**3GPP TSG-SA WG1 Meeting #101**

**Athens, Greece, 20 – 24 February 2023**

# tdoc list SA1#101 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 | S1-230000 | SA WG1 Chair | 1st Draft Agenda for SA1#101 | agenda |  |  |  |  |  |  |  |  |  | Revised to S1-230001 |
| 02 | 1.1 | S1-230001 | SA WG1 Chair | 2nd Draft Agenda for SA1#101 | agenda |  |  |  |  |  |  |  |  | Revision of S1-230000. | Revised to S1-230002 |
| 03 | 1.1 | S1-230002 | SA WG1 Chair | Agenda for SA1#101 with tdoc allocation | agenda |  |  |  |  |  |  |  |  | Revision of S1-230000. Revision of S1-230001.  This is the last meeting where new use cases are introduced. | Approved |
| 02 | 1.2 | [**S1-230004**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230004.zip) | ETSI MCC | Draft minutes of SA1#100 | report |  |  |  |  |  |  |  |  |  | Revised to S1-230005 |
| 03 | 1.2 | S1-230005 | ETSI MCC | Minutes of SA1#100 | report |  |  |  |  |  |  |  |  | Revision of S1-230004. | Approved |
| 01 | 2 | S1-230006 | SA WG1 Chair | SA1-related topics at SA#98e | report |  |  |  |  |  |  |  |  |  | Noted |
| 02 | 2 | [**S1-230009**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230009.zip) | SA WG1 Chair | Planning Stage1 Rel-19 | other |  |  |  |  |  |  |  | The chair focussed on the Rel-19 timeline, in particular for SA1. | The Rel-19 timeline is approved by SA1, i.e. 80% ready by September (i.e. August meeting for SA1) and 100% ready by December.  Nokia has concern with consolidation: some time should be considered for this process. | Agreed |
| 03 | 2 | [**S1-230003**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230003.zip) | ETSI MCC | Extract of the 3GPP Work Plan for SA1#101 | Work Plan |  |  |  |  |  |  |  |  |  | Noted |
| 04 | 2 | [**S1-230007**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230007.zip) | ETSI MCC | MCC info on CR Rules | other |  |  |  |  |  |  |  |  | Document to be considered off-line. | Noted |
| 05 | 2 | [**S1-230008**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230008.zip) | ETSI MCC | MCC info on WID names | other |  |  |  |  |  |  |  |  | Document to be considered off-line. | Noted |
| 02 | 3 | [**S1-230035**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230035.zip) | C1-227136 | Network selection for specific consumer type mobiles | LS in |  |  |  |  |  |  |  | TO:  CT1 request SA1 to consider if any action on SA1’s part is needed | See proposed answer in 179 | Replied into 0739 |
| 03 | 3 | [**S1-230179**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230179.zip) | OPPO | [Draft] Reply LS on Network selection for specific consumer type mobile | LS out |  |  |  |  |  |  |  | SA1 thanks CT1 for forwarding the LS from GCF-CAG and would like to provide SA1’s views and answers to the questions raised by GCF-CAG.  SA1 would like to confirm there is no requirement of not mandating the implementation of Manual Network selection mode for any specific type, categories or characteristics of mobile devices and would not like to make exceptions for specific or market consumables. | There is a general support for this LS (e.g. KPN, Huawei, Telefonica, etc).  A reference can be added to 22.011.  It is suggested to write the text in a positive way.  The text on exceptions is to be deleted. | Revised to S1-230323 |
| 04 | 3 | S1-230323 | OPPO | [Draft] Reply LS on Network selection for specific consumer type mobile | LS out |  |  |  |  |  |  |  | Replaces S1-230179 | Revision of S1-230179. | Revised to S1-230739 |
| 05 | 3 | S1-230739 | OPPO | [Draft] Reply LS on Network selection for specific consumer type mobile | LS out |  |  |  |  |  |  |  | Replaces S1-230323 | Revision of S1-230179. Revision of S1-230323. | Agreed |
| 07 | 3 | [**S1-230040**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230040.zip) | S2-2211410 | LS on service requirement for emergency service support over ProSe relay | LS in |  |  |  |  |  |  |  | TO:  SA2 ask SA1 to confirm that a Relay UE can prioritize its own emergency access and stop relaying the Remote UE’s emergency service if such need arises. SA2 would like to clarify that the scope of the above agreement is Layer-3 only in Rel-18 study. | Proposed answer in 0031. | Replied into 0740 |
| 08 | 3 | [**S1-230031**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230031.zip) | vivo | Relay LS on service requirement for emergency service support over ProSe relay | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Proposed answer to Q4:  Q4: While a Relay UE is providing emergency connectivity services support for a Remote UE, if the Relay UE needs to make emergency access of its own, what if any requirements for the Relay UE to continue to provide emergency access to the Remote UE? SA2 assumes that a Relay UE may provide emergency service access to only one Remote UE at any time.  SA1 response to Q4:  There are no service requirements on relative priority between concurrent emergency sessions. |  | Revised to S1-230328 |
| 09 | 3 | S1-230328 | vivo | Relay LS on service requirement for emergency service support over ProSe relay | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-230031 | Revision of S1-230031.  Remove square brackets. | Revised to S1-230740 |
| 10 | 3 | S1-230740 | vivo | Relay LS on service requirement for emergency service support over ProSe relay | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-230328 | Revision of S1-230031. Revision of S1-230328. | Agreed |
| 12 | 3 | [**S1-230044**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230044.zip) | S2-2301578 | LS about KPIs for AI/ML model transfer in 5GS | LS in |  |  |  |  |  |  |  | TO:  SA2 asks SA1 to review the KPIs in clause 7.10 of TS 22.261 and provide feedback to a series of questions. | See proposed answers in 0109 and 173. | Replied in 0324 |
| 13 | 3 | [**S1-230109**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230109.zip) | Qualcomm | Draft reply LS on AI-ML KPIs | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Following answers are proposed:  Q1: Could SA1 check whether the 2 ms Max allowed DL end-to-end latency in Table 7.10-1 of TS 22.261 for Split AI/ML image recognition is really necessary KPI value for 5GC? If not, SA2 kindly asks SA1 to revise this KPI.  [SA1 answer]: Assuming SA2 is referring to the Max allowed UL end-to-end latency in Table 7.10-1 of TS 22.261 (see below), SA1 agreed to revise the KPI value, as per the CR in 0110.  Q2: Could SA1 clarify if it is really necessary to update the model in 1 sec?  [SA1 answer]: 1sec is confirmed to be a suitable requirement.  Q3: SA2 would like to ask if any suggested PDB value from SA1? For example, Does PDB = 10ms for AI/ML inference between UE and Application Function and PDB = 100ms for AI/ML model downloading/Federated learning can fulfil the SA1 requirement or not?  [SA1 answer]: the indicated PDB values are reasonable.  Q4: Any other feedback SA1 would like to provide?  [SA1 answer]: no further feedback. | See Oppo's answer too in 173/175 | Revised to S1-230324 |
| 14 | 3 | S1-230324 | Qualcomm | Draft reply LS on AI-ML KPIs | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-230109 | Revision of S1-230109. | Agreed |
| 15 | 3 | [**S1-230110**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230110.zip) | Qualcomm | CR to clarify AI-ML KPIs | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0675 |  | F | 18.8.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**AIML\_MT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920030) |  | Why TEI-18? | Revised to S1-230741 |
| 16 | 3 | S1-230741 | Qualcomm | CR to clarify AI-ML KPIs | CR | 22.261 | 0675 | 1 | F | 18.8.0 | Rel-18 | **AIML\_MT** | Replaces S1-230110 | Why TEI-18? Revision of S1-230110. | Agreed |
| 17 | 3 | [**S1-230173**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230173.zip) | OPPO | [Draft] Reply LS on KPIs for AIML model transfer in 5GS | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | [Draft] Reply LS on KPIs for AIML model transfer in 5GS |  | Noted |
| 18 | 3 | [**S1-230175**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230175.zip) | OPPO | Discussion on KPI value of R18 AIML Model Transfer (AMMT) | discussion | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | This document analyse the question provided in S2-2300559 and provides the proposal answer to each question.  Proposal-1: change the value of “intermediate data uploading latency” from 2ms to 10ms, which aligns the value defined for the similar service motion-to-photon, remote-driving, remote-controlled robotics  Proposal-2: confirm the 1 second for model downloading is a minimum latency to be fulfilled. Also mention the real time service needs to download a model in a range of 1~3 seconds in the LS reply.  Proposal-3: Confirm the suggested value PDB=100ms for AIML model downloading is fine to SA1, while the PDB for AIML inference should be further reduced to 4ms suggested by SA1. Meanwhile, SA1 would like to notify SA2 though the expected PDB for AI inference is 4ms, the payload size (intermediate data) is small such as 0.27Mbyte only.  Proposal-4: answer in the LS reply, that given in the special usage of AIML traffic (for example, the model training data is not normally consumed by the user, a capability needs to be distinguished so that, depending on the users' agreement with their operator, the user is not charged for such model training data transfer usage), SA1 considers different QoS flows with their respective dedicated 5QIs for AIML traffic (inference, model downloading, federated learning) will not only help a good QoS performance but also to distinguish the traffic for operator’s better policy and charging control. | Overall, Qualcomm and Oppo's proposed answers are not so far, and can be combined.  Talks are encouraged offline.  Qualcomm's one to be used as a basis. | Noted |
| 20 | 3 | [**S1-230048**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230048.zip) | S6-230288 | Ad hoc group | LS in |  |  |  |  |  |  |  | TO:  SA6 asks SA1 to provide answers to a series of questions on the use of ad hoc groups. | For the Police of the Netherlands, an emergency alert is something sent to a group, it is not a trigger. | Replied into 0780 |
| 21 | 3 | S1-230292 | Union Inter. Chemins de Fer | Draft reply LS on ad-hoc group | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**MC\_AHGC**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=980051) | UIC proposes SA1 to answer by the following to SA6:  Question 1: Whether an Ad hoc group communication shall also be tied to that Ad hoc group (used for an emergency alert)?  Answer 1: Yes,  Question 2: Whether an Ad hoc group communication can be started on that Ad hoc group (used for an emergency alert)?  Answer 2: Yes,  Question 3: Whether the Ad hoc group is deleted (and the alert state is cancelled) when the Ad hoc group communication is terminated? Or is there a need to extend the lifetime of an Ad hoc group when the Ad hoc group communication is terminated if an Ad hoc group emergency alert is still active for the same Ad hoc group?  Answer 3:  The termination of the Ad hoc group emergency communication does not cancel the Ad hoc group emergency alert.  Question 4: Whether the Ad hoc group is deleted (and the Ad hoc group communication is terminated) when the alert state is cancelled? Or is there a need to extend the lifetime of an Ad hoc group when the alert state is cancelled because the Ad hoc group communication remains up?  Answer 4: The cancellation of the Ad hoc group emergency alert does not terminate the Ad hoc group emergency communication. | The CR is to be revised in 322. | Revised to S1-230325 |
| 22 | 3 | S1-230325 | Union Inter. Chemins de Fer | Draft reply LS on ad-hoc group | LS out |  |  |  |  |  | Rel-18 | MC\_AHGC | Replaces S1-230292 | Revision of S1-230292. | Revised to S1-230749 |
| 23 | 3 | S1-230749 | Union Inter. Chemins de Fer | Draft reply LS to SA6 on ad-hoc group | LS out |  |  |  |  |  | Rel-18 | **MC\_AHGC** | Replaces S1-230325 | dates of next meeting wrong, revisions, two CRs can be added | Revised to S1-230780 |
| 24 | 3 | S1-230780 | Union Inter. Chemins de Fer | Draft reply LS to SA6 on ad-hoc group | LS out |  |  |  |  |  | Rel-18 | **MC\_AHGC** | Replaces S1-230749 | Revision of S1-230292. Revision of S1-230325. Revision of S1-230749. No track changes and attachments both CRs, Next meetings | Agreed |
| 25 | 3 | S1-230322 | UIC | Clarification on ad-hoc group | CR | 22.280 | 158 |  |  |  |  |  |  |  | Revised to S1-230750 |
| 26 | 3 | S1-230750 | UIC | Clarification on ad-hoc group | CR | 22.280 | 158 | 1 |  |  |  |  | Replaces S1-230322 | Revision of S1-230322. | Agreed |
| 27 | 3 | S1-230686 | UIC | ad-hoc group communication | CR | 22.280 | 0159 |  |  |  | rel-19 | **AHGC** |  |  | Revised to S1-230751 |
| 28 | 3 | S1-230751 | UIC | ad-hoc group communication | CR | 22.280 | 0159 | 1 |  |  | rel-19 | **AHGC** | Replaces S1-230686 | Mirror of the previous one | Agreed |
| 30 | 3 | [**S1-230045**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230045.zip) | S2-2301827 | LS on PS Data Off for IMS Data Channel service | LS in |  |  |  |  |  |  |  | TO:  SA2 kindly asks SA1 to investigate whether IMS data channel should be considered as a feature to be exempted when PS Data Off is activated and reply back to SA2 with their decision. | See 0075 as answer and related WID and CR in 090 and 074 | Replied into 590 |
| 31 | 3 | [**S1-230075**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230075.zip) | Xiaomi, China Mobile | Reply LS to SA2 on PS Data Off for IMS Data Channel Service | LS out |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | This is a Reply LS on PS Data Off for IMS Data Channel Service for SA2 LS S2-2301827. | Nokia wondered if there are not already requirements to support IMS data channel, and it was pointed out that data channel is not a service by itself, it is to support other services and applications. Samsung clarified that this is initiated by SA4.  At least, these points should be clarified.  Telefonica support the CR and the WID. | Revised to S1-230590 |
| 32 | 3 | S1-230590 | Xiaomi, China Mobile | Reply LS to SA2 on PS Data Off for IMS Data Channel Service | LS out |  |  |  |  |  | Rel-19 |  | Replaces S1-230075 | Revision of S1-230075. | Agreed |
| 33 | 3 | [**S1-230090**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230090.zip) | China Mobile Com. Corporation | New WID on PS Data Off for IMS Data Channel Service | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | Moved from 4 | Revised to S1-230482 |
| 34 | 3 | S1-230482 | China Mobile Com. Corporation | New WID on PS Data Off for IMS Data Channel Service | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230090  Supporting companies changed. | Moved from 4 Revision of S1-230090. | Agreed |
| 35 | 3 | [**S1-230074**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230074.zip) | Xiaomi, China Mobile, Deutsche Telekom, Qualcomm, KPN | PS Data Off for IMS Data Channel Service | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0348 |  | B | 18.4.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**TEI19**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=980130) | Define IMS Data Channel as part of the 3GPP PS Data Off Exempt Services | Moved from 4 | Revised to S1-230736 |
| 36 | 3 | S1-230736 | Xiaomi, China Mobile, Deutsche Telekom, Qualcomm, KPN | PS Data Off for IMS Data Channel Service | CR | 22.011 | 0348 | 1 | B | 18.4.0 | Rel-19 | **TEI19** | Replaces S1-230074 | Moved from 4 Revision of S1-230074.  Cover page, note numberring issues. | Revised to S1-230745 |
| 37 | 3 | S1-230745 | Xiaomi, China Mobile, Deutsche Telekom, Qualcomm, KPN | PS Data Off for IMS Data Channel Service | CR | 22.011 | 0348 | 2 | B | 18.4.0 | Rel-19 | **TEI19** | Replaces S1-230736 | Moved from 4 Revision of S1-230074. Revision of S1-230736. | Agreed |
| 39 | 3 | [**S1-230108**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230108.zip) | S3-222970 | LS on SNAAPP requirements clarifications | LS in |  |  |  |  |  |  |  |  | Postponed from SA1#100 | Replied into 0591 |
| 40 | 3 | [**S1-230047**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230047.zip) | S6-223488 | LS reply on SNAAPP requirements clarifications | LS in |  |  |  |  |  |  |  | TO: |  | Replied into 0591 |
| 41 | 3 | [**S1-230118**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230118.zip) | NTT DOCOMO | [DRAFT] Reply LS on SNAAPP requirements clarifications | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SNA**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890024) | [Revision of S1-223541](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393867) |  | Revised to S1-230329 |
| 42 | 3 | S1-230329 | NTT DOCOMO | [DRAFT] Reply LS on SNAAPP requirements clarifications | LS out |  |  |  |  |  | Rel-18 | SNA | Replaces S1-230118 | Revision of S1-230118. | Revised to S1-230625 |
| 43 | 3 | S1-230625 | NTT DOCOMO | [DRAFT] Reply LS on SNAAPP requirements clarifications | LS out |  |  |  |  |  | Rel-18 | **SNA** | Replaces S1-230329 | Revision of S1-230118. Revision of S1-230329.  Remove last sentence in "action for SA3" | Revised to S1-230591 |
| 44 | 3 | S1-230591 | NTT DOCOMO | [DRAFT] Reply LS on SNAAPP requirements clarifications | LS out |  |  |  |  |  | Rel-18 | **SNA** | Replaces S1-230625 | Revision of S1-230118. Revision of S1-230329. Revision of S1-230625. Take DRAFT, Accept all changes and action SA3 is ACTION: SA1 kindly asks SA3 to take the answers above into account. | Agreed |
| 46 | 3 | [**S1-230051**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230051.zip) | SP-220985 | Reply LS on Facilitating roaming adoption across 3GPP NPN deployments | LS in |  |  |  |  |  |  |  | TO: | Postponed from SA1#100 | Noted |
| 48 | 3 | [**S1-230049**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230049.zip) | SG13-LS39 | LS on initiation of new work item Y.CCO-req: ""Requirements of orchestration supporting confidential computing for network slices in IMT-2020 networks and beyond"" | LS in |  |  |  |  |  |  |  | TO: |  | Noted |
| 49 | 3 | [**S1-230050**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230050.zip) | sp17-sg11-oLS-00044 | LS on proposed new draft Recommendation ""Requirements and framework of disaster mitigation and personnel rescue for sudden natural disasters in network"" | LS in |  |  |  |  |  |  |  | TO: |  | Noted |
| 50 | 3 | [**S1-230036**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230036.zip) | C1-227157 | Reply LS on the progress and open issues for NPN enhancements in Rel-18 | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 51 | 3 | [**S1-230037**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230037.zip) | R2-2212997 | Reply LS on SENSE feature | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 52 | 3 | [**S1-230038**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230038.zip) | R2-2213320 | Reply LS on GNSS integrity requirement provisioning | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 53 | 3 | [**S1-230039**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230039.zip) | S2-2211199 | LS Response on Latency impact for NTN verified UE location | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 54 | 3 | [**S1-230041**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230041.zip) | S2-2211411 | Reply LS on QoS Sustainability analytics and V2X service adaptations | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 55 | 3 | [**S1-230042**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230042.zip) | S2-2301362 | Reply to LS on PIN Management | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 56 | 3 | [**S1-230043**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230043.zip) | S2-2301441 | Regarding issues related to SNPN selection for Localized services | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 57 | 3 | [**S1-230046**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230046.zip) | S3-224175 | Reply LS on Progress and open issues for NPN enhancements in Rel-18 | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 58 | 3 | [**S1-230052**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230052.zip) | SP-221320 | Reply LS on QoS Sustainability analytics and V2X service adaptations | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 59 | 3 | [**S1-230053**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230053.zip) | SP-221322 | Reply LS on Use Cases and requirements for industrial factory applications | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 60 | 3 | [**S1-230054**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230054.zip) | SP-221331 | LS to GSMA 5GMRR on finalisation of Study on Roaming Value-Added Services | LS in |  |  |  |  |  |  |  | CC: |  | Noted |
| 61 | 3 | S1-230315 | Verizon Switzerland AG | Distinguished Engineer | CR | [**22.105**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=606) | 0059 |  | C | 17..0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_IIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850012) | A CR targeting improvement in TS 22.104 corresponding to the LS from 5G-ACIA on Edge computing to SA and SA1 |  | Withdrawn |
| 62 | 3 | [**S1-230106**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230106.zip) | SP-220985/S1-223277 | (postponed) Reply LS on Facilitating roaming adoption across 3GPP NPN deployments | LS in |  |  |  |  |  |  |  |  |  | Withdrawn |
| 63 | 3 | [**S1-230107**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230107.zip) | S3-222970/S1-223272 | (postponed) LS on SNAAPP requirements clarifications | LS in |  |  |  |  |  |  |  |  |  | Withdrawn |
| 02 | 4 | [**S1-230184**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230184.zip) | China Mobile | Revised SID on Energy Efficiency as service criteria | SID revised |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  | TR number missing, other | Revised to S1-230332 |
