  | Revised to S1-232451 |
| 16 | 7.12 | S1-232451 | B-Com | Service continuity requirements for use case 5.4 |  |  |  |  |  |  |  |  |  | Revision of S1-232232. | Revised to S1-232464 |
| 17 | 7.12 | S1-232464 | B-Com | Service continuity requirements for use case 5.4 |  |  |  |  |  |  |  |  |  | Revision of S1-232232. Revision of S1-232451. | Revised to S1-232467 |
| 18 | 7.12 | S1-232467 | B-Com | Service continuity requirements for use case 5.4 |  |  |  |  |  |  |  |  |  | Revision of S1-232232. Revision of S1-232451. Revision of S1-232464. No presentation | Agreed |
| 19 | 7.12 | [**S1-232244**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232244.zip) | Siemens AG | Resolution of Editor Notes on Identity Provider/5GS (FS\_ISN) | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) | This pCR provides resolutions to some of the Editor Notes in use case “Scalable SNPN Interconnect with dynamic connections” in clause 5.1 of TR 22.848. It also provides the reasoning for those resolutions. |  | Revised to S1-232453 |
| 20 | 7.12 | S1-232453 | Siemens AG | Resolution of Editor Notes on Identity Provider/5GS (FS\_ISN) |  |  |  |  |  |  |  |  |  | Revision of S1-232244. Merged intoS1-232465 | Noted |
| 22 | 7.12 | [**S1-232100**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232100.zip) | NOVAMINT | Use case on Interconnect between SNPNs in a ship and in a port | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  |  | Revised to S1-232454 |
| 23 | 7.12 | S1-232454 | NOVAMINT | Use case on Interconnect between SNPNs in a ship and in a port |  |  |  |  |  |  |  |  |  | Revision of S1-232100. | Revised to S1-232468 |
| 24 | 7.12 | S1-232468 | NOVAMINT | Use case on Interconnect between SNPNs in a ship and in a port |  |  |  |  |  |  |  |  |  | Revision of S1-232100. Revision of S1-232454.  For several use cases, the rapporteur mentioned two overall ongoing problems:  1. The study is about interconnect between SNPN, so there are questions about which use cases are in the scope or not of this TR.  2. Requirements do not exist in SA1 but are already implemented in other stages. Shall these requirements be considered as "new" or not?  Feedback from the group is needed on these 2 options.  This impacts 2455, 2457, 2458.  Verizon: two SNPN might be interconnected via non-3GPP networks, so this might push for not having this covered by the TR.  2468 withdrawn by the author | Withdrawn |
| 25 | 7.12 | [**S1-232118**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232118.zip) | NOVAMINT | Use case on Interconnect between SNPNs in a port with multiple terminals | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  |  | Revised to S1-232455 |
| 26 | 7.12 | S1-232455 | NOVAMINT | Use case on Interconnect between SNPNs in a port with multiple terminals |  |  |  |  |  |  |  |  |  | Revision of S1-232118. | Noted |
| 27 | 7.12 | [**S1-232173**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232173.zip) | NOVAMINT | Use case on Interconnect between Airport SNPNs | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  |  | Revised to S1-232457 |
| 28 | 7.12 | S1-232457 | NOVAMINT | Use case on Interconnect between Airport SNPNs |  |  |  |  |  |  |  |  |  | Revision of S1-232173. | Noted |
| 29 | 7.12 | [**S1-232213**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232213.zip) | NOVAMINT | Use case on Interconnect between tactical bubbles | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  |  | Revised to S1-232458 |
| 30 | 7.12 | S1-232458 | NOVAMINT | Use case on Interconnect between tactical bubbles |  |  |  |  |  |  |  |  |  | Revision of S1-232213. | Noted |
| 31 | 7.12 | [**S1-232230**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232230.zip) | B-Com | Quality of service differentiation and resource prioritization inside a group of interconnected SNPNs | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  |  | Revised to S1-232459 |
| 32 | 7.12 | S1-232459 | B-Com | Quality of service differentiation and resource prioritization inside a group of interconnected SNPNs |  |  |  |  |  |  |  |  |  | Revision of S1-232230. | Agreed |
| 34 | 7.12 | [**S1-232155**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232155.zip) | Intel, Cisco Systems, Novamint | Pseudo-CR on 22.848 Use Case #1: Consolidation of service requirements | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) | proposes a consolidated set of service requirements for the use case on Scalable SNPN Interconnect with dynamic connections |  | Revised to S1-232456 |
| 35 | 7.12 | S1-232456 | Intel, Cisco Systems, Novamint | Pseudo-CR on 22.848 Use Case #1: Consolidation of service requirements |  |  |  |  |  |  |  |  |  | Revision of S1-232155.  Verizon, Magenta: the Use case should be stabilised before a consolidation is made  Intel: this is the last meeting where use cases can be brought, so there is no more time.  Rapporteur: this timeline might have to be extended, i.e. new Use Cases might be able to able to be discussed at next meeting. | Noted |
| 36 | 7.12 | [**S1-232097**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232097.zip) | NOVAMINT | consolidated requirements for TR 22.848 | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) |  |  | Revised to S1-232460 |
| 37 | 7.12 | S1-232460 | NOVAMINT | consolidated requirements for TR 22.848 |  |  |  |  |  |  |  |  | Template for future work. | Revision of S1-232097. | Noted |
| 38 | 7.12 | [**S1-232082**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232082.zip) | Cisco Systems, Intel | Pseudo-CR on 22.848 Use Case #1: Update to remove Editor’s Notes | pCR | [22.848](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4180) |  |  |  | 0.1.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [FS\_ISN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990053) | This pCR removes the Editor’s notes from the potential new requirements in the use case on Scalable SNPN Interconnect with dynamic connections. |  | Withdrawn |
| 01 | 7.12.1 | S1-232597 | Rapporteur (NOVAMINT) | TR 22.848v0.2.0 Cover page |  |  |  |  |  |  |  |  |  | TR will not be sent for information at next SA. | Withdrawn |
| 02 | 7.12.1 | S1-232598 | Rapporteur (NOVAMINT) | TR 22.848v0.2.0 Study on Interconnect of SNPN |  |  |  |  |  |  |  |  |  | First draft by Tuesday 29th 23:00 UTC Comments till Thursday 31st 23:00 UTC Final version by Friday 1st 23:00 UTC | Agreed |
| 01 | 7.13 | [**S1-232241**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232241.zip) | Siemens AG | Discussion on smaller 5GS time sync budget | discussion | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | eCAV,TEI19 | This discussion paper provides background information on CR 0097 TS 22.104 on smaller 5GS time sync budget (contained in S1 232014). | Nokia and Ericsson to be consulted off-line. | Noted |
| 02 | 7.13 | [**S1-232014**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232014.zip) | Siemens | Smaller 5GS time sync budget | CR | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 0097 |  | C | 19.0.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | eCAV,TEI19 | Smaller 5G time sync budget of 700 ns with two (2) wireless links on the path of time synchronization messages for improved time-sensitive communication. |  | Revised to S1-232295 |
| 03 | 7.13 | S1-232295 | Siemens | Smaller 5GS time sync budget | CR | 22.104 | 0097 | 1 | C | 19.0.0 | Rel-19 | eCAV,TEI19 | Replaces S1-232014 | Revision of S1-232014. | Agreed |
| 04 | 7.13 | [**S1-232185**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232185.zip) | China Mobile | Supporting UE Mobility for XR service | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0719 |  | B | 19.3.0 | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [XRMobility](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=990052) |  |  | Revised to S1-232284 |
| 05 | 7.13 | S1-232284 | China Mobile | Supporting UE Mobility for XR service | CR | 22.261 | 0719 | 1 | B | 19.3.0 | Rel-19 | XRMobility | Replaces S1-232185 | Revision of S1-232185. | Revised to S1-232625 |
| 06 | 7.13 | S1-232625 | China Mobile | Supporting UE Mobility for XR service | CR | 22.261 | 0719 | 2 | B | 19.3.0 | Rel-19 | XRMobility | Replaces S1-232284 | Revision of S1-232185. Revision of S1-232284. | Revised to S1-232667 |
| 06r | 7.13 | S1-232667 | China Mobile | Supporting UE Mobility for XR service | CR | 22.261 | 0719 | 3 | B | 19.3.0 | Rel-19 | XRMobility | Replaces S1-232625 |  | Agreed |