| 03 | 4 | S1-230332 | China Mobile | Revised SID on Energy Efficiency as service criteria | SID revised |  |  |  |  |  | Rel-19 | FS\_EnergyServ | Replaces S1-230184 | Revision of S1-230184. | Revised to S1-230627 |
| 04 | 4 | S1-230627 | China Mobile | Revised SID on Energy Efficiency as service criteria | SID revised |  |  |  |  |  | Rel-19 | **FS\_EnergyServ** | Replaces S1-230332 | Revision of S1-230184. Revision of S1-230332. ME impacts NO and only correct changes. | Agreed |
| 05 | 4 | [**S1-230306**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230306.zip) | NOVAMINT, b-com, EDF, Intel, Cisco | Study on Interconnect of SNPN | SID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | The objectives of this study are:  - To study use cases on interconnect between 3GPP SNPNs and interconnect of SNPN with entities that authenticate and authorize UE access to the SNPNs.  - To identify potential new service requirements and enhancements for 5G system to enable interconnect between SNPNs.  - To identify potential new service requirements to address scalability and security aspects inherent to interconnect of SNPNs with entities that authenticate and authorize UE access to the SNPNs. | Interdigital: Is it all network-based security or does it involve the UE?  Several other questions for clarifications.  Nokia: this is quite late for Rel-19 SID, and propose a Rel-20 SID instead.  Orange: lot of off-line work done by Novamint. This might however be an implementation issue.  Sprint: concerned about the objectives, in particular on the interconnections of SNPN. The case of MNO might also have to be distinguished.  NCSC: is "3GPP SNPN" the same as "SNPN"? The note in the justification is ambiguous in particular wrt "administrations ".  Xiaomi: a CR plus miniWID can also be considered.  Futurewei: they support the overall idea, but have some concerns about the security. They are in favour of the study, not a miniWID.  Novamint:lot of comments. Operators do not want to address roaming and interconnection. About the study: this is provided because the normative WID approach was not acceptable at previous meeting.  Orange; the SA3 colleagues are not comfortable in doing this work in 3GPP.  Qualcomm: let's focus on what can be done in Rel-19.  Cisco: SA3 need requirements from SA1, this is why it was controversial there.  Chair: SA asked SA1 to consider this for Rel-19. To fulfil this plan, this needs SA1 to agree on some principles at this meeting. | Revised to S1-230347 |
| 06 | 4 | S1-230347 | NOVAMINT, b-com, EDF, Intel, Cisco | Study on Interconnect of SNPN | SID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230306 | Revision of S1-230306.  Ericsson:  Orange not ready to accept this at this point  Several concerns about the timing when this is proposed  SA5 charging chair: Charging and billing is also covered in SA5, not clear why this is needed in SA1  Ericsson: concerns with the process (new use cases introduced for a purpose, a clear context is needed)  Off-line discussions needed | Revised to S1-230628 |
| 07 | 4 | S1-230628 | NOVAMINT, b-com, EDF, Intel, Cisco | Study on Interconnect of SNPN | SID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230347 | Revision of S1-230306. Revision of S1-230347.  Nokia and Orange think this should be for Rel-20.  It is wondered why there are two rapporteurs.  Orange ask the note to be reworded. | Revised to S1-230687 |
| 08 | 4 | S1-230687 | NOVAMINT, b-com, EDF, Intel, Cisco | Study on Interconnect of SNPN | SID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230628 | This has to be progressed in between meetings.  Rev marks to be cleaned. | Revised to S1-230794 |
| 09 | 4 | S1-230794 | NOVAMINT, b-com, EDF, Intel, Cisco | Study on Interconnect of SNPN | SID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230687 | Revision of S1-230306. Revision of S1-230347. Revision of S1-230628. Revision of S1-230687. No track changes | Agreed |
| 10 | 4 | [**S1-230310**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230310.zip) | NOVAMINT, b-com, EDF, Intel, Cisco | Motivation for a SID on Interconnect of SNPN | SID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Between previous meeting and the current meeting, the interconnect aspects have been added as well as the timeline. |  | Noted |
| 12 | 4 | [**S1-230033**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230033.zip) | Ericsson, Deutsche Telekom | New WID on Roaming Value-Added Services | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | WID to create normative requirements for RVAS |  | Revised to S1-230334 |
| 13 | 4 | S1-230334 | Ericsson, Deutsche Telekom | New WID on Roaming Value-Added Services | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230033 | Revision of S1-230033. Completion date March. | Agreed |
| 14 | 4 | [**S1-230034**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230034.zip) | Ericsson, Deutsche Telekom, KPN, AT&T | Roaming Value-Added Services | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0668 |  | B | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | CR to add the Roaming Value-Added Services (RVAS) identified in the RVAS study. |  | Revised to S1-230333 |
| 15 | 4 | S1-230333 | Ericsson, Deutsche Telekom, KPN, AT&T | Roaming Value-Added Services | CR | 22.261 | 0668 | 1 | B | 19.1.0 | Rel-19 | DUMMY | Replaces S1-230034 | Revision of S1-230034.  6.44.1 starts with a hanging paragraph. This has to be corrected.  Nokia: "forward signalling" is not SA1's matters | Revised to S1-230629 |
| 16 | 4 | S1-230629 | Ericsson, Deutsche Telekom, KPN, AT&T | Roaming Value-Added Services | CR | 22.261 | 0668 | 2 | B | 19.1.0 | Rel-19 | **DUMMY** | Replaces S1-230333 | Revision of S1-230034. Revision of S1-230333. | Revised to S1-230688 |
| 17 | 4 | S1-230688 | Ericsson, Deutsche Telekom, KPN, AT&T | Roaming Value-Added Services | CR | 22.261 | 0668 | 3 | B | 19.1.0 | Rel-19 | **DUMMY** | Replaces S1-230629  Minor rewording done | Revision of S1-230034. Revision of S1-230333. Revision of S1-230629. Last req The 5G system shall be able to support a mechanism such that all | Agreed |
| 18 | 4 | [**S1-230088**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230088.zip) | China Unicom | New WID of Network Sharing | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Starting the normative work of network sharing R19, based on the discussion in the study report TR 22.851 of FS\_Netshare. |  | Revised to S1-230330 |
| 19 | 4 | S1-230330 | China Unicom | New WID of Network Sharing | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230088 | Revision of S1-230088. | Revised to S1-230337 |
| 20 | 4 | S1-230337 | China Unicom | New WID of Network Sharing | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230330  The "impacts" table at the beginning has been updated. | Revision of S1-230088. Revision of S1-230330.  To be further progressed in between now and next meeting. | Noted |
| 21 | 4 | [**S1-230134**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230134.zip) | China Unicom | 22.261 v19.1.0 Addition of feature for Network Sharing | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0676 |  | B | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  | Check WI code | Revised to S1-230331 |
| 22 | 4 | S1-230331 | China Unicom | 22.261 v19.1.0 Addition of feature for Network Sharing | CR | 22.261 | 0676 | 1 | B | 19.1.0 | Rel-19 | DUMMY | Replaces S1-230134 | Check WI code Revision of S1-230134. | Revised to S1-230336 |
| 23 | 4 | S1-230336 | China Unicom | 22.261 v19.1.0 Addition of feature for Network Sharing | CR | 22.261 | 0676 | 2 | B | 19.1.0 | Rel-19 | DUMMY | Replaces S1-230331 | Check WI code Revision of S1-230134. Revision of S1-230331. | Noted |
| 24 | 4 | [**S1-230162**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230162.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 |  | Noted |
| 25 | 4 | [**S1-230276**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230276.zip) | Samsung | New WID on Localized Mobile Metaverse Services | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | The WID is only for discussion at SA1 101. | Moved from 7.3 | Revised to S1-230335 |
| 26 | 4 | S1-230335 | Samsung | New WID on Localized Mobile Metaverse Services | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230276 | Moved from 7.3 Revision of S1-230276. | Noted |
| 29 | 4 | [**S1-230069**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230069.zip) | Nokia, Nokia Shanghai Bell, Verizon UK Ltd., AT&T, CMCC, InterDigital, Vodafone | Subscribed Network Slice Priority | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Subscribed Network Slice Priority  This miniWID proposes to solve an issue in handling slices in case a UE is subscribed to more than one slice at the same time.  Amongst others this is to help when the network needs to redirect a UE to a band supporting certain requested network slices, the network may need to know which of the requested network slices by the UE is(are) more important if a choice needs to be made if there is no band in the network that can accommodate all the requested network slices simultaneously. Therefore the CN may e.g send to the RAN indications to redirect the UE to certain bands supporting different groups of slices based on their priority order. | Check WI code.  corresponding CR in 0339 not agreeable | Noted |
| 30 | 4 | [**S1-230070**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230070.zip) | Nokia, Nokia Shanghai Bell, Verizon UK Ltd., AT&T, CMCC, InterDigital, Vodafone | Introducing the Subscribed Network Slice Priority | draftCR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) |  |  | B | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | There is no way today in the system to control the user experience by assisting the UE or the network to derive the relative importance between subscribed network slices which what this CR resolves | Check WI code, wrong CR number, wrong cover page.  For Ericsson, this is solution-oriented. And it is not in ling with SA2's preferred approach, to have Policy control, controlled by the operator. T-Mobile agree with Ericsson and add that when a UE is subscribed to different slices, it is because it wants to access to different services, and it is not clear how it will work with this proposal.  For Nokia, the key point is to have more flexibility | Revised to S1-230339 |
| 31 | 4 | S1-230339 | Nokia, Nokia Shanghai Bell, Verizon UK Ltd., AT&T, CMCC, InterDigital, Vodafone | Introducing the Subscribed Network Slice Priority | CR | 22.261 | 0680 |  | B | 19.1.0 | Rel-19 | DUMMY | Replaces S1-230070 | Check WI code, wrong CR number, wrong cover page. Revision of S1-230070.  Ericsson: it is still not clear why this is needed, the wording is too vague, it is not clear in SA1 that this is needed  Concerns also from Mediatek, Qualcomm, KDDI. Telefonica and Nokia think this can already be achieved with policies.  More discussions in between meetings | Noted |
| 33 | 4 | [**S1-230190**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230190.zip) | China Mobile, NTT Docomo, China Telecom, China Unicom | New WID on Supporting mobility for  XR services | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | Check WI code.  See corresponding CR in 191. | Revised to S1-230483 |
| 34 | 4 | S1-230483 | China Mobile, NTT Docomo, China Telecom, China Unicom | New WID on Supporting mobility for  XR services | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230190 | Check WI code Revision of S1-230190. | Revised to S1-230593 |
| 35 | 4 | S1-230593 | China Mobile, NTT Docomo, China Telecom, China Unicom | New WID on Supporting mobility for  XR services | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230483 | Check WI code Revision of S1-230190. Revision of S1-230483. | Agreed |
| 36 | 4 | [**S1-230191**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230191.zip) | China Mobile, NTT Docomo, China Telecom, China Unicom | TS 22.261 CR on Supporting UE mobility with high-speed for ARVR service | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0677 |  | B | 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) | The CR adds the requirement that the 5G system shall support service continuity for AR/VR to support immersive user experience | Check WI code.  China Mobile want to remove the change on the third line in the table.  Ericsson concern, both with the numbers provided and whether these changes are actually needed to support the service.  Other companies are OK with the idea but need to further check the numbers. | Revised to S1-230340 |
| 37 | 4 | S1-230340 | China Mobile, NTT Docomo, China Telecom, China Unicom | TS 22.261 CR on Supporting UE mobility with high-speed for ARVR service | CR | 22.261 | 0677 | 1 | B | 19.1.0 | Rel-19 | TEI19 | Replaces S1-230191 | Check WI code Revision of S1-230191.  Qualcomm needs more time to check.  NSCS: rev1, next will be rev2 | Revised to S1-230484 |
| 38 | 4 | S1-230484 | China Mobile, NTT Docomo, China Telecom, China Unicom | TS 22.261 CR on Supporting UE mobility with high-speed for ARVR service | CR | 22.261 | 0677 | 2 | B | 19.1.0 | Rel-19 | TEI19 | Replaces S1-230340 | Check WI code Revision of S1-230191. Revision of S1-230340.  Wrong formatting: it shows that the KPI table is deleted, when this is not the intention. | Revised to S1-230592 |
| 39 | 4 | S1-230592 | China Mobile, NTT Docomo, China Telecom, China Unicom | TS 22.261 CR on Supporting UE mobility with high-speed for ARVR service | CR | 22.261 | 0677 | 3 | B | 19.1.0 | Rel-19 | **TEI19** | Replaces S1-230484 | Check WI code Revision of S1-230191. Revision of S1-230340. Revision of S1-230484. Keep KPI table without any change in the CR + right clause affected+ add Huawei, Futerwei, OPPO, ZTE as supporting company. | Agreed |
| 41 | 4 | [**S1-230213**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230213.zip) | CATT | New WID on Positioning Services for UEs connecting via Dual 3GPP Access | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | See corresponding CR in 214 and 215 | Noted |
| 42 | 4 | [**S1-230214**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230214.zip) | CATT | 22.071 v17..0 New requirements on DualAccessLCS | CR | [**22.071**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=584) | 0085 |  | B | 17..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 new requirements e.g. high-accuracy positioning when UE connecting to two 3GPP access networks. |  | Noted |
| 43 | 4 | [**S1-230215**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230215.zip) | CATT | 22.261 v19.1.0 New requirements on DualAccessLCS | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0678 |  | B | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | Same as 214 | Qualcomm, Nokia, Huawei and T-Mobile ask what changed compared to previous attempts at previous meetings, when there was no agreement to go forward. For them, only one paragraph was added in the "justification" section, when the concern was that it can be already done (without the CR) at the application layer. Nokia add that dual-steer is also related to this topic. Huawei disagree with the relationship with DualSteer.  These 3 documents are noted and we will come back on them if agreements can be found off-line. | Noted |
| 45 | 4 | [**S1-230299**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230299.zip) | Orange UK | WID on Edge Computing for Industrial Scenarios | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | This work Item aims at defining 5G service requirements on edge computing for industrial Scenarios | Check WI code.  This is based on 5G-ACIA work.  See corresponding CRs in 301 and 314.  T-Mobile: No "impact" box is ticked in the cover page. It is not clear if it is a Feature, BB or WT.  Samsung: "digital twin" is not defined and has no clear meaning.  Siemens: several editorial clean-up are needed on the CRs.  Sprint: "digital twin" is a main topic in 5G-ACIA views.  LG: similarities with SOBOT have to be underlined.  Vodafone: they support the idea, even if they acknowledge that "digital twin" is not (yet) defined  Interdigital also support, even if several clean-up is needed.  Same for Nokia.  Huawei: some material is available on "digital twin". And Sobot is definitely a different topic.  NCSC and Qualcomm: some formal issues with the process (where does it come from?), and the WID has to be more specific with references.  Siemens: then each time the term "digital twin" is used, the context has to be clarified. | Revised to S1-230342 |
| 46 | 4 | S1-230342 | Orange UK | WID on Edge Computing for Industrial Scenarios | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230299. | Check WI code Revision of S1-230299.  InterDigital, Xiaomi, also support.  It has to be a Feature. | Revised to S1-230630 |
| 47 | 4 | S1-230630 | Orange UK | WID on Edge Computing for Industrial Scenarios | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230342 | Revision of S1-230299. Revision of S1-230342.  Supporting companies in bold have to be put normally | Revised to S1-230689 |
| 48 | 4 | S1-230689 | Orange UK | WID on Edge Computing for Industrial Scenarios | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-230630 | Check WI code Revision of S1-230299. Revision of S1-230342. Revision of S1-230630. | Agreed |
| 49 | 4 | [**S1-230301**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230301.zip) | Orange UK | Additional clarification on security ,privacy for mobile robots using edge cloud | CR | [**22.104**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 0093 |  | B | 18.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**cyberCAV**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) | Add clarifications related to security and privacy for mobile robots enabled by edge cloud | Check WI code, wrong CR number Moved from 6.1 | Revised to S1-230343 |
| 50 | 4 | S1-230343 | Orange UK | Additional clarification on security ,privacy for mobile robots using edge cloud | CR | 22.104 | 0093 | 1 | B | 18.3.0 | Rel-19 | cyberCAV | Replaces S1-230301 | Check WI code, wrong CR number Moved from 6.1 Revision of S1-230301.  Acronym to be changed, Ericsson to be correctly spelled, wrong clauses affected, etc. | Revised to S1-230631 |
| 51 | 4 | S1-230631 | Orange UK | Additional clarification on security ,privacy for mobile robots using edge cloud | CR | 22.104 | 0093 | 2 | B | 18.3.0 | Rel-19 | **cyberCAV** | Replaces S1-230343 | Revision of S1-230301. Revision of S1-230343.  Wrong rev number.  Extra space, full stop missing | Revised to S1-230690 |
| 52 | 4 | S1-230690 | Orange UK | Additional clarification on security ,privacy for mobile robots using edge cloud | CR | 22.104 | 0093 | 3 | B | 18.3.0 | Rel-19 | **cyberCAV** | Replaces S1-230631 | Check WI code, wrong CR number Moved from 6.1 Revision of S1-230301. Revision of S1-230343. Revision of S1-230631. This is r3 in the counter and full stop at the end of the paragraph. | Agreed |
| 53 | 4 | [**S1-230314**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230314.zip) | Orange UK | An additional usecase for Industrial edge cloud regarding digital twin usage | CR | [**22.104**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 0094 |  | C | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**cyberCAV**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) | Adding clarification on edge computing for Mobile robots and adding an example new use case for digital twin in production manufacturing– it is a follow-up for 5G-ACIA LS to 3GPP | Check WI code, wrong CR number Moved from 6.1 | Revised to S1-230344 |
| 54 | 4 | S1-230344 | Orange UK | An additional usecase for Industrial edge cloud regarding digital twin usage | CR | 22.104 | 0094 | 1 | C | 18.3.0 | Rel-18 | cyberCAV | Replaces S1-230314 | Check WI code, wrong CR number Moved from 6.1 Revision of S1-230314.  Issues with double diagram | Revised to S1-230632 |
| 55 | 4 | S1-230632 | Verizon | An additional usecase for Industrial edge cloud regarding digital twin usage | CR | 22.104 | 0094 | 2 | B | 18.3.0 | Rel-18 | **cyberCAV** | Replaces S1-230344 | Revision of S1-230314. Revision of S1-230344.  Problems with cover page  No rev marks shown on the text | Revised to S1-230691 |
| 56 | 4 | S1-230691 | Verizon | An additional usecase for Industrial edge cloud regarding digital twin usage | CR | 22.104 | 0094 | 3 | B | 18.3.0 | Rel-18 | **cyberCAV** | Replaces S1-230632 | Section A.2.2.2 should be removed from the CR (no change) | Revised to S1-230797 |
| 57 | 4 | S1-230797 | Verizon | An additional usecase for Industrial edge cloud regarding digital twin usage | CR | 22.104 | 0094 | 4 | B | 18.3.0 | Rel-18 | **cyberCAV** | Replaces S1-230691 | Check WI code, wrong CR number Moved from 6.1 Revision of S1-230314. Revision of S1-230344. Revision of S1-230632. Revision of S1-230691. Delete clause A2.2.2 | Agreed |
| 59 | 4 | S1-230346 | Peraton | New WID to cover the CR in 345 |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 60 | 4 | [**S1-230105**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230105.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | MPS handling for multiple accesses | CR | [**22.153**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) | 0057 |  | B | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**TEI19**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=980130) | Normative requirements for MPS handling when the UE is simultaneously connected to the EPC or 5GC via two or more accesses. | Needs a WID Wrong WI code  Qualcomm: the context has to be clarified (same PLMN? different ones? etc) | Revised to S1-230345 |
| 61 | 4 | S1-230345 | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | MPS handling for multiple accesses | CR | 22.153 | 0057 | 1 | B | 19.0.0 | Rel-19 | TEI19 | Replaces S1-230105 | Needs a WID Wrong WI code Revision of S1-230105. | Noted |
| 02 | 5 | [**S1-230081**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230081.zip) | Lenovo | Miscellaneous corrections to Ranging | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0669 |  | D | 18.8.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**Ranging**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=910040) | Editorial comments are provided. | Huawei: "Ranging" refers to the defined word, it should appear with a capital to distinguish from "normal" ranging.  Samsung, Siemens, KPN: not sure this is a rule.  Samsung: then have "Ranging" with a capital R in the definition, and clarify that this is not the "normal" ranging  Qualcomm: or "Ranging" can be changed to "Ranging-based services" | Revised to S1-230348 |
| 03 | 5 | S1-230348 | Lenovo | Miscellaneous corrections to Ranging | CR | 22.261 | 0669 | 1 | D | 18.8.0 | Rel-18 | Ranging | Replaces S1-230081 | Revision of S1-230081. | Agreed |
| 04 | 5 | [**S1-230082**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230082.zip) | Lenovo | Miscellaneous corrections to Ranging | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0670 |  | A | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**Ranging**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=910040) | Editorial comments are provided. |  | Revised to S1-230349 |
| 05 | 5 | S1-230349 | Lenovo | Miscellaneous corrections to Ranging | CR | 22.261 | 0670 | 1 | A | 19.1.0 | Rel-19 | Ranging | Replaces S1-230082 | Revision of S1-230082. | Agreed |
| 01 | 6.1 | [**S1-230080**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230080.zip) | Xiaomi | Clarification of SENSE requirement about the USIM usage | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0349 |  | F | 18.4.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Clarify that 5G system shall support to limit the USIM usage only for the IoT stationary devices in SENSE. | Qualcomm, T-Mobile, NCSS: this is not helpful and might be confusing to other groups. | Noted |
| 02 | 6.1 | [**S1-230083**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230083.zip) | Lenovo | Removal of redundant pointer to LPHAP use cases in TS 22.104 | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0671 |  | F | 18.8.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**LPHAP**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=910036) | In subclause 7.3.2.3 the redundant pointer to LPHAP use cases in TS 22.104 acc. to CR0526 has been removed. | MCC to check what happened. After checking, there was no problem with CR implementation, it was coming from different CRs. | Noted |
| 03 | 6.1 | [**S1-230084**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230084.zip) | Lenovo | Removal of redundant pointer to LPHAP use cases in TS 22.104 | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0672 |  | A | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**LPHAP**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=910036) | Source modified on 2/9/2023. Original source : Lenovo |  | Noted |
| 04 | 6.1 | [**S1-230085**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230085.zip) | Lenovo, Qualcomm | Corrections to PALS | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0673 |  | F | 18.8.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | Revised to S1-230552[**PALS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920038) | Source modified on 2/9/2023. Original source : Lenovo, Qualcomm | not clear what is "1t change", "2nd change", etc | Revised to S1-230550 |
| 05 | 6.1 | S1-230550 | Lenovo, Qualcomm | Corrections to PALS | CR | 22.261 | 0673 | 1 | F | 18.8.0 | Rel-18 | **PALS** | Replaces S1-230085 | Revision of S1-230085.  Huawei wonder about the "Impacts" tick boxes on the cover page but do not formally object. | Agreed |
| 06 | 6.1 | [**S1-230086**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230086.zip) | Lenovo, Qualcomm | Corrections to PALS | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0674 |  | A | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**PALS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920038) | Source modified on 2/9/2023. Original source : Lenovo, Qualcomm | same problem | Revised to S1-230551 |
| 07 | 6.1 | S1-230551 | Lenovo, Qualcomm | Corrections to PALS | CR | 22.261 | 0674 | 1 | A | 19.1.0 | Rel-19 | **PALS** | Replaces S1-230086 | Revision of S1-230086. | Agreed |
| 08 | 6.1 | [**S1-230154**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230154.zip) | Qualcomm | CR to correct MPS requirements | CR | [**22.153**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) | 0058 |  | F | 18.1.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**MPS\_WLAN**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=930024) | Propose to remove the requirements in sec. 10.1.3 | F TEI-18 no needed.  yellow highlight to be removed. | Revised to S1-230552 |
| 09 | 6.1 | S1-230552 | Qualcomm | CR to correct MPS requirements | CR | 22.153 | 0058 | 1 | F | 18.1.0 | Rel-18 | **MPS\_WLAN** | Replaces S1-230154 | TEI-18 no needed Revision of S1-230154. | Noted |
| 03 | 7.1 | [**S1-230077**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230077.zip) | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on correction to sensing KPI definitions | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes to correct the definition of Sensing Resolution which can be understood in a different way. |  | Revised to S1-230600 |
| 04 | 7.1 | S1-230600 | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Pseudo-CR on correction to sensing KPI definitions |  |  |  |  |  |  |  |  |  | Revision of S1-230077. | Agreed |
| 05 | 7.1 | [**S1-230181**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230181.zip) | KPN N.V. | Pseudo-CR on update of definitions in TR 22.837 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 pCR proposes changes to the definitions. |  | Merge into S1-230600 |
| 06 | 7.1 | [**S1-230194**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230194.zip) | China Telecom | Definition of rainfall estimation accuracy | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230601 |
| 07 | 7.1 | S1-230601 | China Telecom | Definition of rainfall estimation accuracy |  |  |  |  |  |  |  |  |  | Revision of S1-230194. | Agreed |
| 08 | 7.1 | [**S1-230221**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230221.zip) | Huawei | Discussion on the sensing definitions | 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 |
| 09 | 7.1 | [**S1-230222**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230222.zip) | Huawei | Update of sensing definitions | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230532 |
| 10 | 7.1 | S1-230532 | Huawei | Update of sensing definitions |  |  |  |  |  |  |  |  |  | Revision of S1-230222. | Revised to S1-230549 |
| 11 | 7.1 | S1-230549 | Huawei | Update of sensing definitions |  |  |  |  |  |  |  |  |  | Revision of S1-230222. Revision of S1-230532. | Agreed |
| 12 | 7.1 | [**S1-230224**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230224.zip) | vivo | Update definition and usage on motion rate accuracy | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document proposes to include motion rate accuracy in UAV intrusion detection in restricted area |  | Revised to S1-230602 |
| 13 | 7.1 | S1-230602 | vivo | Update definition and usage on motion rate accuracy |  |  |  |  |  |  |  |  |  | Revision of S1-230224. | Withdrawn |
| 14 | 7.1 | S1-230320 | SA1 Chair | FS\_Sensing Definition updates compilation |  |  |  |  |  |  |  |  |  |  | Noted |
| 15 | 7.1 | [**S1-230297**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230297.zip) | Apple | Discussion of Sensing concepts | discussion |  |  |  |  |  |  |  |  |  | Noted |
| 16 | 7.1 | [**S1-230180**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230180.zip) | OPPO | Discussion paper on KPI definition about false alarm related use cases | discussion | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  |  |  |  | This contribution describes the problem of KPI definitions about the false alarm related use cases and proposes several ways forward to address the problem of TR 22.837. |  | Noted |
| 18 | 7.1 | [**S1-230012**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230012.zip) | FirstNet | Pseudo-CR on Public Safety indoor search and rescue for Sensing and Communications | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230024 |
| 19 | 7.1 | [**S1-230024**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230024.zip) | FirstNet | Pseudo-CR on Public Safety indoor search and rescue for Sensing and Communications | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | [Revision of S1-230012](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1400043)  This change request provides a use case that can help support public safety’s mission to protect and serve. The ability to help public safety in an indoor environment with very limited visibility to locate trapped or injured individuals can help save lives and provide better results in indoor dangerous situations | Revision of S1-230012. | Revised to S1-230503 |
| 20 | 7.1 | S1-230503 | FirstNet | Pseudo-CR on Public Safety indoor search and rescue for Sensing and Communications |  |  |  |  |  |  |  |  |  | Revision of S1-230012. Revision of S1-230024. | Merge into S1-230504 |
| 21 | 7.1 | [**S1-230013**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230013.zip) | FirstNet | Pseudo-CR on Public Safety Outdoor search and rescue/apprehend for Sensing and Communications | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230504 |
| 22 | 7.1 | S1-230504 | FirstNet | Pseudo-CR on Public Safety Outdoor search and rescue/apprehend for Sensing and Communications |  |  |  |  |  |  |  |  |  | Revision of S1-230013. | Revised to S1-230607 |
| 23 | 7.1 | S1-230607 | FirstNet | Pseudo-CR on Public Safety Outdoor search and rescue/apprehend for Sensing and Communications |  |  |  |  |  |  |  |  |  | Revision of S1-230013. Revision of S1-230504.  Clean-up needed (rev on rev) | Revised to S1-230633 |
| 24 | 7.1 | S1-230633 | FirstNet | Pseudo-CR on Public Safety Outdoor search and rescue/apprehend for Sensing and Communications |  |  |  |  |  |  |  |  | Replaces S1-230607 | Revision of S1-230013. Revision of S1-230504. Revision of S1-230607. | Revised to S1-230668 |
| 25 | 7.1 | S1-230668 | FirstNet | Pseudo-CR on Public Safety Outdoor search and rescue/apprehend for Sensing and Communications |  |  |  |  |  |  |  |  | Replaces S1-230633 | Revision of S1-230013. Revision of S1-230504. Revision of S1-230607. Revision of S1-230633.  The PR should be in the continuation of the text, not in a new section.  It should be checked if a similar PR is not already present. | Revised to S1-230692 |
| 26 | 7.1 | S1-230692 | FirstNet | Pseudo-CR on Public Safety Outdoor search and rescue/apprehend for Sensing and Communications |  |  |  |  |  |  |  |  | Replaces S1-230668 | Revision of S1-230013. Revision of S1-230504. Revision of S1-230607. Revision of S1-230633. Revision of S1-230668. | Agreed |
| 27 | 7.1 | [**S1-230076**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230076.zip) | Nokia, Nokia Shanghai Bell | Health monitoring in care facilities | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes a new use case and requirements on health monitoring in care facilities by means of 5G Wireless sensing. |  | Revised to S1-230505 |
| 28 | 7.1 | S1-230505 | Nokia, Nokia Shanghai Bell | Health monitoring in care facilities |  |  |  |  |  |  |  |  |  | Revision of S1-230076. | Withdrawn |
| 29 | 7.1 | [**S1-230089**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230089.zip) | Xiaomi, Qualcomm, OPPO | New use case: Vehicle Sensing for ADAS | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | It is proposed to add a new use case: Vehicle Sensing for ADAS to 3GPP FS\_Sensing TR 22.837 V0.3.0. |  | Revised to S1-230506 |
| 30 | 7.1 | S1-230506 | Xiaomi, Qualcomm, OPPO | New use case: Vehicle Sensing for ADAS |  |  |  |  |  |  |  |  |  | Revision of S1-230089.  Rapporteur: 1st PR shall be clarified (V2X UE)  Ericsson: "for ADAS" to be removed in the 2nd PR, and same change could be done in the title | Revised to S1-230634 |
| 31 | 7.1 | S1-230634 | Xiaomi, Qualcomm, OPPO | New use case: Vehicle Sensing for ADAS |  |  |  |  |  |  |  |  | Replaces S1-230506 | Revision of S1-230089. Revision of S1-230506.  Huawei support. Some unused references to be deleted. | Revised to S1-230693 |
| 32 | 7.1 | S1-230693 | Xiaomi, Qualcomm, OPPO | New use case: Vehicle Sensing for ADAS |  |  |  |  |  |  |  |  | Replaces S1-230634 | Revision of S1-230089. Revision of S1-230506. Revision of S1-230634. Remove references not used + add Huawei | Agreed |
| 33 | 7.1 | [**S1-230094**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230094.zip) | Xiaomi | New use case: eCall Sensing for life detection | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | It is proposed to add a new use case: eCall Sensing for life detection to 3GPP TR 22.837 V0.3.0. |  | Revised to S1-230507 |
| 34 | 7.1 | S1-230507 | Xiaomi | New use case: eCall Sensing for life detection |  |  |  |  |  |  |  |  |  | Revision of S1-230094.  For Ericsson and T-Mobile, there are similar use cases already in the TR. | Noted |
| 35 | 7.1 | [**S1-230111**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230111.zip) | Intel | Use case on Sensing Malicious UE Transmitter | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230508 |
| 36 | 7.1 | S1-230508 | Intel | Use case on Sensing Malicious UE Transmitter |  |  |  |  |  |  |  |  |  | Revision of S1-230111.  Wrong font.  Sony: the criteria for detecting "malicious" data cannot be suspicion. This shall be clarified. | Revised to S1-230635 |
| 37 | 7.1 | S1-230635 | Intel | Use case on Sensing Malicious UE Transmitter |  |  |  |  |  |  |  |  | Replaces S1-230508 | Revision of S1-230111. Revision of S1-230508. | Withdrawn |
| 38 | 7.1 | [**S1-230112**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230112.zip) | Intel | Use case on Sensing 5G Spectrum for Opportunistic Spectrum Access | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 |
| 39 | 7.1 | [**S1-230120**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230120.zip) | Qualcomm Tech. Netherlands B.V | Use Case on Application Navigation using Gesture Recognition | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230509 |
| 40 | 7.1 | S1-230509 | Qualcomm | Use Case on Application Navigation using Gesture Recognition |  |  |  |  |  |  |  |  |  | Revision of S1-230120.  Ericsson: why accuracy in bracket? To be replaced by FFS  Traffic scenarios to be considered | Revised to S1-230636 |
| 41 | 7.1 | S1-230636 | Qualcomm | Use Case on Application Navigation using Gesture Recognition |  |  |  |  |  |  |  |  | Replaces S1-230509 | Revision of S1-230120. Revision of S1-230509.  "0.04" to be changed to FFS (in resolution) as well as another value | Revised to S1-230695 |
| 42 | 7.1 | S1-230695 | Qualcomm | Use Case on Application Navigation using Gesture Recognition |  |  |  |  |  |  |  |  | Replaces S1-230636 | Revision of S1-230120. Revision of S1-230509. Revision of S1-230636. Range resolutions and positioning accuracy to FFS | Agreed |
| 43 | 7.1 | [**S1-230124**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230124.zip) | Rakuten Mobile | Pseudo-CR Use case of sensing on Congestion Detection | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | [Revision of S1-223692](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1394018)  This contribution proposes a new use case for FS\_Sensing |  | Noted |
| 44 | 7.1 | [**S1-230135**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230135.zip) | Huawei,Xiaomi | out-of-coverage 5G Wireless sensing for automotive maneuvering and navigation service | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230502 |
| 45 | 7.1 | S1-230502 | Huawei, Xiaomi | out-of-coverage 5G Wireless sensing for automotive maneuvering and navigation service |  |  |  |  |  |  |  |  |  | Revision of S1-230135. | Revised to S1-230510 |
| 46 | 7.1 | S1-230510 | Huawei, Xiaomi | out-of-coverage 5G Wireless sensing for automotive maneuvering and navigation service |  |  |  |  |  |  |  |  |  | Revision of S1-230135. Revision of S1-230502.  Vodafone (GTM): need more time, in particular for continuity aspects | Revised to S1-230637 |
| 47 | 7.1 | S1-230637 | Huawei, Xiaomi | out-of-coverage 5G Wireless sensing for automotive maneuvering and navigation service |  |  |  |  |  |  |  |  | Replaces S1-230510 | Revision of S1-230135. Revision of S1-230502. Revision of S1-230510.  Ericsson has an issue with the note in the service flow: they do not think it is possible. | Revised to S1-230798 |
| 48 | 7.1 | S1-230798 | Huawei, Xiaomi | out-of-coverage 5G Wireless sensing for automotive maneuvering and navigation service |  |  |  |  |  |  |  |  | Replaces S1-230637 | Revision of S1-230135. Revision of S1-230502. Revision of S1-230510. Revision of S1-230637. Delete note from service flow step 2. | Agreed |
| 49 | 7.1 | [**S1-230146**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230146.zip) | CMDI | pCR on new use case on intersection detection for a Smart Traffic Light | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | new use case on intersection detection for a Smart Traffic Light |  | Revised to S1-230562 |
| 50 | 7.1 | S1-230562 | Verizon | background discussion paper for S1-230314 |  |  |  |  |  |  |  |  |  | Revision of S1-230146. | Revised to S1-230511 |
| 51 | 7.1 | S1-230511 | CMDI | pCR on new use case on intersection detection for a Smart Traffic Light |  |  |  |  |  |  |  |  |  | Revision of S1-230146. Revision of S1-230562. | Revised to S1-230638 |
| 52 | 7.1 | S1-230638 | CMDI | pCR on new use case on intersection detection for a Smart Traffic Light |  |  |  |  |  |  |  |  | Replaces S1-230511 | Revision of S1-230146. Revision of S1-230562. Revision of S1-230511. | Withdrawn |
| 53 | 7.1 | [**S1-230152**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230152.zip) | CATT | pCR use case on Hand Tracking in XR applications | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 into S1-230509 |
| 54 | 7.1 | [**S1-230206**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230206.zip) | DENSO CORPORATION | 5G Wireless sensing for automated mobility in partial coverage and out-of-coverage | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document proposes a new use case of 5G Wireless sensing support for automated mobility. |  | Merge into S1-230510 |
| 55 | 7.1 | [**S1-230216**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230216.zip) | IIT Bombay | Use case on sensing disturbance/intrusion in maritime scenario | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document proposes a use case along with requirements to be considered for FS\_Sensing in TR 22.837 |  | Revised to S1-230554 |
| 56 | 7.1 | S1-230554 | IIT Bombay | Use case on sensing disturbance/intrusion in maritime scenario | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230216 | Revision of S1-230216. | Noted |
| 57 | 7.1 | [**S1-230227**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230227.zip) | vivo | New use case on blind spot detection | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | The document provides a Text Proposal to introduce a new use case on blind spot detection |  | Revised to S1-230512 |
| 58 | 7.1 | S1-230512 | vivo | New use case on blind spot detection |  |  |  |  |  |  |  |  |  | Revision of S1-230227.  Telefonica: a clearer distinction should be made for new use cases versus existing ones. | Revised to S1-230639 |
| 59 | 7.1 | S1-230639 | vivo | New use case on blind spot detection |  |  |  |  |  |  |  |  | Replaces S1-230512 | Revision of S1-230227. Revision of S1-230512. | Agreed |
| 60 | 7.1 | [**S1-230244**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230244.zip) | Xiaomi Communications | New use case on sensing-assisted autonomous driving | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 into S1-230510 |
| 61 | 7.1 | [**S1-230245**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230245.zip) | Xiaomi Communications | New use case on sensing-assisted child custody | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 |
| 62 | 7.1 | [**S1-230269**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230269.zip) | Rakuten Mobile, Inc | Use Case on Air Pollution Monitoring using Sensing | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes a new use case and requirements on Air Pollution Monitoring using Sensing to 22.837 |  | Revised to S1-230513 |
| 63 | 7.1 | S1-230513 | Rakuten | Use Case on Air Pollution Monitoring using Sensing |  |  |  |  |  |  |  |  |  | Revision of S1-230269. | Noted |
| 64 | 7.1 | [**S1-230317**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230317.zip) | Philips International B.V. | New use case on fall detection using wireless sensing | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230514 |
| 65 | 7.1 | S1-230514 | Philips | New use case on fall detection using wireless sensing |  |  |  |  |  |  |  |  |  | Revision of S1-230317.  No objection but rewording needed | Revised to S1-230646 |
| 66 | 7.1 | S1-230646 | Philips | New use case on fall detection using wireless sensing |  |  |  |  |  |  |  |  | Replaces S1-230514 | Revision of S1-230317. Revision of S1-230514  Ericsson still has issues with the target of the sensing. | Noted |
| 67 | 7.1 | [**S1-230295**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230295.zip) | Apple | New Use case on Simultaneous Active Sensing Services | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230548 |
| 68 | 7.1 | S1-230548 | Apple | New Use case on Simultaneous Active Sensing Services |  |  |  |  |  |  |  |  |  | Revision of S1-230295. | Noted |
| 69 | 7.1 | [**S1-230318**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230318.zip) | Lenovo | Use Case of sensing assistance for visually impaired | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes a new use case for FS\_Sensing, which is about providing environment perception assistance for visually impaired, based on the 5GS sensing service. |  | Revised to S1-230530 |
| 70 | 7.1 | S1-230530 | Lenovo | Use Case of sensing assistance for visually impaired |  |  |  |  |  |  |  |  |  | Revision of S1-230318. | Revised to S1-230533 |
| 71 | 7.1 | S1-230533 | Lenovo | Use Case of sensing assistance for visually impaired |  |  |  |  |  |  |  |  |  | Revision of S1-230318. Revision of S1-230530.  Chair "5GS" to be replaced by "The 5GS"  Ericsson: more time needed for review | Revised to S1-230640 |
| 72 | 7.1 | S1-230640 | Lenovo | Use Case of sensing assistance for visually impaired |  |  |  |  |  |  |  |  | Replaces S1-230533 | Revision of S1-230318. Revision of S1-230530. Revision of S1-230533.  For Ericsson and T-Mobile, this is still for the application layer, not for 3GPP. | Revised to S1-230779 |
| 73 | 7.1 | S1-230779 | Lenovo | Use Case of sensing assistance for visually impaired |  |  |  |  |  |  |  |  | Replaces S1-230640 | Revision of S1-230318. Revision of S1-230530. Revision of S1-230533. Revision of S1-230640. | Withdrawn |
| 74 | 7.1 | [**S1-230319**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230319.zip) | Lenovo | Use Case of sensing assistance for enhanced positioning | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes a new use case for FS\_Sensing, which is about enhanced positioning of a UE utilizing 5GS sensing service. |  | Revised to S1-230531 |
| 75 | 7.1 | S1-230531 | Lenovo | Use Case of sensing assistance for enhanced positioning |  |  |  |  |  |  |  |  |  | Revision of S1-230319. | Revised to S1-230534 |
| 76 | 7.1 | S1-230534 | Lenovo | Use Case of sensing assistance for enhanced positioning |  |  |  |  |  |  |  |  |  | Revision of S1-230319. Revision of S1-230531.  "The 5GS" also.  Ericsson: this is in the application area and should not be specified by 3GPP. | Revised to S1-230641 |
| 77 | 7.1 | S1-230641 | Lenovo | Use Case of sensing assistance for enhanced positioning |  |  |  |  |  |  |  |  | Replaces S1-230534 | Revision of S1-230319. Revision of S1-230531. Revision of S1-230534.  Ericsson want the 2nd requirement to be removed  Lenovo think that this 2nd requirement is essential, but as a compromise, they have to accept to remove it. | Revised to S1-230696 |
| 78 | 7.1 | S1-230696 | Lenovo | Use Case of sensing assistance for enhanced positioning |  |  |  |  |  |  |  |  | Replaces S1-230641 | Revision of S1-230319. Revision of S1-230531. Revision of S1-230534. Revision of S1-230641. Remove second requirement | Agreed |
| 80 | 7.1 | [**S1-230055**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230055.zip) | InterDigital | Update of the use case of intruder detection in smart home | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230557 |
| 81 | 7.1 | S1-230557 | InterDigital | Update of the use case of intruder detection in smart home | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230055 | InterDigital: "to define and reconfigure" to be changed into "to configure"  Vodafone (GTM): the understanding of this sentence could be quite wide. It has to be rephrased.  InterDIgital: this is in the same style as many other PR. | Revised to S1-230642 |
| 82 | 7.1 | S1-230642 | InterDigital | Update of the use case of intruder detection in smart home | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230557 | Revision of S1-230055. Revision of S1-230557.  For Ericsson and T-Mobile, this is again combining two different services. | Noted |
| 83 | 7.1 | [**S1-230294**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230294.zip) | Apple | Clarification on sensing data processing and entity initiating sensing procedure | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | The use case of intruder detection in smart home is updated to clarify that:  1. the entity requesting the initiation of sensing procedure can be different than the entity that performs the sensing procedure  2. sensing information can be processed at the sensing receiver and the 5G network | Need further talks, in particular since it has relationships with other documents (e.g. 055) | Revised to S1-230535 |
| 84 | 7.1 | S1-230535 | Apple | Clarification on sensing data processing and entity initiating sensing procedure |  |  |  |  |  |  |  |  |  | Revision of S1-230294. | Noted |
| 85 | 7.1 | [**S1-230056**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230056.zip) | InterDigital | Update of the use case on health monitoring at home | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 use case is updated in particular to add a new PR:  [PR 5.17.6-5] The 5G system shall support a mechanism for the 5G network to trigger a communication service based on the sensing result (for example, event exposure of sensing service). | Some off-line talks needed (T-Mobile). | Revised to S1-230556 |
| 86 | 7.1 | S1-230556 | InterDigital | Update of the use case on health monitoring at home | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230056 | Similar concerns as 557 | Revised to S1-230643 |
| 87 | 7.1 | S1-230643 | InterDigital | Update of the use case on health monitoring at home | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230556 | Revision of S1-230056. Revision of S1-230556. | Noted |
| 88 | 7.1 | [**S1-230060**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230060.zip) | InterDigital | Update of use case on sensing in smart cities | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | The update to include collaboration of sensing and communication service is proposed. | Ericsson: It can be made more generic, about transmitting and receiving devices.  Chair: clear progress has to be made at this meeting on the vocabulary. | Revised to S1-230558 |
| 89 | 7.1 | S1-230558 | InterDigital | Update of use case on sensing in smart cities | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230060 | Revision of S1-230060.  For Ericsson, this does not add anything to the existing requirements.  For Samsung, there is no harm in duplication requirements. | Agreed |
| 90 | 7.1 | [**S1-230116**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230116.zip) | NTT DOCOMO, NTT | Update use case on sensing for flooding in smart cities | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | KPI table and NOTE are added to the use case on sensing for flooding in smart cities. |  | Revised to S1-230539 |
| 91 | 7.1 | S1-230539 | NTT DOCOMO, NTT | Update use case on sensing for flooding in smart cities |  |  |  |  |  |  |  |  |  | Revision of S1-230116. | Agreed |
| 92 | 7.1 | [**S1-230098**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230098.zip) | ZTE Corporation. | pCR to update 5.11 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes to update the section 5.11 “use case on sensing at crossroads with/without obstacle”, including to add new PRs and align the KPI table with the TR. |  | Revised to S1-230559 |
| 93 | 7.1 | S1-230559 | ZTE Corporation. | pCR to update 5.11 | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230098 | "sensing measuring data" -> "sensing data"  changes on changes | Revised to S1-230644 |
| 94 | 7.1 | S1-230644 | ZTE Corporation. | pCR to update 5.11 | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230559 | Revision of S1-230098. Revision of S1-230559.  Clean-up needed (remove change on change) | Revised to S1-230697 |
| 95 | 7.1 | S1-230697 | ZTE Corporation. | pCR to update 5.11 | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230644 | Revision of S1-230098. Revision of S1-230559. Revision of S1-230644. Remove changes on changes No presentation | Agreed |
| 96 | 7.1 | [**S1-230113**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230113.zip) | Qualcomm Tech. Netherlands B.V | Update to Use case on Seamless XR Streaming | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230536 |
| 97 | 7.1 | S1-230536 | Qualcomm | Update to Use case on Seamless XR Streaming |  |  |  |  |  |  |  |  |  | Revision of S1-230113. | Revised to S1-230605 |
| 98 | 7.1 | S1-230605 | Qualcomm | Update to Use case on Seamless XR Streaming |  |  |  |  |  |  |  |  |  | Revision of S1-230113. Revision of S1-230536. | Revised to S1-230647 |
| 99 | 7.1 | S1-230647 | Qualcomm | Update to Use case on Seamless XR Streaming |  |  |  |  |  |  |  |  | Replaces S1-230605 | Revision of S1-230113. Revision of S1-230536. Revision of S1-230605. | Agreed |
| 100 | 7.1 | [**S1-230115**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230115.zip) | Qualcomm Tech. Netherlands B.V | Update to Use case on Sensing Assisted Automotive Maneuvering and Navigation | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230537 |
| 101 | 7.1 | S1-230537 | Qualcomm | Update to Use case on Sensing Assisted Automotive Maneuvering and Navigation |  |  |  |  |  |  |  |  |  | Revision of S1-230115. | Revised to S1-230606 |
| 102 | 7.1 | S1-230606 | Qualcomm | Update to Use case on Sensing Assisted Automotive Maneuvering and Navigation |  |  |  |  |  |  |  |  |  | Revision of S1-230115. Revision of S1-230537.  Typos to be corrected | Revised to S1-230648 |
| 103 | 7.1 | S1-230648 | Qualcomm | Update to Use case on Sensing Assisted Automotive Maneuvering and Navigation |  |  |  |  |  |  |  |  | Replaces S1-230606 | Revision of S1-230115. Revision of S1-230537. Revision of S1-230606. | Agreed |
| 104 | 7.1 | [**S1-230117**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230117.zip) | NTT DOCOMO, NTT | Update use case on intruder detection in surroundings of smart home | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | KPI table is added to the use case on intruder detection in surroundings of smart home. |  | Revised to S1-230538 |
| 105 | 7.1 | S1-230538 | NTT DOCOMO, NTT | Update use case on intruder detection in surroundings of smart home |  |  |  |  |  |  |  |  |  | Revision of S1-230117. | Agreed |
| 106 | 7.1 | [**S1-230121**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230121.zip) | Qualcomm | Update to Clause 5.10 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution provides updates to the use case on Flight trajectory tracking in Clause 5.10 |  | Agreed |
| 107 | 7.1 | [**S1-230177**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230177.zip) | Huawei | Update of KPI table for railway intrusion detection | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document proposes to address the Editor’s Note of the KPI table for railway intrusion detection. |  | Agreed |
| 108 | 7.1 | [**S1-230178**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230178.zip) | Huawei | Update of Clause 5.13 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document proposes to update Clause 5.13. | All references need to be in English (and freely available). | Revised to S1-230560 |
| 109 | 7.1 | S1-230560 | Huawei | Update of Clause 5.13 | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230178 | Revision of S1-230178. | Revised to S1-230547 |
| 110 | 7.1 | S1-230547 | Huawei | Update of Clause 5.13 |  |  |  |  |  |  |  |  |  | Revision of S1-230178. Revision of S1-230560. | Agreed |
| 111 | 7.1 | [**S1-230207**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230207.zip) | China Mobile Com. Corporation | pCR on update KPI of use case on sensing for tourist spot traffic management | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | [Revision of S1-223498](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393824).  This document proposes on updating KPI table on use case on sensing for tourist spot traffic management. | Ericsson lacks motivation about why the changes are made. | Revised to S1-230540 |
| 112 | 7.1 | S1-230540 | China Mobile | pCR on update KPI of use case on sensing for tourist spot traffic management |  |  |  |  |  |  |  |  |  | Revision of S1-230207. | Revised to S1-230649 |
| 113 | 7.1 | S1-230649 | China Mobile | pCR on update KPI of use case on sensing for tourist spot traffic management |  |  |  |  |  |  |  |  | Replaces S1-230540 | Revision of S1-230207. Revision of S1-230540. | Agreed |
| 114 | 7.1 | [**S1-230208**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230208.zip) | China Mobile Com. Corporation | pCR on update KPI of use case sensing for UAV intrusion detection | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | [Revision of S1-223578](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393904) | Same comment from Ericsson.  Units to be changed | Revised to S1-230561 |
| 115 | 7.1 | S1-230561 | China Mobile Com. Corporation | pCR on update KPI of use case sensing for UAV intrusion detection | pCR | 22.837 |  |  |  | 0.3.0 | Rel-19 | **FS\_Sensing** | Replaces S1-230208 | Revision of S1-230208. | Merged into S1-230547 |
| 116 | 7.1 | [**S1-230225**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230225.zip) | vivo | Updates on use case 5.18 to resolve EN and enable detection of sensing target object | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document provides a Text Proposal to resolve EN on use case 5.18 | Ericsson has concerns with the service continuity. | Merged into S1-230541 |
| 117 | 7.1 | [**S1-230316**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230316.zip) | Philips International B.V. | Addressing Editor's Note in Use Case 5.18 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230541 |
| 118 | 7.1 | S1-230541 | Philips | Addressing Editor's Note in Use Case 5.18 |  |  |  |  |  |  |  |  |  | Revision of S1-230316. | Agreed |
| 119 | 7.1 | [**S1-230226**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230226.zip) | vivo | Updates on use case 5.22 to include sensing assistance information | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document provides a Text Proposal to include utiliization of assistance data for deriving sensing result on use case 5.22 |  | Revised to S1-230542 |
| 120 | 7.1 | S1-230542 | vivo | Updates on use case 5.22 to include sensing assistance information |  |  |  |  |  |  |  |  |  | Revision of S1-230226. | Revised to S1-230626 |
| 121 | 7.1 | S1-230626 | vivo | Updates on use case 5.22 to include sensing assistance information |  |  |  |  |  |  |  |  | Replaces S1-230542 | Revision of S1-230226. Revision of S1-230542. | Agreed |
| 122 | 7.1 | [**S1-230251**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230251.zip) | KPN N.V. | Pseudo-CR on update of use case 5.10 in TR 22.837 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | Update of the use case on UAV flight trajectory tracing in TR 22.837. |  | Noted |
| 123 | 7.1 | [**S1-230254**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230254.zip) | KPN N.V. | Pseudo-CR on update of use case 5.8 in TR 22.837 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | Update of the use case on Sensing Assisted Automotive Maneuvering and Navigation. |  | Revised to S1-230543 |
| 123 | 7.1 | S1-230650 | KPN | Pseudo-CR on update of use case 5.8 in TR 22.837 |  |  |  |  |  |  |  |  | Replaces S1-230543 | Revision of S1-230254. Revision of S1-230543.  Changes on changes to be cleaned up.  Siemens: "Any MNO" -> "any operator"  For Ericsson, this is already covered, so last requirement has to be removed (number 7). | Revised to S1-230698 |
| 124 | 7.1 | S1-230543 | KPN | Pseudo-CR on update of use case 5.8 in TR 22.837 |  |  |  |  |  |  |  |  |  | Revision of S1-230254.  "shall provide" -> "shall be able to provide" | Revised to S1-230650 |
| 124 | 7.1 | S1-230698 | KPN | Pseudo-CR on update of use case 5.8 in TR 22.837 |  |  |  |  |  |  |  |  | Replaces S1-230650 | Revision of S1-230254. Revision of S1-230543. Revision of S1-230650. | Agreed |
| 125 | 7.1 | [**S1-230296**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230296.zip) | Apple | Clarification on UE sensing configuration | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 |
| 126 | 7.1 | [**S1-230255**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230255.zip) | Deutsche Telekom, Samsung | pCR on updating Sensor Groups use case and proposing new definitions | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230544 |
| 127 | 7.1 | S1-230544 | Deutsche Telekom, Samsung | pCR on updating Sensor Groups use case and proposing new definitions |  |  |  |  |  |  |  |  |  | Revision of S1-230255.  Some typos | Revised to S1-230651 |
| 128 | 7.1 | S1-230651 | Deutsche Telekom, Samsung | pCR on updating Sensor Groups use case and proposing new definitions |  |  |  |  |  |  |  |  | Replaces S1-230544 | Revision of S1-230255. Revision of S1-230544. | Revised to S1-230754 |
| 129 | 7.1 | S1-230754 | Deutsche Telekom, Samsung | pCR on updating Sensor Groups use case and proposing new definitions |  |  |  |  |  |  |  |  | Replaces S1-230651 | Revision of S1-230255. Revision of S1-230544. Revision of S1-230651. sensing service in the Note | Agreed |
| 130 | 7.1 | [**S1-230256**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230256.zip) | KPN N.V. | Pseudo-CR on update of use case 5.20 in TR 22.837 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | Update of the use case on Sensing for Parking Space Determination. |  | Noted |
| 131 | 7.1 | [**S1-230279**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230279.zip) | Samsung | Pseudo-CR on Update to Use Case 5.4 | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 pCR removes editor's notes and cleans up the user of terminology in the use case. |  | Revised to S1-230545 |
| 132 | 7.1 | S1-230545 | Samsung | Pseudo-CR on Update to Use Case 5.4 |  |  |  |  |  |  |  |  |  | Revision of S1-230279. We need terminology alignment.  PR 5.46-1a to be cleaned-up | Revised to S1-230652 |
| 133 | 7.1 | S1-230652 | Samsung | Pseudo-CR on Update to Use Case 5.4 |  |  |  |  |  |  |  |  | Replaces S1-230545 | Revision of S1-230279. We need terminology alignment. Revision of S1-230545. | Revised to S1-230694 |
| 134 | 7.1 | S1-230694 | Samsung | Pseudo-CR on Update to Use Case 5.4 |  |  |  |  |  |  |  |  | Replaces S1-230652 | Terminology to be aligned | Revised to S1-230755 |
| 135 | 7.1 | S1-230755 | Samsung | Pseudo-CR on Update to Use Case 5.4 |  |  |  |  |  |  |  |  | Replaces S1-230694 | Revision of S1-230279. We need terminology alignment. Revision of S1-230545. Revision of S1-230652. Revision of S1-230694. Adapt to sensing data and adapt to regulatory requirements No presentation | Agreed |
| 136 | 7.1 | [**S1-230308**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230308.zip) | Deutsche Telekom, Nokia, Nokia Shanghai Bell | Updates in use cases 5.1 – 5.12 to align usage of sensing transmitter and sensing receiver | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 S1-230603 |
| 137 | 7.1 | S1-230603 | Deutsche Telekom, Nokia, Nokia Shanghai Bell | Updates in use cases 5.1 5.12 to align usage of sensing transmitter and sensing receiver |  |  |  |  |  |  |  |  |  | Revision of S1-230308.  Some concerns still on the Transfer existing new requirement to receiver. Sensing node and telecommunication node need to be clarified.  More companies need time to check.  This can be mentioned in the contentious issue (or in the open issue) in the TR cover page.  This is to be progressed off-line in between meetings. | Noted |
| 138 | 7.1 | [**S1-230078**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230078.zip) | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Updates in use cases 5.13 - 5.26 to align usage of sensing transmitter and sensing receiver | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | Changes in clause 5.13 till 5.26 to accommodate sensing transmitter and sensing receiver |  | Revised to S1-230604 |
| 139 | 7.1 | S1-230604 | Nokia, Nokia Shanghai Bell, Deutsche Telekom | Updates in use cases 5.13 - 5.26 to align usage of sensing transmitter and sensing receiver |  |  |  |  |  |  |  |  |  | Revision of S1-230078.  Same concerns as 603, | Noted |
| 141 | 7.1 | [**S1-230099**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230099.zip) | ZTE Corporation. China Telecom | Discussion paper on consolidation of service requirement of Sensing | 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) |  | This contribution analyzes and summarizes the possible consolidation of service requirements of sensing TR22.837. |  | Noted |
| 142 | 7.1 | [**S1-230223**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230223.zip) | Huawei | Consolidated potential requirement for intruder detection in FS\_Sensing | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 |
| 143 | 7.1 | [**S1-230100**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230100.zip) | ZTE Corporation, China Telecom | pCR on Consolidation of potential service requirement of Sensing | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes the consolidation of potential service functional requirements of sensing according to the agreed PRs in TR22.837 v0.3.0. |  | Noted |
| 144 | 7.1 | [**S1-230147**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230147.zip) | CMDI | Discussion about Consolidation on Potential Requirement of Sensing | 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 about Consolidation on Potential Requirement of Sensing |  | Noted |
| 145 | 7.1 | [**S1-230286**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230286.zip) | vivo | Consolidation considerations and proposals | 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) |  | This document provides considerations and proposals for consolidation |  | Noted |
| 146 | 7.1 | [**S1-230287**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230287.zip) | vivo | Consolidation skeleton proposal | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 document provides skeleton proposal for consolidation |  | Noted |
| 147 | 7.1 | [**S1-230290**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230290.zip) | Deutsche Telekom | Discussion on consolidated requirements of FS\_Sensing | 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 |
| 148 | 7.1 | [**S1-230291**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230291.zip) | Deutsche Telekom | pCR on consolidated requirements section of FS\_Sensing | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 |
| 150 | 7.1 | [**S1-230311**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230311.zip) | Beijing Xiaomi Software Tech | [draft] LS on clarification for commercial use case supported in 5GS ProSe Service | LS out |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 151 | 7.1 | [**S1-230230**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230230.zip) | OTD\_US | Pseudo-CR to update considerations for Mission Critical and other priority services | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes additional clarification for the users of sensing services related to regional and national regulatory rules/policies. |  | Merged into S1-230321 |
| 152 | 7.1 | [**S1-230235**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230235.zip) | OTD\_US | Pseudo-CR to update considerations on Privacy for regulatory services | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes additional clarification for considerations on privacy for regulatory services. |  | Merged into S1-230321 |
| 153 | 7.1 | [**S1-230022**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230022.zip) | Deutsche Telekom | Updates in Considerations section | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | Changes in clause 6 - considerations for better readibility and clarity |  | Revised to S1-230321 |
| 154 | 7.1 | S1-230321 | Deutsche Telekom | Updates in Considerations section |  |  |  |  |  |  |  |  |  | Revision of S1-230022. | Revised to S1-230546 |
| 155 | 7.1 | S1-230546 | Deutsche Telekom | Updates in Considerations section |  |  |  |  |  |  |  |  |  | Revision of S1-230022. Revision of S1-230321. | Revised to S1-230653 |
| 156 | 7.1 | S1-230653 | Deutsche Telekom | Updates in Considerations section |  |  |  |  |  |  |  |  | Replaces S1-230546 | Revision of S1-230022. Revision of S1-230321. Revision of S1-230546. | Agreed |
| 157 | 7.1 | [**S1-230228**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230228.zip) | Xiaomi | Update to Sensing Security Considerations | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Sensing**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950003) | It is proposed to update the current considerations on confidentiality, integrity and privacy in clauses 6.1 and 6.2 of 3GPP TR 22.837 V0.3.0. |  | Merged into S1-230546 |
| 158 | 7.1 | [**S1-230312**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230312.zip) | Motorola Mobility Germany GmbH | Use Case of sensing assistance for visually impaired | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes a new use case for FS\_Sensing, which is about providing environment perception assistance for visually impaired, based on the 5GS sensing service. |  | Withdrawn |
| 159 | 7.1 | [**S1-230313**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230313.zip) | Motorola Mobility Germany GmbH | Use Case of sensing assistance for enhanced positioning | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.3.0 | [**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 contribution proposes a new use case for FS\_Sensing, which is about enhanced positioning of a UE utilizing 5GS sensing service. |  | Withdrawn |
| 01 | 7.1.1 | S1-230718 | Rapporteur | Cover page for TR 22.837 on sensing |  |  |  |  |  |  |  |  |  | 1st sentence to be deleted | Revised to S1-230799 |
| 02 | 7.1.1 | S1-230799 | Rapporteur | Cover page for TR 22.837 on sensing |  |  |  |  |  |  |  |  | Replaces S1-230718 | Revision of S1-230718. | Agreed |
| 03 | 7.1.1 | S1-230719 | Rapporteur (Deutsche Telekom) | TR 22.837v0.4.0 Study on Integrated Sensing and Communication |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.2 | [**S1-230167**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230167.zip) | OPPO | pCR on overview for TR22840 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 provides a Text Proposal on the overview part of TR22840. |  | Revised to S1-230515 |
| 04 | 7.2 | S1-230515 | OPPO | pCR on overview for TR22840 |  |  |  |  |  |  |  |  |  | Revision of S1-230167. | Revised to S1-230654 |
| 05 | 7.2 | S1-230654 | OPPO | pCR on overview for TR22840 |  |  |  |  |  |  |  |  | Replaces S1-230515 | Revision of S1-230167. Revision of S1-230515. | Agreed |
| 06 | 7.2 | [**S1-230205**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230205.zip) | Xiaomi | Use Case grouping and priority | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | It is proposed to add the use case grouping and priority recommendation to 3GPP TR 22.840 V1.0.0. |  | Noted |
| 07 | 7.2 | [**S1-230164**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230164.zip) | vivo | Use case categories | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230516 |
| 08 | 7.2 | S1-230516 | vivo | Use case categories |  |  |  |  |  |  |  |  |  | Revision of S1-230164.  Still several companies with concerns (Qualcomm, etc) | Noted |
| 09 | 7.2 | [**S1-230161**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230161.zip) | OPPO | On the use of comparison operators in the KPI tables | 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) |  | Discussion on the use of comparison operators in the KPI tables |  | Noted |
| 10 | 7.2 | [**S1-230201**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230201.zip) | vivo | new KPI parameter proposal | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230518 |
| 11 | 7.2 | S1-230518 | vivo | new KPI parameter proposal |  |  |  |  |  |  |  |  |  | Revision of S1-230201.  There is still some opposition (Ericsson, Huawei, Sony) | Noted |
| 13 | 7.2 | [**S1-230059**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230059.zip) | Sharp | Pseudo-CR on Ambient IoT device permanent deactivation | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  | Uploaded by Jose in the inbox | Revised to S1-230501 |
| 14 | 7.2 | S1-230501 | Sharp | Pseudo-CR on Ambient IoT device permanent deactivation |  |  |  |  |  |  |  |  |  | Revision of S1-230059. | Revised to S1-230519 |
| 15 | 7.2 | S1-230519 | Sharp | Pseudo-CR on Ambient IoT device permanent deactivation |  |  |  |  |  |  |  |  |  | Revision of S1-230059. Revision of S1-230501. | Revised to S1-230624 |
| 16 | 7.2 | S1-230624 | Sharp | Pseudo-CR on Ambient IoT device permanent deactivation |  |  |  |  |  |  |  |  |  | Revision of S1-230059. Revision of S1-230501. Revision of S1-230519. | Revised to S1-230655 |
| 17 | 7.2 | S1-230655 | Sharp | Pseudo-CR on Ambient IoT device permanent deactivation |  |  |  |  |  |  |  |  | Replaces S1-230624 | Revision of S1-230059. Revision of S1-230501. Revision of S1-230519. Revision of S1-230624. | Agreed |
| 18 | 7.2 | [**S1-230097**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230097.zip) | ZTE Corporation. | Use case on Ambient IoT device acting as a controller in smart agriculture | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 describes a new use case about ambient IoT device acting as a controller to control e.g. the pesticide spraying and irrigation equipment in smart agriculture |  | Revised to S1-230500 |
| 19 | 7.2 | S1-230500 | ZTE | Use case on Ambient IoT device acting as a controller in smart agriculture |  |  |  |  |  |  |  |  |  | Revision of S1-230097. | Revised to S1-230520 |
| 20 | 7.2 | S1-230520 | ZTE | Use case on Ambient IoT device acting as a controller in smart agriculture |  |  |  |  |  |  |  |  |  | Revision of S1-230097. Revision of S1-230500. | Revised to S1-230657 |
| 21 | 7.2 | S1-230657 | ZTE | Use case on Ambient IoT device acting as a controller in smart agriculture |  |  |  |  |  |  |  |  | Replaces S1-230520 | Revision of S1-230097. Revision of S1-230500. Revision of S1-230520.  "to begin communication" -> "to communicate"  Reliability: 99%->NA  "provide suitable means" -> "provide means"  "authorised third party" -"trusted third party"  Wrong header | Revised to S1-230757 |
| 22 | 7.2 | S1-230757 | ZTE | Use case on Ambient IoT device acting as a controller in smart agriculture |  |  |  |  |  |  |  |  | Replaces S1-230657 | Revision of S1-230097. Revision of S1-230500. Revision of S1-230520. Revision of S1-230657. [P.R.5.x.6-001] The 5G system shall provide means for an trusted third-party to trigger an ambient IoT device or group of ambient IoT devices to communicate periodically. + tdoc number + reliability to NA | Agreed |
| 23 | 7.2 | [**S1-230119**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230119.zip) | Intel | Use case on 5GS-ambientIoT relay communication for animal health monitoring | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230529 |
| 24 | 7.2 | S1-230529 | Intel | Use case on 5GS-ambientIoT relay communication for animal health monitoring |  |  |  |  |  |  |  |  |  | Revision of S1-230119.  Still several objections (Nokia, etc) | Noted |
| 25 | 7.2 | [**S1-230168**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230168.zip) | OPPO | Traffic scenario on Electronic Shelf Label | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 a Traffic scenario on Electronic Shelf Label |  | Revised to S1-230521 |
| 26 | 7.2 | S1-230521 | OPPO | Traffic scenario on Electronic Shelf Label |  |  |  |  |  |  |  |  |  | Revision of S1-230168.  Units to be considered | Revised to S1-230658 |
| 27 | 7.2 | S1-230658 | OPPO | Traffic scenario on Electronic Shelf Label |  |  |  |  |  |  |  |  | Replaces S1-230521 | Revision of S1-230168. Revision of S1-230521. | Revised to S1-230756 |
| 28 | 7.2 | S1-230756 | OPPO | Traffic scenario on Electronic Shelf Label |  |  |  |  |  |  |  |  | Replaces S1-230658 | "square feet" to be changed to square meters. Wrong header.  transfer interval 1 day to be changed to FFS | Revised to S1-230758 |
| 29 | 7.2 | S1-230758 | OPPO | Traffic scenario on Electronic Shelf Label |  |  |  |  |  |  |  |  | Replaces S1-230756 | Revision of S1-230168. Revision of S1-230521. Revision of S1-230658. Revision of S1-230756. Tdoc numbering, square feet to square meters and transfer interval to FFS | Agreed |
| 30 | 7.2 | [**S1-230240**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230240.zip) | Xiaomi | Use Case on Ambient IoT for Self-service Library | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Noted |
| 31 | 7.2 | [**S1-230241**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230241.zip) | Xiaomi | Use case on Ambient IoT for underground mining | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230565 |
| 32 | 7.2 | S1-230565 | Xiaomi | Use case on Ambient IoT for underground mining |  |  |  |  |  |  |  |  | Replaces S1-230403 | Revision of S1-230241. | Revised to S1-230522 |
| 33 | 7.2 | S1-230522 | Xiaomi | Use case on Ambient IoT for underground mining |  |  |  |  |  |  |  |  |  | Revision of S1-230241. Revision of S1-230565. | Revised to S1-230659 |
| 34 | 7.2 | S1-230659 | Xiaomi | Use case on Ambient IoT for underground mining |  |  |  |  |  |  |  |  | Replaces S1-230522 | Revision of S1-230241. Revision of S1-230565. Revision of S1-230522.  Still some concerns on last day | Noted |
| 35 | 7.2 | [**S1-230242**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230242.zip) | Xiaomi | Use Case on Ambient IoT in wild animal park | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230566 |
| 36 | 7.2 | S1-230566 | China Unicom, Charter Communications, ZTE | Feasibility Study on Network Sharing Aspect | pCR | 22.851 |  |  |  | 1.0.0 | Rel-19 | **FS\_NetShare** | Replaces S1-230071 | Revision of S1-230242. | Revised to S1-230523 |
| 37 | 7.2 | S1-230523 | Xiaomi | Use Case on Ambient IoT in wild animal park |  |  |  |  |  |  |  |  |  | Revision of S1-230242. Revision of S1-230566. | Noted |
| 39 | 7.2 | [**S1-230011**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230011.zip) | InterDigital | Update to the Use Case for supporting Ambient power-enabled IoT in non-public network for logistics | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | [Revision of S1-223368](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393694) |  | Revised to S1-230608 |
| 40 | 7.2 | S1-230608 | InterDigital | Update to the Use Case for supporting Ambient power-enabled IoT in non-public network for logistics |  |  |  |  |  |  |  |  |  | Revision of S1-230011.  Huawei don't think that the new requirements are needed. | Revised to S1-230660 |
| 41 | 7.2 | S1-230660 | InterDigital | Update to the Use Case for supporting Ambient power-enabled IoT in non-public network for logistics |  |  |  |  |  |  |  |  | Replaces S1-230608 | Revision of S1-230011. Revision of S1-230608.  No consensus on last day. | Noted |
| 42 | 7.2 | [**S1-230095**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230095.zip) | ZTE Corporation. Huawei | pCR to update 5.2 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 proposes to update clause 5.2 “medical instruments inventory management and positioning” in TR 22.840 v.1.0.0 to improve the description, remove editor notes of [PR 5.2.6-003] and the KPI value of “transfer interval” in Table 5.2.6-1 |  | Revised to S1-230524 |
| 43 | 7.2 | S1-230524 | ZTE, Huawei | pCR to update 5.2 |  |  |  |  |  |  |  |  |  | Revision of S1-230095.  Remove requirements and editor's notes. | Revised to S1-230662 |
| 44 | 7.2 | S1-230662 | ZTE, Huawei | pCR to update 5.2 |  |  |  |  |  |  |  |  | Replaces S1-230524 | Revision of S1-230095. Revision of S1-230524. Remove req and editors note. Taking care of the numbering. | Agreed |
| 45 | 7.2 | [**S1-230096**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230096.zip) | ZTE Corporation. Huawei | pCR to update 5.11 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 proposes to update clause 5.11 “online modification of medical instruments status” in TR 22.840 v.1.0.0, to improve the description, remove editor notes of [PR 5.11.6-002] and the KPI value of “transfer interval” in the table 5.11.6-1 |  | Revised to S1-230525 |
| 46 | 7.2 | S1-230525 | ZTE, Huawei | pCR to update 5.11 |  |  |  |  |  |  |  |  |  | Revision of S1-230096. | Revised to S1-230663 |
| 47 | 7.2 | S1-230663 | ZTE, Huawei | pCR to update 5.11 |  |  |  |  |  |  |  |  | Replaces S1-230525 | Revision of S1-230096. Revision of S1-230525. Remove req and editors note. Taking care of the numbering. | Agreed |
| 48 | 7.2 | [**S1-230122**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230122.zip) | Qualcomm | Update to Clause 5.7 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230526 |
| 49 | 7.2 | S1-230526 | Qualcomm | Update to Clause 5.7 |  |  |  |  |  |  |  |  |  | Revision of S1-230122. | Agreed |
| 50 | 7.2 | [**S1-230123**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230123.zip) | Qualcomm | Update to Clause 5.8 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 |
| 51 | 7.2 | [**S1-230174**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230174.zip) | vivo | Update of Use case 5.12 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230527 |
| 52 | 7.2 | S1-230527 | vivo | Update of Use case 5.12 |  |  |  |  |  |  |  |  |  | Revision of S1-230174. | Revised to S1-230664 |
| 53 | 7.2 | S1-230664 | vivo | Update of Use case 5.12 |  |  |  |  |  |  |  |  | Replaces S1-230527 | Revision of S1-230174. Revision of S1-230527. | Revised to S1-230759 |
| 54 | 7.2 | S1-230759 | vivo | Update of Use case 5.12 |  |  |  |  |  |  |  |  | Replaces S1-230664 | Revision of S1-230174. Revision of S1-230527. Revision of S1-230664. | Agreed |
| 55 | 7.2 | [**S1-230176**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230176.zip) | vivo | Update of Use case 5.20 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230609 |
| 56 | 7.2 | S1-230609 | vivo | Update of Use case 5.20 |  |  |  |  |  |  |  |  |  | Revision of S1-230176. | Agreed |
| 57 | 7.2 | [**S1-230183**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230183.zip) | Huawei Technologies R&D UK | Pseudo-CR on updates to clause 5.3 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230610 |
| 58 | 7.2 | S1-230610 | Huawei | Pseudo-CR on updates to clause 5.3 |  |  |  |  |  |  |  |  |  | Revision of S1-230183. | Agreed |
| 59 | 7.2 | [**S1-230209**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230209.zip) | China Mobile Com. Corporation | pCR on update service requirements and KPI table for clause 5.1 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | [Revision of S1-223480](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393806) |  | Revised to S1-230564 |
| 60 | 7.2 | S1-230564 | Xiaomi, China Mobile, Deutsche Telekom, Qualcomm, KPN | PS Data Off for IMS Data Channel Service | CR | 22.011 | 0348 | 1 | B | 18.4.0 | Rel-19 | **TEI19** | Replaces S1-230074 | Revision of S1-230209. | Revised to S1-230611 |
| 61 | 7.2 | S1-230611 | China Mobile | pCR on update service requirements and KPI table for clause 5.1 |  |  |  |  |  |  |  |  |  | Revision of S1-230209. Revision of S1-230564. | Revised to S1-230699 |
| 62 | 7.2 | S1-230699 | China Mobile | pCR on update service requirements and KPI table for clause 5.1 |  |  |  |  |  |  |  |  | Replaces S1-230611 | Ericsson do not understand the purpose of the change. It used to be one device per square meter, they are not sure of the impact on changing it to 5.  This change is marked as FFS.  Req 4 to be kept as it was. | Revised to S1-230760 |
| 63 | 7.2 | S1-230760 | China Mobile | pCR on update service requirements and KPI table for clause 5.1 |  |  |  |  |  |  |  |  | Replaces S1-230699 | Revision of S1-230209. Revision of S1-230564. Revision of S1-230611. Revision of S1-230699. Req 4 we keep the original + KPI Device is FFS | Agreed |
| 64 | 7.2 | [**S1-230210**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230210.zip) | China Mobile Com. Corporation | pCR on update service requirements and KPI table for clause 5.13 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | [Revision of S1-223481](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393807) |  | Revised to S1-230563 |
| 65 | 7.2 | S1-230563 | OPPO, vivo | Consolidation on Functional Requirement of Ambient IoT | pCR | 22.840 |  |  |  | 1.0.0 | Rel-19 | **FS\_AmbientIoT** | Replaces S1-230163 | Revision of S1-230210. | Revised to S1-230612 |
| 66 | 7.2 | S1-230612 | China Mobile | pCR on update service requirements and KPI table for clause 5.13 |  |  |  |  |  |  |  |  |  | Revision of S1-230210. Revision of S1-230563. | Revised to S1-230747 |
| 67 | 7.2 | S1-230747 | China Mobile | pCR on update service requirements and KPI table for clause 5.13 |  |  |  |  |  |  |  |  | Replaces S1-230612 | Same changes as for 699 | Revised to S1-230761 |
| 68 | 7.2 | S1-230761 | China Mobile | pCR on update service requirements and KPI table for clause 5.13 |  |  |  |  |  |  |  |  | Replaces S1-230747 | Revision of S1-230210. Revision of S1-230563. Revision of S1-230612. Revision of S1-230747. Req3 we keep the original | Agreed |
| 69 | 7.2 | [**S1-230231**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230231.zip) | Huawei Technologies France | Pseudo-CR to update KPI in clause 5.5 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | add Communication Service Availability KPI to use case intralogistics in automobile manufacturing clause 5.5 |  | Agreed |
| 70 | 7.2 | [**S1-230232**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230232.zip) | Huawei Technologies France | Pseudo-CR add KPI to use case automated supply distribution Clause 5.16 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Pseudo-CR add Communication Service Availability KPI to use case automated supply distribution Clause 5.16 |  | Revised to S1-230613 |
| 71 | 7.2 | S1-230613 | Huawei | Pseudo-CR add KPI to use case automated supply distribution Clause 5.16 |  |  |  |  |  |  |  |  |  | Revision of S1-230232. | Agreed |
| 72 | 7.2 | [**S1-230234**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230234.zip) | Huawei Technologies France | Pseudo-CR add Communication Service Availability KPI and Communication Range KPI to use case smart grazing dairy farming Clause 5.22 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Pseudo-CR add Communication Service Availability KPI and Communication Range KPI to use case smart grazing dairy farming Clause 5.22 |  | Revised to S1-230614 |
| 73 | 7.2 | S1-230614 | Huawei | Pseudo-CR add Communication Service Availability KPI and Communication Range KPI to use case smart grazing dairy farming Clause 5.22 |  |  |  |  |  |  |  |  |  | Revision of S1-230234. | Agreed |
| 74 | 7.2 | [**S1-230237**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230237.zip) | Huawei Technologies France | Pseudo-CR add KPIs to use case smart manhole cover safety monitoring Clause 5.24 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Pseudo-CR add Communication Service Availability KPI and Communication Range KPI to use case smart manhole cover safety monitoring Clause 5.24 |  | Revised to S1-230615 |
| 75 | 7.2 | S1-230615 | Huawei | Pseudo-CR add KPIs to use case smart manhole cover safety monitoring Clause 5.24 |  |  |  |  |  |  |  |  |  | Revision of S1-230237. | Agreed |
| 76 | 7.2 | [**S1-230238**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230238.zip) | Xiaomi | Update to Use Case on Ambient IoT for Museum Guide | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 |
| 77 | 7.2 | [**S1-230239**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230239.zip) | Huawei Technologies France | Pseudo-CR add KPIs to use case smart bridge health monitoring Clause 5.25 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Pseudo-CR add Communication Service Availability KPI and Communication Range KPI to use case smart bridge health monitoring Clause 5.25 |  | Revised to S1-230616 |
| 78 | 7.2 | S1-230616 | Huawei | Pseudo-CR add KPIs to use case smart bridge health monitoring Clause 5.25 |  |  |  |  |  |  |  |  |  | Revision of S1-230239. | Agreed |
| 79 | 7.2 | [**S1-230293**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230293.zip) | VODAFONE Group Plc | Pseudo-CR on update to clause 5.26 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Update on clause 5.26 to add the KPI table. |  | Revised to S1-230621 |
| 80 | 7.2 | S1-230621 | VODAFONE | Pseudo-CR on update to clause 5.26 |  |  |  |  |  |  |  |  |  | Revision of S1-230293.  Huawei supports removing Note 2. | Agreed |
| 81 | 7.2 | [**S1-230298**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230298.zip) | Intel | Update to section-5.19 – Resolving EN Note | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 S1-230528 |
| 82 | 7.2 | S1-230528 | Intel | Update to section-5.19 Resolving EN Note |  |  |  |  |  |  |  |  |  | Revision of S1-230298. | Revised to S1-230617 |
| 83 | 7.2 | S1-230617 | Intel | Update to section-5.19 Resolving EN Note |  |  |  |  |  |  |  |  |  | Revision of S1-230298. Revision of S1-230528.  Fix units | Revised to S1-230665 |
| 84 | 7.2 | S1-230665 | Intel | Update to section-5.19 Resolving EN Note |  |  |  |  |  |  |  |  | Replaces S1-230617 | Revision of S1-230298. Revision of S1-230528. Revision of S1-230617. | Agreed |
| 85 | 7.2 | [**S1-230305**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230305.zip) | KPN | Pseudo-CR on store and forward messaging for Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 an update (with additional requirement) for the use case 5.27 use case on end-to-end logistics. |  | Revised to S1-230618 |
| 86 | 7.2 | S1-230618 | KPN | Pseudo-CR on store and forward messaging for Ambient IoT |  |  |  |  |  |  |  |  |  | Revision of S1-230305. | Revised to S1-230666 |
| 87 | 7.2 | S1-230666 | KPN | Pseudo-CR on store and forward messaging for Ambient IoT |  |  |  |  |  |  |  |  | Replaces S1-230618 | Revision of S1-230305. Revision of S1-230618.  Huawei: add "secure messaging is FFS" (in req 5) | Revised to S1-230763 |
| 88 | 7.2 | S1-230763 | KPN | Pseudo-CR on store and forward messaging for Ambient IoT |  |  |  |  |  |  |  |  | Replaces S1-230666 | Revision of S1-230305. Revision of S1-230618. Revision of S1-230666. Req#5 is FFS | Agreed |
| 89 | 7.2 | [**S1-230023**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230023.zip) | InterDigital | Clarifications of the use case on End-to-End Logistics | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Merged into S1-230619 |
| 90 | 7.2 | [**S1-230307**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230307.zip) | KPN | Pseudo-CR on definition of Ambient IoT device triggering | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 addresses an Editor’s Note in clause 5.27 |  | Revised to S1-230517 |
| 91 | 7.2 | S1-230517 | KPN | Pseudo-CR on definition of Ambient IoT device triggering |  |  |  |  |  |  |  |  |  | Revision of S1-230307. | Revised to S1-230619 |
| 92 | 7.2 | S1-230619 | KPN | Pseudo-CR on definition of Ambient IoT device triggering |  |  |  |  |  |  |  |  |  | Revision of S1-230307. Revision of S1-230517. | Agreed |
| 93 | 7.2 | [**S1-230309**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230309.zip) | KPN | Pseudo-CR to clarify terminology in clause 5.28 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 addresses an editor’s note in clause 5.28. |  | Revised to S1-230620 |
| 94 | 7.2 | S1-230620 | KPN | Pseudo-CR to clarify terminology in clause 5.28 |  |  |  |  |  |  |  |  |  | Revision of S1-230309. | Revised to S1-230667 |
| 95 | 7.2 | S1-230667 | KPN | Pseudo-CR to clarify terminology in clause 5.28 |  |  |  |  |  |  |  |  | Replaces S1-230620 | Revision of S1-230309. Revision of S1-230620. | Revised to S1-230764 |
| 96 | 7.2 | S1-230764 | KPN | Pseudo-CR to clarify terminology in clause 5.28 |  |  |  |  |  |  |  |  | Replaces S1-230667 | ffs to be added | Revised to S1-230800 |
| 97 | 7.2 | S1-230800 | KPN | Pseudo-CR to clarify terminology in clause 5.28 |  |  |  |  |  |  |  |  | Replaces S1-230764 | Revision of S1-230309. Revision of S1-230620. Revision of S1-230667. Revision of S1-230764. Editors note : second req FFS No presentation | Agreed |
| 98 | 7.2 | [**S1-230026**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230026.zip) | InterDigital | Update to the use case on Pressure Powered Switch | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Merge into S1-230620 |
| 100 | 7.2 | [**S1-230163**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230163.zip) | OPPO, vivo | Consolidation on Functional Requirement of Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | It is proposed to put the functional requirements into 6 subclauses. Then make CPR mapping table for consolidation under each subclause. | 622 used in the end for revision of 163 | Revised to S1-230622 |
| 101 | 7.2 | S1-230622 | OPPO, vivo | Consolidation on Functional Requirement of Ambient IoT |  |  |  |  |  |  |  |  |  | Revision of S1-230163. | Revised to S1-230762 |
| 102 | 7.2 | S1-230762 | OPPO, vivo | Consolidation on Functional Requirement of Ambient IoT |  |  |  |  |  |  |  |  | Replaces S1-230622 | Ericsson and Nokia prefer to note the document at this meeting and have it as a basis for the next meeting.  All companies acknowledge the tremendous efforts from the rapporteur.  This is to be kept as a basis for future discussion, A revised version, without any CPR, is provided for agreement at this meeting | Revised to S1-230765 |
| 103 | 7.2 | S1-230765 | OPPO, vivo | Consolidation on Functional Requirement of Ambient IoT |  |  |  |  |  |  |  |  | Replaces S1-230762 | Without any CPR | Agreed |
| 104 | 7.2 | [**S1-230165**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230165.zip) | OPPO (chongqing) Intelligence | Consolidation on KPI for Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**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 provides a Text Proposal for the consolidation on KPI for Ambient IoT. |  | Revised to S1-230623 |
| 105 | 7.2 | S1-230623 | OPPO | Consolidation on KPI for Ambient IoT |  |  |  |  |  |  |  |  |  | Revision of S1-230165.  This is the basis for future discussions. | Noted |
| 106 | 7.2 | [**S1-230212**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230212.zip) | China Mobile Com. Corporation | Consolidated KPI for Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Merge into S1-230623 |
| 108 | 7.2 | [**S1-230211**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230211.zip) | China Mobile Com. Corporation | Annex for Communication Modes of Low Power Consumption | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Noted |
| 01 | 7.2.1 | S1-230720 | Rapporteur (OPPO) | Cover sheet of the TR22.840 for approval |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 02 | 7.2.1 | S1-230721 | Rapporteur (OPPO) | TR 22.840v1.1.0 Study on Ambient power-enabled Internet of Things |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.3 | [**S1-230182**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230182.zip) | Huawei, Samsung, Lenovo | Pseudo-CR on quality improvement in clauses 1 and 2 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  | Rapporteur will reuse reference 29 for another reference information. | Agreed |
| 04 | 7.3 | [**S1-230273**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230273.zip) | Samsung, Huawei | Pseudo-CR on Alignment of TR 22.856 Terminology | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Terminology alignment for most of 22.856 is in this pCR. Some clauses are handled in other pCRs to avoid clashes. |  | Revised to S1-230402 |
| 05 | 7.3 | S1-230402 | Samsung, Huawei | Pseudo-CR on Alignment of TR 22.856 Terminology |  |  |  |  |  |  |  |  |  | Revision of S1-230273.  No first names should be used, company names should be used instead.  A global editor's note to be put about "immersive". | Revised to S1-230486 |
| 06 | 7.3 | S1-230486 | Samsung, Huawei | Pseudo-CR on Alignment of TR 22.856 Terminology |  |  |  |  |  |  |  |  | Replaces S1-230402 | Revision of S1-230273. Revision of S1-230402. Including editors note about immersive.  An editor's note will be added in the terminology section, to say that the term "avatar" will be added | Revised to S1-230774 |
| 07 | 7.3 | S1-230774 | Samsung, Huawei | Pseudo-CR on Alignment of TR 22.856 Terminology |  |  |  |  |  |  |  |  | Replaces S1-230486 | Revision of S1-230273. Revision of S1-230402. Including editors note about immersive. Revision of S1-230486. Include editors note : The term avatar will be added. | Agreed |
| 08 | 7.3 | [**S1-230257**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230257.zip) | Samsung | Pseudo-CR on Update of 4: Overview | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This pCR suggests updates for the overview of 22.856. |  | Not Handled |
| 10 | 7.3 | [**S1-230065**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230065.zip) | Nokia, Nokia Shanghai Bell | Use-case proposal on Immersive Tele-Operation in Hazardous Environment | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This document proposes a new use-case to TR 22.856 |  | Revised to S1-230327 |
| 11 | 7.3 | S1-230327 | Nokia, Nokia Shanghai Bell | Use-case proposal on Immersive Tele-Operation in Hazardous Environment | pCR | 22.856 |  |  |  | 0.3.0 | Rel-19 | FS\_Metaverse | Replaces S1-230065 | Revision of S1-230065. | Revised to S1-230403 |
| 12 | 7.3 | S1-230403 | Nokia, Nokia Shanghai Bell | Use-case proposal on Immersive Tele-Operation in Hazardous Environment |  |  |  |  |  |  |  |  |  | Revision of S1-230065. Revision of S1-230327. | Revised to S1-230734 |
| 13 | 7.3 | S1-230734 | Nokia, Nokia Shanghai Bell | Use-case proposal on Immersive Tele-Operation in Hazardous Environment |  |  |  |  |  |  |  |  | Replaces S1-230403 | Revision of S1-230065. Revision of S1-230327. Revision of S1-230403. | Revised to S1-230743 |
| 14 | 7.3 | S1-230743 | Nokia, Nokia Shanghai Bell | Use-case proposal on Immersive Tele-Operation in Hazardous Environment |  |  |  |  |  |  |  |  | Replaces S1-230734 | Revision of S1-230065. Revision of S1-230327. Revision of S1-230403. Revision of S1-230734. | Agreed |
| 15 | 7.3 | [**S1-230114**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230114.zip) | Intel | Use case on Compute Offload for Metaverse MMO Gaming | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230338 |
| 16 | 7.3 | S1-230338 | Intel | Use case on Compute Offload for Metaverse MMO Gaming | pCR | 22.856 |  |  |  | 0.3.0 | Rel-19 | FS\_Metaverse | Replaces S1-230114 | Revision of S1-230114. | Revised to S1-230404 |
| 17 | 7.3 | S1-230404 | Intel | Use case on Compute Offload for Metaverse MMO Gaming |  |  |  |  |  |  |  |  |  | Revision of S1-230114. Revision of S1-230338. | Withdrawn |
| 18 | 7.3 | [**S1-230125**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230125.zip) | Rakuten Mobile, Inc | Use case of Virtual Emergency Drill over 5G Metaverse | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This contribution proposes a new use case for FS\_Metaverse |  | Revised to S1-230405 |
| 19 | 7.3 | S1-230405 | Rakuten | Use case of Virtual Emergency Drill over 5G Metaverse |  |  |  |  |  |  |  |  |  | Revision of S1-230125.  Samsung (Rapporteur), Qualcomm: "virtual 5GS" not defined.  NSCS: "suitable" is not adding information here, it can be removed | Revised to S1-230487 |
| 20 | 7.3 | S1-230487 | Rakuten | Use case of Virtual Emergency Drill over 5G Metaverse |  |  |  |  |  |  |  |  | Replaces S1-230405 | Revision of S1-230125. Revision of S1-230405.  "virtual 5G system" and "suitable" to be removed | Revised to S1-230766 |
| 21 | 7.3 | S1-230766 | Rakuten | Use case of Virtual Emergency Drill over 5G Metaverse |  |  |  |  |  |  |  |  | Replaces S1-230487 | Revision of S1-230125. Revision of S1-230405. Revision of S1-230487. Remove suitable, replace editors note with 1 editors note these 2 requirements are FFS | Agreed |
| 22 | 7.3 | [**S1-230145**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230145.zip) | NTT DOCOMO INC. | New use case - "Device independent mobile metaverse experience" | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230400 |
| 23 | 7.3 | S1-230400 | NTT DOCOMO | New use case - "Device independent mobile metaverse experience" |  |  |  |  |  |  |  |  |  | Revision of S1-230145. | Revised to S1-230406 |
| 24 | 7.3 | S1-230406 | NTT DOCOMO | New use case - "Device independent mobile metaverse experience" |  |  |  |  |  |  |  |  |  | Revision of S1-230145. Revision of S1-230400.  Rapporteur: PR2 too ambiguous and should be deleted  Qualcomm, Nokia: PR1 also not so clear | Revised to S1-230488 |
| 25 | 7.3 | S1-230488 | NTT DOCOMO | New use case - "Device independent mobile metaverse experience" |  |  |  |  |  |  |  |  | Replaces S1-230406 | Revision of S1-230145. Revision of S1-230400. Revision of S1-230406. | Noted |
| 26 | 7.3 | [**S1-230169**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230169.zip) | vivo | Pseudo-CR on use case of media negotiation to achieve media delivery optimization | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230407 |
| 27 | 7.3 | S1-230407 | vivo | Pseudo-CR on use case of media negotiation to achieve media delivery optimization |  |  |  |  |  |  |  |  |  | Revision of S1-230169.  Still not stable (Rapporteur, Qualcomm, etc) | Revised to S1-230490 |
| 28 | 7.3 | S1-230490 | vivo | Pseudo-CR on use case of media negotiation to achieve media delivery optimization |  |  |  |  |  |  |  |  | Replaces S1-230407 | Revision of S1-230169. Revision of S1-230407. | Withdrawn |
| 29 | 7.3 | [**S1-230170**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230170.zip) | vivo | Pseudo-CR on use case of Metaverse Live Concert | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230408 |
| 30 | 7.3 | S1-230408 | vivo | Pseudo-CR on use case of Metaverse Live Concert |  |  |  |  |  |  |  |  |  | Revision of S1-230170.  One global editor's note to be added to state in the terminology: it will be revised to  Ericsson: "group communication" has a specific meaning. Different words should be used when not in the usual concept (e.g. "communication between groups")  Formatting is wrong (wrong styles) | Revised to S1-230491 |
| 31 | 7.3 | S1-230491 | vivo | Pseudo-CR on use case of Metaverse Live Concert |  |  |  |  |  |  |  |  | Replaces S1-230408 | Revision of S1-230170. Revision of S1-230408. | Agreed |
| 32 | 7.3 | [**S1-230192**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230192.zip) | China Mobile | pCR Metaverse use case of cooperation between metaverse service and network | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | [Revision of S1-223620](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393946) |  | Revised to S1-230409 |
| 33 | 7.3 | S1-230409 | China Mobile | pCR Metaverse use case of cooperation between metaverse service and network |  |  |  |  |  |  |  |  |  | Revision of S1-230192.  Several points still to be clarified: Granularity, latency (Nokia, Huawei, Qualcomm) | Revised to S1-230492 |
| 34 | 7.3 | S1-230492 | China Mobile | pCR Metaverse use case of cooperation between metaverse service and network |  |  |  |  |  |  |  |  | Replaces S1-230409 | Revision of S1-230192. Revision of S1-230409. | Agreed |
| 35 | 7.3 | [**S1-230198**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230198.zip) | China Mobile,Huawei | Pseudo-CR on New Use Case on Authorization of Avatar Usage Rights | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230410 |
| 36 | 7.3 | S1-230410 | China Mobile, Huawei | Pseudo-CR on New Use Case on Authorization of Avatar Usage Rights |  |  |  |  |  |  |  |  |  | Revision of S1-230198.  Wrong version uploaded.  Note 1 should be removed (out of context). | Revised to S1-230493 |
| 37 | 7.3 | S1-230493 | China Mobile, Huawei | Pseudo-CR on New Use Case on Authorization of Avatar Usage Rights |  |  |  |  |  |  |  |  | Replaces S1-230410 | Revision of S1-230198. Revision of S1-230410.  "in real world" to be deleted at the end of Req 1.  Last 3 req have to be marked FFS. | Revised to S1-230767 |
| 38 | 7.3 | S1-230767 | China Mobile, Huawei | Pseudo-CR on New Use Case on Authorization of Avatar Usage Rights |  |  |  |  |  |  |  |  | Replaces S1-230493 | Revision of S1-230198. Revision of S1-230410. Revision of S1-230493. [PR 5.x.6-1] Subject to regulatory requirements, user s consent and operator s policy, the 5G system shall support mechanisms to identify an avatars and associate an avatar with a subscriber (i.e. the owner of the avatar). Req#4,5,6 are FFS | Agreed |
| 39 | 7.3 | [**S1-230246**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230246.zip) | CableLabs | New Use Case on Metaverse Multi Access Scenario | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | pCR introduces a new use case and requirements for Metaverse traffic routed or steered over both 3GPP and non-3GPP access |  | Revised to S1-230411 |
| 40 | 7.3 | S1-230411 | CableLabs | New Use Case on Metaverse Multi Access Scenario |  |  |  |  |  |  |  |  |  | Revision of S1-230246.  Note: CableLabs (Omkar) participation was remote. | Agreed |
| 41 | 7.3 | [**S1-230253**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230253.zip) | China Telecom | New Use Case on Location-restricted Access | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230412 |
| 42 | 7.3 | S1-230412 | China Telecom | New Use Case on Location-restricted Access |  |  |  |  |  |  |  |  |  | Revision of S1-230253.  Note: China Telecom (Yinglin) participation was remote.  When presenting, prefer to reword as:  "[PR 5.x.6-2] The 5G system shall be able for users to define conditions (e.g. based on user location information) associated with the use and management of the User Identity specific information in their digital asset containers."  Qualcomm: both the new version and the old version of the PR are confusing. | Revised to S1-230494 |
| 43 | 7.3 | S1-230494 | China Telecom | New Use Case on Location-restricted Access |  |  |  |  |  |  |  |  | Replaces S1-230412 | Revision of S1-230253. Revision of S1-230412.  "these 2 PR are FFS" to be added  changes on changes to be removed. | Revised to S1-230768 |
| 44 | 7.3 | S1-230768 | China Telecom | New Use Case on Location-restricted Access |  |  |  |  |  |  |  |  | Replaces S1-230494 | Revision of S1-230253. Revision of S1-230412. Revision of S1-230494. Clean up changes, both reqs are FFS | Agreed |
| 45 | 7.3 | [**S1-230266**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230266.zip) | Samsung | Pseudo-CR on 5.X: New use case on IMS-based Avatar Call Support for Accessibility | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This use case considers the potential for use of IMS 3D Avatar Call to improve the possibilities for accessible communication and adds charging requirements. |  | Revised to S1-230413 |
| 46 | 7.3 | S1-230413 | Samsung | Pseudo-CR on 5.X: New use case on IMS-based Avatar Call Support for Accessibility |  |  |  |  |  |  |  |  |  | Revision of S1-230266.  Wrong version uploaded | Revised to S1-230495 |
| 47 | 7.3 | S1-230495 | Samsung | Pseudo-CR on 5.X: New use case on IMS-based Avatar Call Support for Accessibility |  |  |  |  |  |  |  |  | Replaces S1-230413 | Revision of S1-230266. Revision of S1-230413.  Huawei supports.  Req 1:M"Such that" to be removed as well as "in a standard form" | Revised to S1-230769 |
| 48 | 7.3 | S1-230769 | Samsung | Pseudo-CR on 5.X: New use case on IMS-based Avatar Call Support for Accessibility |  |  |  |  |  |  |  |  | Replaces S1-230495 | Revision of S1-230266. Revision of S1-230413. Revision of S1-230495. [P.R.-5.W.6-1] The 5G system shall support the encoding of sensor data capturing the facial expression and movement and gestures of a person as part of the avatar encoding.+ Huawei as supporting company | Agreed |
| 49 | 7.3 | [**S1-230268**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230268.zip) | Samsung | Pseudo-CR on 5.X: New Localized Mobile Metaverse Service Overload Handling | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This pCR proposes to introduce a new use case on Metaverse services and overloading the network in the context of an AR augmented entertainment theme park and adds charging requirements. |  | Revised to S1-230415 |
| 50 | 7.3 | S1-230415 | Samsung | Pseudo-CR on 5.X: New Localized Mobile Metaverse Service Overload Handling |  |  |  |  |  |  |  |  |  | Revision of S1-230268. | Revised to S1-230496 |
| 51 | 7.3 | S1-230496 | Samsung | Pseudo-CR on 5.X: New Localized Mobile Metaverse Service Overload Handling |  |  |  |  |  |  |  |  | Replaces S1-230415 | Revision of S1-230268. Revision of S1-230415.  "identified" to be removed | Revised to S1-230770 |
| 52 | 7.3 | S1-230770 | Samsung | Pseudo-CR on 5.X: New Localized Mobile Metaverse Service Overload Handling |  |  |  |  |  |  |  |  | Replaces S1-230496 | Revision of S1-230268. Revision of S1-230415. Revision of S1-230496. | Revised to S1-230796 |
| 53 | 7.3 | S1-230796 | Samsung | Pseudo-CR on 5.X: New Localized Mobile Metaverse Service Overload Handling |  |  |  |  |  |  |  |  | Replaces S1-230770 | Revision of S1-230268. Revision of S1-230415. Revision of S1-230496. Revision of S1-230770. | Agreed |
| 55 | 7.3 | [**S1-230029**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230029.zip) | InterDigital | Update to the Use Case for supporting Metaverse for Critical HealthCare | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230416 |
| 56 | 7.3 | S1-230416 | InterDigital | Update to the Use Case for supporting Metaverse for Critical HealthCare |  |  |  |  |  |  |  |  |  | Revision of S1-230029. | Noted |
| 57 | 7.3 | [**S1-230030**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230030.zip) | InterDigital | Update to the Use Case on Autonomous Virtual Alter Ego | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230417 |
| 58 | 7.3 | S1-230417 | InterDigital | Update to the Use Case on Autonomous Virtual Alter Ego |  |  |  |  |  |  |  |  |  | Revision of S1-230030.  Qualcomm: third PR still unclear | Revised to S1-230497 |
| 59 | 7.3 | S1-230497 | InterDigital | Update to the Use Case on Autonomous Virtual Alter Ego |  |  |  |  |  |  |  |  | Replaces S1-230417 | Revision of S1-230030. Revision of S1-230417.  Numbering issue, other typos | Revised to S1-230771 |
| 60 | 7.3 | S1-230771 | InterDigital | Update to the Use Case on Autonomous Virtual Alter Ego |  |  |  |  |  |  |  |  | Replaces S1-230497 | Revision of S1-230030. Revision of S1-230417. Revision of S1-230497. Correctly typos and numbering | Agreed |
| 61 | 7.3 | [**S1-230032**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230032.zip) | Ericsson | Pseudo-CR on simplify the privacy requirements and remove EN | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 text in the two requirements in chapter 5.19.6 has been simplified in order to remove the editor’s note. No conceptual changes are intended for the two requirements. |  | Revised to S1-230341 |
| 62 | 7.3 | S1-230341 | Ericsson | Pseudo-CR on simplify the privacy requirements and remove EN | pCR | 22.856 |  |  |  | 0.3.0 | Rel-19 | FS\_Metaverse | Replaces S1-230032 | Revision of S1-230032. | Revised to S1-230425 |
| 63 | 7.3 | S1-230425 | Ericsson | Pseudo-CR on simplify the privacy requirements and remove EN |  |  |  |  |  |  |  |  |  | Revision of S1-230032. Revision of S1-230341.  Qualcomm, NSCS: the wording is unclear | Revised to S1-230498 |
| 64 | 7.3 | S1-230498 | Ericsson | Pseudo-CR on simplify the privacy requirements and remove EN |  |  |  |  |  |  |  |  | Replaces S1-230425 | Revision of S1-230032. Revision of S1-230341. Revision of S1-230425. | Agreed |
| 65 | 7.3 | [**S1-230064**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230064.zip) | Nokia, Nokia Shanghai Bell | Revision of use-case 5.7 Immersive AR experience | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This document proposes a revision of use-case 5.7 |  | Revised to S1-230426 |
| 66 | 7.3 | S1-230426 | Nokia, Nokia Shanghai Bell | Revision of use-case 5.7 Immersive AR experience |  |  |  |  |  |  |  |  |  | Revision of S1-230064. | Revised to S1-230485 |
| 67 | 7.3 | S1-230485 | Nokia, Nokia Shanghai Bell | Revision of use-case 5.7 Immersive AR experience |  |  |  |  |  |  |  |  | Replaces S1-230426 | Wrong styles used.  Qualcomm: more re-wording needed. | Revised to S1-230499 |
| 68 | 7.3 | S1-230499 | Nokia, Nokia Shanghai Bell | Revision of use-case 5.7 Immersive AR experience |  |  |  |  |  |  |  |  | Replaces S1-230485 | Revision of S1-230064. Revision of S1-230426. Revision of S1-230485.  Speed to be changed to FFS in the 2nd table. | Revised to S1-230772 |
| 69 | 7.3 | S1-230772 | Nokia, Nokia Shanghai Bell | Revision of use-case 5.7 Immersive AR experience |  |  |  |  |  |  |  |  | Replaces S1-230499 | Revision of S1-230064. Revision of S1-230426. Revision of S1-230485. Revision of S1-230499. Second table, UE Speed is FFS | Agreed |
| 70 | 7.3 | [**S1-230091**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230091.zip) | China Mobile,Huawei, Orange | 22856-PCR on updates to clause 5.16 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230427 |
| 71 | 7.3 | S1-230427 | China Mobile, Huawei, Orange | 22856-PCR on updates to clause 5.16 |  |  |  |  |  |  |  |  |  | Revision of S1-230091.  Some typos.  Nokia: "Regulatory requirements" should not be deleted. | Revised to S1-230567 |
| 72 | 7.3 | S1-230567 | China Mobile, Huawei, Orange | 22856-PCR on updates to clause 5.16 |  |  |  |  |  |  |  |  | Replaces S1-230427 | Revision of S1-230091. Revision of S1-230427. | Revised to S1-230682 |
| 73 | 7.3 | S1-230682 | China Mobile, Huawei, Orange | 22856-PCR on updates to clause 5.16 |  |  |  |  |  |  |  |  | Replaces S1-230567 | Revision of S1-230091. Revision of S1-230427. Revision of S1-230567. | Agreed |
| 74 | 7.3 | [**S1-230144**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230144.zip) | NTT DOCOMO INC. | Update of use case on Work delegation to autonomous virtual alter ego | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230401 |
| 75 | 7.3 | S1-230401 | NTT DOCOMO | Update of use case on Work delegation to autonomous virtual alter ego |  |  |  |  |  |  |  |  |  | Revision of S1-230144. | Revised to S1-230428 |
| 76 | 7.3 | S1-230428 | NTT DOCOMO | Update of use case on Work delegation to autonomous virtual alter ego |  |  |  |  |  |  |  |  |  | Revision of S1-230144. Revision of S1-230401.  Nokia: potential conflicts with PR from other contributions (in particular 497). A merge is possible.  NSCS: the last part about charging is not useful.  Editor's note on the 2nd PR was added by mistake, to be deleted. | Revised to S1-230568 |
| 77 | 7.3 | S1-230568 | NTT DOCOMO | Update of use case on Work delegation to autonomous virtual alter ego |  |  |  |  |  |  |  |  | Replaces S1-230428 | Revision of S1-230144. Revision of S1-230401. Revision of S1-230428.  The terminology has to be aligned, to be done by the rapporteur.  A note will be added to state that the term "avatar" will be defined. | Agreed |
| 78 | 7.3 | [**S1-230153**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230153.zip) | CATT | pCR on updates of clause 5.6 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230429 |
| 79 | 7.3 | S1-230429 | CATT | pCR on updates of clause 5.6 |  |  |  |  |  |  |  |  |  | Revision of S1-230153. | Revised to S1-230489 |
| 80 | 7.3 | S1-230489 | CATT | pCR on updates of clause 5.6 |  |  |  |  |  |  |  |  | Replaces S1-230429 | Note: CATT (Qing) participation was remote.  Nokia: accuracy: this is to be rephrased.  Qualcomm: Note to be clarified. | Revised to S1-230569 |
| 81 | 7.3 | S1-230569 | CATT | pCR on updates of clause 5.6 |  |  |  |  |  |  |  |  | Replaces S1-230489 | Revision of S1-230153. Revision of S1-230429. Revision of S1-230489.  Positioning accuracy to be changed to NA | Revised to S1-230773 |
| 82 | 7.3 | S1-230773 | CATT | pCR on updates of clause 5.6 |  |  |  |  |  |  |  |  | Replaces S1-230569 | Revision of S1-230153. Revision of S1-230429. Revision of S1-230489. Revision of S1-230569. | Withdrawn |
| 83 | 7.3 | [**S1-230171**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230171.zip) | vivo | Pseudo-CR on Update of use case on synchronization | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**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 S1-230430 |
| 84 | 7.3 | S1-230430 | vivo | Pseudo-CR on Update of use case on synchronization |  |  |  |  |  |  |  |  |  | Revision of S1-230171.  Nokia: wrong PR numbering.  Wrong header  Qualcomm: typos just above 5.8, problem with the PR | Revised to S1-230570 |
| 85 | 7.3 | S1-230570 | vivo | Pseudo-CR on Update of use case on synchronization |  |  |  |  |  |  |  |  | Replaces S1-230430 | Revision of S1-230171. Revision of S1-230430. | Agreed |
| 86 | 7.3 | [**S1-230172**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230172.zip) | vivo | Pseudo-CR on update the power consumption for Immersive AR Interactive Experience | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Noted |
| 87 | 7.3 | [**S1-230233**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230233.zip) | OTD\_US | Pseudo-CR to update new requirements for identity management and privacy awareness for metaverse services | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This contribution proposes the addition of new requirements for identity management and privacy awareness for regulatory services. |  | Revised to S1-230431 |
| 88 | 7.3 | S1-230431 | OTD\_US | Pseudo-CR to update new requirements for identity management and privacy awareness for metaverse services |  |  |  |  |  |  |  |  |  | Revision of S1-230233.  Wrong header  Ericsson: 5.19.6 to be deleted since there is no change on this section  Nkia: "digital entity" not updated everywhere | Revised to S1-230576 |
| 89 | 7.3 | S1-230576 | OTD\_US | Pseudo-CR to update new requirements for identity management and privacy awareness for metaverse services |  |  |  |  |  |  |  |  | Replaces S1-230431 | Revision of S1-230233. Revision of S1-230431. | Merged into 0568 |
| 90 | 7.3 | [**S1-230258**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230258.zip) | Samsung | Pseudo-CR on Update of 5.1: Localized Mobile Metaverse Service Use Case | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Abstract: Updates use case 5.1 to add new requirements and to align terminology |  | Revised to S1-230432 |
| 91 | 7.3 | S1-230432 | Samsung | Pseudo-CR on Update of 5.1: Localized Mobile Metaverse Service Use Case |  |  |  |  |  |  |  |  |  | Revision of S1-230258.  "presentation"->"rendering" | Revised to S1-230572 |
| 92 | 7.3 | S1-230572 | Samsung | Pseudo-CR on Update of 5.1: Localized Mobile Metaverse Service Use Case |  |  |  |  |  |  |  |  | Replaces S1-230432 | Revision of S1-230258. Revision of S1-230432. | Agreed |
| 93 | 7.3 | [**S1-230259**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230259.zip) | Samsung, Tencent, Tencent Cloud, Huawei | 22.856 pCR: 5.2 and 5.6 Terminology and Clean Up | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This pCR proposes changes to TR 22.856 5.2 and 5.6. |  | Revised to S1-230433 |
| 94 | 7.3 | S1-230433 | Samsung, Tencent, Tencent Cloud, Huawei | 22.856 pCR: 5.2 and 5.6 Terminology and Clean Up |  |  |  |  |  |  |  |  |  | Revision of S1-230259. | Agreed |
| 95 | 7.3 | [**S1-230261**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230261.zip) | Samsung | Pseudo-CR on Update of 5.4: Localized Mobile Metaverse Service Use Case | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Updates use case 5.4 to add a new requirement for charging and correct some editorial issues. |  | Revised to S1-230434 |
| 96 | 7.3 | S1-230434 | Samsung | Pseudo-CR on Update of 5.4: Localized Mobile Metaverse Service Use Case |  |  |  |  |  |  |  |  |  | Revision of S1-230261. | Revised to S1-230573 |
| 97 | 7.3 | S1-230573 | Samsung | Pseudo-CR on Update of 5.4: Localized Mobile Metaverse Service Use Case |  |  |  |  |  |  |  |  | Replaces S1-230434 | Revision of S1-230261. Revision of S1-230434. | Agreed |
| 98 | 7.3 | [**S1-230262**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230262.zip) | Samsung | Pseudo-CR on Update of 5.5: Spatial Mapping and Localization Enabler Use Case | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Removes ENs that remain in the use case and adds charging requirements. |  | Revised to S1-230435 |
| 99 | 7.3 | S1-230435 | Samsung | Pseudo-CR on Update of 5.5: Spatial Mapping and Localization Enabler Use Case |  |  |  |  |  |  |  |  |  | Revision of S1-230262.  Note 2 to be removed | Revised to S1-230574 |
| 100 | 7.3 | S1-230574 | Samsung | Pseudo-CR on Update of 5.5: Spatial Mapping and Localization Enabler Use Case |  |  |  |  |  |  |  |  | Replaces S1-230435 | Revision of S1-230262. Revision of S1-230435. | Agreed |
| 101 | 7.3 | [**S1-230263**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230263.zip) | Samsung | 22.856 pCR: update to include an additional requirement for 5.8 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This pCR proposes an additional requirement for end-to-end QoS monitoring and enforcement to clause 5.8 of 22.856 0.3.0. |  | Noted |
| 102 | 7.3 | [**S1-230264**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230264.zip) | Samsung, Huawei | 22.856 pCR: editorial clean up proposals for 5.10 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This pCR proposes editorial improvement to clause 5.10 of 22.856 0.3.0. |  | Revised to S1-230436 |
| 103 | 7.3 | S1-230436 | Samsung, Huawei | 22.856 pCR: editorial clean up proposals for 5.10 |  |  |  |  |  |  |  |  |  | Revision of S1-230264. | Agreed |
| 104 | 7.3 | [**S1-230265**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230265.zip) | Samsung | Pseudo-CR on Update of 5.11: Use case of IMS-based 3D Avatar Communication | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This pCR updates use case 5.11 to further clarify the use of IMS-based 3D avatar communication and adds charging requirements. |  | Revised to S1-230437 |
| 105 | 7.3 | S1-230437 | Samsung | Pseudo-CR on Update of 5.11: Use case of IMS-based 3D Avatar Communication |  |  |  |  |  |  |  |  |  | Revision of S1-230265.  PR3 : "used produces" -> "used to produce"  Nokia's name to be removed | Revised to S1-230575 |
| 106 | 7.3 | S1-230575 | Samsung | Pseudo-CR on Update of 5.11: Use case of IMS-based 3D Avatar Communication |  |  |  |  |  |  |  |  | Replaces S1-230437 | Revision of S1-230265. Revision of S1-230437. | Agreed |
| 108 | 7.3 | [**S1-230247**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230247.zip) | China Telecom, Orange, China Mobile, Huawei | Merged potential service requirements on digital asset management | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Noted |
| 109 | 7.3 | [**S1-230229**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230229.zip) | OTD\_US | Pseudo-CR to add considerations for Mission Critical and other priority services | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This contribution proposes the addition of considerations for Mission Critical and other priority services. |  | Revised to S1-230438 |
| 110 | 7.3 | S1-230438 | OTD\_US | Pseudo-CR to add considerations for Mission Critical and other priority services |  |  |  |  |  |  |  |  |  | Revision of S1-230229.  Changes on changes to be cleaned-up | Revised to S1-230577 |
| 111 | 7.3 | S1-230577 | OTD\_US | Pseudo-CR to add considerations for Mission Critical and other priority services |  |  |  |  |  |  |  |  | Replaces S1-230438 | Revision of S1-230229. Revision of S1-230438.  Problem of formatting in the conclusion | Revised to S1-230775 |
| 112 | 7.3 | S1-230775 | OTD\_US | Pseudo-CR to add considerations for Mission Critical and other priority services |  |  |  |  |  |  |  |  | Replaces S1-230577 | Revision of S1-230229. Revision of S1-230438. Revision of S1-230577. Fix format No presentation | Agreed |
| 113 | 7.3 | [**S1-230267**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230267.zip) | Samsung | [DRAFT] LS on IMS-based 3D Avatar Call Support for Accessibility | LS out |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Asks ITU-T SG16 for their opinion on the proposal and references. |  | Revised to S1-230414 |
| 114 | 7.3 | S1-230414 | Samsung | [DRAFT] LS on IMS-based 3D Avatar Call Support for Accessibility | LS |  |  |  |  |  |  |  |  | Revision of S1-230267.  Qualcomm would prefer to have it handled at the next meeting | Noted |
| 115 | 7.3 | [**S1-230270**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230270.zip) | Samsung | Pseudo-CR on 6: Relation to other standards activities | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Mentions that other standards activities concerning Metaverse have not been considered in the development of this study |  | Revised to S1-230439 |
| 116 | 7.3 | S1-230439 | Samsung | Pseudo-CR on 6: Relation to other standards activities |  |  |  |  |  |  |  |  |  | Revision of S1-230270. | Revised to S1-230578 |
| 117 | 7.3 | S1-230578 | Samsung | Pseudo-CR on 6: Relation to other standards activities |  |  |  |  |  |  |  |  | Replaces S1-230439 | Revision of S1-230270. Revision of S1-230439. Remove the clause and check the Numbers. | Agreed |
| 118 | 7.3 | [**S1-230271**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230271.zip) | Samsung | Pseudo-CR on 7: Considerations | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Provides a brief statement of 'other considerations' discussed in the TR. |  | Revised to S1-230440 |
| 119 | 7.3 | S1-230440 | Samsung | Pseudo-CR on 7: Considerations |  |  |  |  |  |  |  |  |  | Revision of S1-230271. | Noted |
| 120 | 7.3 | [**S1-230272**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230272.zip) | Samsung | Pseudo-CR on 8: Consolidated potential requirements and KPIs | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | This is an initial consolidation of the FS\_Metaverse requirements except for digital assets, which are consolidated in another pCR. |  | Not Handled |
| 01 | 7.3.1 | [**S1-230275**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230275.zip) | Samsung | Presentation of Specification/Report to TSG: TR 22.856 0.4.0 (will be 1.0.0 as presented to plenary) | TS or TR cover | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | cover sheet for TR 22.856 For approval in SA1, but sent for \*information\* to SA 99. | to be sent for information | Revised to S1-230801 |
| 02 | 7.3.1 | S1-230801 | Samsung | Presentation of Specification/Report to TSG: TR 22.856 0.4.0 (will be 1.0.0 as presented to plenary) | TS or TR cover | 22.856 |  |  |  | 0.3.0 | Rel-19 | **FS\_Metaverse** | Replaces S1-230275 | Revision of S1-230275. Delete Changes since last SA and delete number of editors note. | Agreed |
| 03 | 7.3.1 | S1-230723 | Rapporteur (Samsung) | TR 22.856v0.4.0 Study on Localized Mobile Metaverse Services |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 04 | 7.3.1 | S1-230197 | China Mobile Com. Corporation | Pseudo-CR on New Use Case on Authorization of Avatar Usage Rights | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Withdrawn |
| 03 | 7.4 | [**S1-230093**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230093.zip) | China Unicom | FS\_Netshare Overview | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Provide the potential Overview for TR22.851V1.0.0. |  | Revised to S1-230553 |
| 04 | 7.4 | S1-230553 | China Unicom | FS\_Netshare Overview | pCR | 22.851 |  |  |  | 1.0.0 | Rel-19 | **FS\_NetShare** | Replaces S1-230093 | Revision of S1-230093. | Revised to S1-230579 |
| 05 | 7.4 | S1-230579 | China Unicom | FS\_Netshare Overview | pCR | 22.851 |  |  |  | 1.0.0 | Rel-19 | **FS\_NetShare** | Replaces S1-230553 | Revision of S1-230093. Revision of S1-230553. | Agreed |
| 06 | 7.4 | [**S1-230019**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230019.zip) | ZTE | TR Cleanup | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | TR Editorial Cleanup |  | Revised to S1-230071 |
| 07 | 7.4 | [**S1-230071**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230071.zip) | China Unicom, Charter Communications, ZTE | Feasibility Study on Network Sharing Aspect | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | [Revision of S1-230019](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1400179)  Editorial improvement throughout the document | Revision of S1-230019. | Revised to S1-230735 |
| 08 | 7.4 | S1-230735 | China Unicom, Charter Communications, ZTE | Feasibility Study on Network Sharing Aspect | pCR | 22.851 |  |  |  | 1.0.0 | Rel-19 | **FS\_NetShare** | Replaces S1-230071 | The format of this pCR is very unusual, with a cover page, etc. It should be a normal pCR. | Revised to S1-230746 |
| 09 | 7.4 | S1-230746 | China Unicom, Charter Communications, ZTE | Feasibility Study on Network Sharing Aspect | pCR | 22.851 |  |  |  | 1.0.0 | Rel-19 | **FS\_NetShare** | Replaces S1-230735 | Revision of S1-230019. Revision of S1-230071. Revision of S1-230735. | Agreed |
| 10 | 7.4 | S1-230351 | China Unicom | Discussion paper of FS\_Netshare WID and CR |  |  |  |  |  |  |  |  |  | New coming document based on Monday discussion at main room Majority is going to Op 1. (located in 261 and refers 101) | Noted |
| 12 | 7.4 | [**S1-230016**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230016.zip) | Charter Communications, Inc | Add Public Warning System Requirement | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Introduce the potential PWS requirement for the non-N2 shared network in TR 22.851 V1.0.0 | Merged into the PR001 of #0361 | Noted |
| 13 | 7.4 | [**S1-230018**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230018.zip) | ZTE | Use Case on Support of PWS in 5G Shared Access Network with Indirect Interconnection | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Description of Use Case on Support of PWS in 5G Shared Access Network with Indirect Interconnection and potential requirements. |  | Revised to S1-230102 |
| 14 | 7.4 | [**S1-230102**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230102.zip) | ZTE Wistron Telecom AB, one2many, Charter Communications Inc., China Unicom | Use Case on Support of PWS in 5G Shared Access Network with Indirect Interconnection | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | [Revision of S1-230018](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1400178)  Description of Use Case on Support of PWS in 5G Shared Access Network with Indirect Interconnection and potential requirements. | Revision of S1-230018. | Revised to S1-230361 |
| 15 | 7.4 | S1-230361 | ZTE | Use Case on Support of PWS in 5G Shared Access Network with Indirect Interconnection |  |  |  |  |  |  |  |  |  | Revision of S1-230018. Revision of S1-230102. | Agreed |
| 16 | 7.4 | [**S1-230277**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230277.zip) | Samsung | Use case for prioritizing home RAN over partner operator’s RAN | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | This pCR proposes a new use case to TR 22.851 |  | Revised to S1-230362 |
| 17 | 7.4 | S1-230362 | Samsung | Use case for prioritizing home RAN over partner operator s RAN |  |  |  |  |  |  |  |  |  | Revision of S1-230277. approach : no UE impacts (Qualcomm, Charter, OPPO) | Withdrawn |
| 18 | 7.4 | [**S1-230278**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230278.zip) | Samsung | Use case on Emergency services in a Shared Network | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | This pCR proposes a new use case to TR 22.851 |  | Revised to S1-230363 |
| 19 | 7.4 | S1-230363 | Samsung | Use case on Emergency services in a Shared Network |  |  |  |  |  |  |  |  |  | Revision of S1-230278. | Withdrawn |
| 21 | 7.4 | [**S1-230066**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230066.zip) | Nokia, Nokia Shanghai Bell | Clarifications on UE steering | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | This document provides clarifications on UE steering for FS\_NetShare, which is currently FFS. |  | Revised to S1-230385 |
| 22 | 7.4 | S1-230385 | Nokia, Nokia Shanghai Bell | Clarifications on UE steering |  |  |  |  |  |  |  |  |  | Revision of S1-230066.  CATT: "Steering indication" shall be clarified (in the 2nd requirement). Nokia: it was "guidance" initially, and it was requested to change it into "indication".  Qualcomm request for more clarifications to the text to be done off-line. | Revised to S1-230580 |
| 23 | 7.4 | S1-230580 | Nokia, Nokia Shanghai Bell | Clarifications on UE steering |  |  |  |  |  |  |  |  | Replaces S1-230385 | Revision of S1-230066. Revision of S1-230385. | Agreed |
| 24 | 7.4 | [**S1-230067**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230067.zip) | Nokia, Nokia Shanghai Bell | Editorial changes to quoted text | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.3.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | This document provides editorial fixes to quoted text in FS\_NetShare TR |  | Agreed |
| 25 | 7.4 | [**S1-230149**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230149.zip) | CATT | pCR on updates of clause 5.7 | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.3.0 | [**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 S1-230386 |
| 26 | 7.4 | S1-230386 | CATT | pCR on updates of clause 5.7 |  |  |  |  |  |  |  |  |  |  | Revised to S1-230392 |
| 27 | 7.4 | S1-230392 | CATT | pCR on updates of clause 5.7 |  |  |  |  |  |  |  |  | Replaces S1-230386 | During presentation, CATT propose to rewrite as: "[PR 5.7.6-003] In case of Indirect Network Sharing, the 5G system shall be able to apply the differentiated access control for the access networks of Shared RANs based on the Hosting and Participating Operator’s agreement and policies."  Qualcomm needs more time | Revised to S1-230581 |
| 28 | 7.4 | S1-230581 | CATT | pCR on updates of clause 5.7 |  |  |  |  |  |  |  |  | Replaces S1-230392 | Revision of S1-230386. Revision of S1-230392. | Revised to S1-230776 |
| 29 | 7.4 | S1-230776 | CATT | pCR on updates of clause 5.7 |  |  |  |  |  |  |  |  | Replaces S1-230581 | Editor's notes should be kept. | Revised to S1-230781 |
| 30 | 7.4 | S1-230781 | CATT | pCR on updates of clause 5.7 |  |  |  |  |  |  |  |  | Replaces S1-230776 | Revision of S1-230386. Revision of S1-230392. Revision of S1-230581. Revision of S1-230776. Keep the editors note | Agreed |
| 32 | 7.4 | [**S1-230020**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230020.zip) | ZTE | Requirements Consolidation | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Different use cases described and potential requirements defined. The defined requirements need be consolidated for FS\_NetShare |  | Revised to S1-230103 |
| 33 | 7.4 | [**S1-230103**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230103.zip) | ZTE Wistron Telecom AB, China Unicom | Requirements Consolidation | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | [Revision of S1-230020](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1400180)  Different use cases described and potential requirements defined. The defined requirements need be consolidated for FS\_NetShare | Revision of S1-230020. | Revised to S1-230387 |
| 34 | 7.4 | S1-230387 | ZTE, China Unicom | Requirements Consolidation |  |  |  |  |  |  |  |  |  | Revision of S1-230020. Revision of S1-230103. | Revised to S1-230391 |
| 35 | 7.4 | S1-230391 | ZTE, China Unicom | Requirements Consolidation |  |  |  |  |  |  |  |  | Replaces S1-230387 | SA1 agreement on NetShare: SA1's understanding is that there will be no more use cases presented at the next meeting.  On this pCR: Qualcomm's comments to be taken off-line. | Revised to S1-230582 |
| 36 | 7.4 | S1-230582 | ZTE, China Unicom | Requirements Consolidation |  |  |  |  |  |  |  |  | Replaces S1-230391 | Revision of S1-230020. Revision of S1-230103. Revision of S1-230387. Revision of S1-230391. | Revised to S1-230777 |
| 37 | 7.4 | S1-230777 | ZTE, China Unicom | Requirements Consolidation |  |  |  |  |  |  |  |  | Replaces S1-230582 | In 7.2.1, the categorisation is not useful, in Qualcomm's view. It is deleted. | Revised to S1-230782 |
| 38 | 7.4 | S1-230782 | ZTE, China Unicom | Requirements Consolidation |  |  |  |  |  |  |  |  | Replaces S1-230777 | Revision of S1-230020. Revision of S1-230103. Revision of S1-230387. Revision of S1-230391. Revision of S1-230582. Revision of S1-230777. Remove bullet list + editors note | Agreed |
| 39 | 7.4 | [**S1-230079**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230079.zip) | China Unicom | TR 22.851 FS\_Netshare Conclusions | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 1.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Provide the potential Conclusions and Recommendations for TR22.851V1.0.0. |  | Revised to S1-230388 |
| 40 | 7.4 | S1-230388 | China Unicom | TR 22.851 FS\_Netshare Conclusions |  |  |  |  |  |  |  |  |  | Revision of S1-230079. | Noted |
| 41 | 7.4 | [**S1-230148**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230148.zip) | CATT | pCR on security consideration | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.3.0 | [**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 S1-230389 |
| 42 | 7.4 | S1-230389 | CATT | pCR on security consideration |  |  |  |  |  |  |  |  |  | Revision of S1-230148.  Edited while projecting. | Revised to S1-230583 |
| 43 | 7.4 | S1-230583 | CATT | pCR on security consideration |  |  |  |  |  |  |  |  | Replaces S1-230389 | Revision of S1-230148. Revision of S1-230389. Therefore, more security relative to user privacy and the operator s policy can be taken into account for the Indirect Network Sharing configuration. | Agreed |
| 01 | 7.4.1 | S1-230724 | Rapporteur (China Unicom) | Cover sheet of the TR22.851 for approval |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 02 | 7.4.1 | S1-230725 | Rapporteur (China Unicom) | TR 22.851v1.1.0 Study on Network Sharing Aspects |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.6 | [**S1-230017**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230017.zip) | InterDigital, OPPO | New use-case on local AI/ML model split on factory robots | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) |  |  | Revised to S1-230364 |
| 04 | 7.6 | S1-230364 | InterDigital, OPPO | New use-case on local AI/ML model split on factory robots |  |  |  |  |  |  |  |  |  | Revision of S1-230017. | Revised to S1-230395 |
| 05 | 7.6 | S1-230395 | InterDigital, OPPO | New use-case on local AI/ML model split on factory robots |  |  |  |  |  |  |  |  | Replaces S1-230364 | Revision of S1-230017. Revision of S1-230364.  Note to be removed in 5.x.6 | Revised to S1-230783 |
| 06 | 7.6 | S1-230783 | InterDigital, OPPO | New use-case on local AI/ML model split on factory robots |  |  |  |  |  |  |  |  | Replaces S1-230395 | Revision of S1-230017. Revision of S1-230364. Revision of S1-230395. Delete note in section 5x6. | Agreed |
| 07 | 7.6 | [**S1-230127**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230127.zip) | OPPO, Xiaomi | New use case of 5GS assisted distributed joint inference | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) | This document proposes a use case and related potential requirements to be included in FS\_AIML\_Ph2 TR 22.876. |  | Revised to S1-230365 |
| 08 | 7.6 | S1-230365 | OPPO, Xiaomi | New use case of 5GS assisted distributed joint inference |  |  |  |  |  |  |  |  |  | Revision of S1-230127.  Wrong header | Revised to S1-230393 |
| 09 | 7.6 | S1-230393 | OPPO, Xiaomi | New use case of 5GS assisted distributed joint inference |  |  |  |  |  |  |  |  | Replaces S1-230365 | Revision of S1-230127. Revision of S1-230365. Fix HEader No presentation | Agreed |
| 10 | 7.6 | [**S1-230128**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230128.zip) | OPPO, Xiaomi, Tsinghua University | 5GS assisted transfer learning for vehicle trajectory prediction | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) | This document proposes a new use case in FS\_AIML\_Ph2 TR 22.876. |  | Revised to S1-230366 |
| 11 | 7.6 | S1-230366 | OPPO, Xiaomi, Tsinghua University | 5GS assisted transfer learning for vehicle trajectory prediction |  |  |  |  |  |  |  |  |  | Revision of S1-230128.  Wrong header, typo.  "This PR"-> "this requirement"  Note to be removed | Revised to S1-230394 |
| 12 | 7.6 | S1-230394 | OPPO, Xiaomi, Tsinghua University | 5GS assisted transfer learning for vehicle trajectory prediction |  |  |  |  |  |  |  |  | Replaces S1-230366 | Revision of S1-230128. Revision of S1-230366. Agreed without the note | Agreed |
| 14 | 7.6 | [**S1-230087**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230087.zip) | Lenovo | Pseudo-CR on corrections to clause 2 and 5 | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) |  | No presentation | Agreed |
| 15 | 7.6 | [**S1-230092**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230092.zip) | China Telecommunications | Update on AI Model Transfer Management through Direct Device Connection | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) |  |  | Revised to S1-230367 |
| 16 | 7.6 | S1-230367 | China Telecommunications | Update on AI Model Transfer Management through Direct Device Connection |  |  |  |  |  |  |  |  |  | Revision of S1-230092.  Qualcomm: add square brackets n the very last line to show that it is a range | Revised to S1-230396 |
| 17 | 7.6 | S1-230396 | China Telecommunications | Update on AI Model Transfer Management through Direct Device Connection |  |  |  |  |  |  |  |  | Replaces S1-230367 | Revision of S1-230092. Revision of S1-230367. Reliability is assumed to be [99.9 99.999]% | Agreed |
| 18 | 7.6 | [**S1-230131**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230131.zip) | OPPO | Update of Use Case - Direct device connection based federated learing | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) | This document updates the use case and related potential requirements as well as resolves editor’s notes in FS\_AIML\_Ph2 TR 22.876 version 0.2.0. |  | Revised to S1-230368 |
| 19 | 7.6 | S1-230368 | OPPO | Update of Use Case - Direct device connection based federated learing |  |  |  |  |  |  |  |  |  | Revision of S1-230131. | Revised to S1-230397 |
| 20 | 7.6 | S1-230397 | OPPO | Update of Use Case - Direct device connection based federated learing |  |  |  |  |  |  |  |  | Replaces S1-230368 | Revision of S1-230131. Revision of S1-230368. | Revised to S1-230784 |
| 21 | 7.6 | S1-230784 | OPPO | Update of Use Case - Direct device connection based federated learing |  |  |  |  |  |  |  |  | Replaces S1-230397 | Revision of S1-230131. Revision of S1-230368. Revision of S1-230397. Req3#1 shall be able to configure" No presentation | Agreed |
| 22 | 7.6 | [**S1-230132**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230132.zip) | OPPO | Update of Use case – Proximity based work task offloading for AI/ML inference | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) | This document is to update the use case for proximity-based work task offloading in TR 22.876 clause 5.1 |  | Revised to S1-190369 |
| 23 | 7.6 | S1-230369 | OPPO | Update of Use case Proximity based work task offloading for AI/ML inference |  |  |  |  |  |  |  |  |  | Revision of S1-230132. | Revised to S1-230737 |
| 24 | 7.6 | S1-230737 | OPPO | Update of Use case Proximity based work task offloading for AI/ML inference |  |  |  |  |  |  |  |  | Replaces S1-230369 | Revision of S1-230132. Revision of S1-230369. | Revised to S1-230742 |
| 25 | 7.6 | S1-230742 | OPPO | Update of Use case Proximity based work task offloading for AI/ML inference |  |  |  |  |  |  |  |  | Replaces S1-230737 | Qualcomm: 2nd Note ("Note X") to be deleted | Revised to S1-230744 |
| 26 | 7.6 | S1-230744 | OPPO | Update of Use case Proximity based work task offloading for AI/ML inference |  |  |  |  |  |  |  |  | Replaces S1-230742 | Revision of S1-230132. Revision of S1-230369. Revision of S1-230737. Revision of S1-230742. Remove NOTE X | Agreed |
| 28 | 7.6 | [**S1-230133**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230133.zip) | OPPO | Consolidation on Functional Requirement of AIML-Ph2 | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AIML\_MT\_Ph2**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950008) | It is proposed to make CPR mapping table for consolidation of AIML-Ph2. |  | Revised to S1-230390 |
| 29 | 7.6 | S1-230390 | OPPO | Consolidation on Functional Requirement of AIML-Ph2 |  |  |  |  |  |  |  |  |  | Revision of S1-230133. | Noted |
| 01 | 7.6.1 | S1-230726 | Rapporteur (OPPO) | Cover sheet of the TR22.876 for information |  |  |  |  |  |  |  |  |  |  | Revised to S1-230806 |
| 02 | 7.6.1 | S1-230806 | Rapporteur (OPPO) | Cover sheet of the TR22.876 for information |  |  |  |  |  |  |  |  | Replaces S1-230726 | Revision of S1-230726. Delete sentence There are one remaining editor's notes to be resolved before the TR is sent for approval. | Agreed |
| 03 | 7.6.1 | S1-230727 | Rapporteur (OPPO) | TR 22.876v0.3.0 Study on AI/ML Model Transfer\_Phase2 |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.7 | [**S1-230136**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230136.zip) | NOVAMINT | Text Proposal for the Overview section | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230454 |
| 04 | 7.7 | S1-230454 | NOVAMINT | Text Proposal for the Overview section |  |  |  |  |  |  |  |  |  | Revision of S1-230136. | Revised to S1-230475 |
| 05 | 7.7 | S1-230475 | NOVAMINT | Text Proposal for the Overview section |  |  |  |  |  |  |  |  |  | Revision of S1-230136. Revision of S1-230454. | Agreed |
| 07 | 7.7 | [**S1-230072**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230072.zip) | ETRI | Use case on service continuity for UE-to-UE communication across multiple satellites | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | This document proposes a use case on service continuity for UE-to-UE communication across multiple satellites and relevant requirements for TR22.865 v0.2.0 (FS\_5GSAT\_ph3). |  | Revised to S1-230129 |
| 08 | 7.7 | [**S1-230129**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230129.zip) | ETRI, Novamint | Use case on service continuity for UE-to-UE communication across multiple satellites | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | [Revision of S1-230072](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1400973)  This document proposes a use case on service continuity for UE-to-UE communication across multiple satellites and relevant requirements for TR22.865 v0.2.0 (FS\_5GSAT\_ph3). | Revision of S1-230072. | Revised to S1-230450 |
| 09 | 7.7 | S1-230450 | ETRI, Novamint | Use case on service continuity for UE-to-UE communication across multiple satellites |  |  |  |  |  |  |  |  |  | Revision of S1-230072. Revision of S1-230129. | Revised to S1-230457 |
| 10 | 7.7 | S1-230457 | ETRI, Novamint | Use case on service continuity for UE-to-UE communication across multiple satellites |  |  |  |  |  |  |  |  |  | Revision of S1-230072. Revision of S1-230129. Revision of S1-230450. | Revised to S1-230645 |
| 11 | 7.7 | S1-230645 | ETRI, Novamint | Use case on service continuity for UE-to-UE communication across multiple satellites |  |  |  |  |  |  |  |  | Replaces S1-230457 | It is explained that the 2nd requirement is for inter-satellite. | Revised to S1-230669 |
| 12 | 7.7 | S1-230669 | ETRI, Novamint | Use case on service continuity for UE-to-UE communication across multiple satellites |  |  |  |  |  |  |  |  | Replaces S1-230645 | Revision of S1-230072. Revision of S1-230129. Revision of S1-230450. Revision of S1-230457. Revision of S1-230645. | Agreed |
| 13 | 7.7 | [**S1-230073**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230073.zip) | ETRI | Use case on service continuity for UE-to-UE communication in case of network roaming | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | This document proposes a use case on service continuity for UE-to-UE communication in case of network roaming and relevant requirements for TR22.865 v0.2.0 (FS\_5GSAT\_ph3) |  | Revised to S1-230130 |
| 14 | 7.7 | [**S1-230130**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230130.zip) | ETRI, Novamint | Use case on service continuity for UE-to-UE communication in case of network roaming | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | [Revision of S1-230073](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1400974)  This document proposes a use case on service continuity for UE-to-UE communication in case of network roaming and relevant requirements for TR22.865 v0.2.0 (FS\_5GSAT\_ph3) | Revision of S1-230073. | Revised to S1-230458 |
| 15 | 7.7 | S1-230458 | ETRI, Novamint | Use case on service continuity for UE-to-UE communication in case of network roaming |  |  |  |  |  |  |  |  |  | Revision of S1-230073. Revision of S1-230130. | Revised to S1-230670 |
| 16 | 7.7 | S1-230670 | ETRI, Novamint | Use case on service continuity for UE-to-UE communication in case of network roaming |  |  |  |  |  |  |  |  | Replaces S1-230458 | Revision of S1-230073. Revision of S1-230130. Revision of S1-230458. Change roaming to mobility from Fig title. | Agreed |
| 17 | 7.7 | [**S1-230126**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230126.zip) | Rakuten Mobile, Inc | Minimization of Service Interruption in case of Satellite Access | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | This contribution proposes a new use case for FS\_5GSAT\_Ph3 |  | Noted |
| 18 | 7.7 | [**S1-230203**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230203.zip) | IIT Bombay | Usage of satellite connectivity for AI/ML support in 5GS | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | This document proposes a use case along with requirements to be considered for FS\_5GSAT\_Ph3 in TR 22.865. |  | Noted |
| 19 | 7.7 | [**S1-230288**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230288.zip) | NOVAMINT, GateHouse,TNO | Use case on store and forward – emergency report relaying | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230452 |
| 20 | 7.7 | S1-230452 | NOVAMINT, GateHouse, TNO | Use case on store and forward emergency report relaying |  |  |  |  |  |  |  |  |  | Revision of S1-230288. | Revised to S1-230459 |
| 21 | 7.7 | S1-230459 | NOVAMINT, GateHouse, TNO | Use case on store and forward emergency report relaying |  |  |  |  |  |  |  |  |  | Revision of S1-230288. Revision of S1-230452. | Revised to S1-230679 |
| 22 | 7.7 | S1-230679 | NOVAMINT, GateHouse, TNO | Use case on store and forward emergency report relaying |  |  |  |  |  |  |  |  |  | Revision of S1-230288. Revision of S1-230452. Revision of S1-230459. Editors note FFS to PR#1. | Agreed |
| 23 | 7.7 | [**S1-230289**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230289.zip) | NOVAMINT, GateHouse,TNO | Use case on store and forward – emergency pass-through for UE to UE communication | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230460 |
| 24 | 7.7 | S1-230460 | NOVAMINT, GateHouse, TNO | Use case on store and forward emergency pass-through for UE to UE communication |  |  |  |  |  |  |  |  |  | Revision of S1-230289. | Revised to S1-230672 |
| 25 | 7.7 | S1-230672 | NOVAMINT, GateHouse, TNO | Use case on store and forward emergency pass-through for UE to UE communication |  |  |  |  |  |  |  |  | Replaces S1-230460 | Revision of S1-230289. Revision of S1-230460. | Withdrawn |
| 27 | 7.7 | [**S1-230057**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230057.zip) | Nokia | Updates in use case 5.1 to align service flows and potential new requirements | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | This contribution proposes updates of use case 5.1 |  | Revised to S1-230455 |
| 28 | 7.7 | S1-230455 | Nokia | Updates in use case 5.1 to align service flows and potential new requirements |  |  |  |  |  |  |  |  |  | Revision of S1-230057. | Revised to S1-230467 |
| 29 | 7.7 | S1-230467 | Nokia | Updates in use case 5.1 to align service flows and potential new requirements |  |  |  |  |  |  |  |  |  | Revision of S1-230057. Revision of S1-230455. | Revised to S1-230673 |
| 30 | 7.7 | S1-230673 | Nokia | Updates in use case 5.1 to align service flows and potential new requirements |  |  |  |  |  |  |  |  | Replaces S1-230467 | Revision of S1-230057. Revision of S1-230455. Revision of S1-230467. Editors note FFS for Req#6 | Agreed |
| 31 | 7.7 | [**S1-230058**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230058.zip) | Nokia | Updates in use case 5.2 to align service flows and potential new requirements | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) | This contribution proposes updates of use case 5.2 |  | Revised to S1-230456 |
| 32 | 7.7 | S1-230456 | Nokia | Updates in use case 5.2 to align service flows and potential new requirements |  |  |  |  |  |  |  |  |  | Revision of S1-230058. | Revised to S1-230466 |
| 33 | 7.7 | S1-230466 | Nokia | Updates in use case 5.2 to align service flows and potential new requirements |  |  |  |  |  |  |  |  |  | Revision of S1-230058. Revision of S1-230456. | Revised to S1-230468 |
| 34 | 7.7 | S1-230468 | Nokia | Updates in use case 5.2 to align service flows and potential new requirements |  |  |  |  |  |  |  |  |  | Revision of S1-230058. Revision of S1-230456. Revision of S1-230466. | Revised to S1-230674 |
| 35 | 7.7 | S1-230674 | Nokia | Updates in use case 5.2 to align service flows and potential new requirements |  |  |  |  |  |  |  |  | Replaces S1-230468 | Revision of S1-230058. Revision of S1-230456. Revision of S1-230466. Revision of S1-230468. Editors note FFS for Req#5 | Agreed |
| 36 | 7.7 | [**S1-230137**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230137.zip) | NOVAMINT, TNO | Update of 5.2 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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) |  |  | Merged into S1-230456 |
| 37 | 7.7 | [**S1-230138**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230138.zip) | NOVAMINT, TNO | Update