| 01 | 9 | [**S1-232081**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232081.zip) | Samsung | On concluding release 19 | discussion |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Discussion and proposal on concluding release 19.  SA1#103 is the last meeting where CPRs can be considered.  Also, a NOTE shall be added to the conclusion at SA1#104 to state: "This TR has resulted in normative work. The normative work takes precedence over this TR. Consequently, this TR will not be revised to align it with the normative work." | On slide 3, left most text, it should be TR, TR, TS (and not TR, TR, TR).  Nokia, Chair: it has to be clear that a TR is just a tool, and it has to be disregarded after the TS is completed, in particular the ones in the 800 series.  Ericsson support the added Note. Indeed, some groups might be confused in other groups or even outside of 3GPP.  Only the last slide to be kept. | Revised to S1-232254 |
| 02 | 9 | S1-232254 | Samsung | On concluding release 19 | discussion |  |  |  |  |  | Rel-19 |  | Replaces S1-232081 | Revision of S1-232081. | Revised to S1-232666 |
| 02r | 9 | S1-232666 | Samsung | On concluding release 19 | discussion |  |  |  |  |  | Rel-19 |  | Replaces S1-232254 | More time is needed to find a suitable wording. The chair really acknowledge Samsung for all the efforts made in trying to progress the issue, and encourages future work on this topic. | Noted. |
| 03 | 9 | [**S1-232242**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_103_Gothenburg/Docs/S1-232242.zip) | Qualcomm | Discussion on Requirements terminology | other |  |  |  |  |  |  |  | Shall SA1 use  A) 5GS shall [support 5G]”  B) 5GS shall be able to [support 5G]”  or continue to use both? | Samsung reminded "it shall be possible", which was changed to "the 5G system shall". This is better but further clarifications can be made.  KPN, Nokia: they mean different things: A is mandatory, B is that the mechanism has to be supported, which is different.  MCC: 3GPP is not a regulator. 3GPP has no power e.g. to fine an operator if not deploying a given feature. 3GPP is just defining technical specifications. So is there really a difference in A and B, from a 3GPP perspective?  DT: support MCC.  Chair: the main point is if Stage 2 and Stage 3 have to be defined, and they answer is generally "yes" whatever word SA1 uses. The "clients" of SA1 are most of the other 3GPP groups, and they should not be confused by the world we use.  Qualcomm's proposal to be revised to fulfil this aim. | Revised to S1-232253 |
| 04 | 9 | S1-232253 | Qualcomm | Discussion on Requirements terminology | other |  |  |  |  |  |  |  | Replaces S1-232242 | Revision of S1-232242. | Noted. |
| 01 | 10.1 | S1-232551 | Session Chair | Sensing drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 02 | 10.1 | S1-232552 | Session Chair | Ambient IoT drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main, except for 2347 and 2344 | Agreed |
| 03 | 10.1 | S1-232553 | Session Chair | Metaverse drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 04 | 10.1 | S1-232554 | Session Chair | FRMCS\_Ph5 drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 05 | 10.1 | S1-232555 | Session Chair | NetShare + SOBOT drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 06 | 10.1 | S1-232556 | Session Chair | DualSteer + UAV drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main.  All CRs agreed in drafting will be combined in a big CR. | Agreed |
| 07 | 10.1 | S1-232557 | Session Chair | Sat5G drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 08 | 10.1 | S1-232558 | Session Chair | EnergyServ + AIML\_Ph2 drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 09 | 10.1 | S1-232559 | Session Chair | ISN drafting report |  |  |  |  |  |  |  |  |  | Agreed, so all documents agreed in draft session are agreed in SA1 main. | Agreed |
| 01 | 10.2 | S1-232560 | Deutsche Telekom | FS\_Sensing Status report |  |  |  |  |  |  |  |  |  | 100% complete | Noted |
| 02 | 10.2 | S1-232561 | Deutsche Telekom | Sensing Status report |  |  |  |  |  |  |  |  |  | 80%, TS for info | Noted |
| 03 | 10.2 | S1-232562 | OPPO | FS\_AmbientIoT Status report |  |  |  |  |  |  |  |  |  | 95% complete, TR for approval | Noted |
| 04 | 10.2 | S1-232563 | OPPO | AmbientIoT Status report |  |  |  |  |  |  |  |  |  | 80%, TS for info | Noted |
| 05 | 10.2 | S1-232564 | Samsung | FS\_Metaverse Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 06 | 10.2 | S1-232565 | Samsung | Metaverse Status report |  |  |  |  |  |  |  |  |  | 80% | Noted |
| 07 | 10.2 | S1-232566 | China Unicom | FS\_NetShare Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 08 | 10.2 | S1-232567 | China Unicom | NetShare Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 09 | 10.2 | S1-232568 | UIC | FS\_FRMCS\_Ph5 Status report |  |  |  |  |  |  |  |  |  | 90% | Noted |
| 10 | 10.2 | S1-232569 | UIC | FRMCS\_Ph5 Status report |  |  |  |  |  |  |  |  |  | 50% | Noted |
| 11 | 10.2 | S1-232570 | OPPO | FS\_AIML\_Ph2 Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 12 | 10.2 | S1-232571 | OPPO | AIML\_Ph2 Status report |  |  |  |  |  |  |  |  |  | 80%, TS for info | Noted |
| 13 | 10.2 | S1-232572 | Novamint | FS\_ 5GSAT\_Ph3 Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 14 | 10.2 | S1-232573 | Novamint | 5GSAT\_Ph3 Status report |  |  |  |  |  |  |  |  |  | 95% | Noted |
| 15 | 10.2 | S1-232574 | China Mobile | FS\_UAV\_Ph3 Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 16 | 10.2 | S1-232575 | China Mobile | UAV\_Ph3 Status report |  |  |  |  |  |  |  |  |  | 80% | Noted |
| 17 | 10.2 | S1-232576 | Qualcomm | FS\_DualSteer Status report |  |  |  |  |  |  |  |  |  | 95% | Noted |
| 18 | 10.2 | S1-232577 | Qualcomm | DualSteer Status report |  |  |  |  |  |  |  |  |  | 80% | Noted |
| 19 | 10.2 | S1-232578 | Novamint | FS\_ISN Status report |  |  |  |  |  |  |  |  |  | 60% | Noted |
| 19r | 10.2 | S1-232668 | China Mobile | FS\_EnergieServ Status report |  |  |  |  |  |  |  |  | Replaces S1-232578 |  | Agreed. |
| 20 | 10.2 | S1-232579 | China Mobile | EnergieServ Status report |  |  |  |  |  |  |  |  |  | 50% | Noted |
| 21 | 10.2 | S1-232580 | LGE | FS\_SOBOT Status report |  |  |  |  |  |  |  |  |  | 90% | Noted |
| 22 | 10.2 | S1-232581 | Novamint | FS\_ISN Status report |  |  |  |  |  |  |  |  |  | used 2578 by mistake | withdrawn |
| 23 | 10.2 | S1-232582 | China Mobile | Mini-WID XRMobility Status report |  |  |  |  |  |  |  |  |  | 95% | Noted |
| 24 | 10.2 | S1-232583 | China Telecom | Mini-WID FMC\_Issues Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 25 | 10.2 | S1-232584 | Intel | Mini-WID SISN Status report |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 26 | 10.2 | S1-232585 | China Telecom | Mini-WID EdgeOpNeeds Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 27 | 10.2 | S1-232586 | China Mobile | Mini-WID eCAT&CRS Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
|  | 99 | S1-232296 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232297 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232298 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232299 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232404 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232479 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232480 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232481 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232482 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232483 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232484 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232485 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232486 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232487 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232488 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232489 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232490 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232491 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232492 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232493 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232494 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232495 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232496 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232497 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232498 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232499 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232523 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232524 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232525 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232526 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232527 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232528 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232529 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232543 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232544 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232545 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232546 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232547 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232548 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-232549 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |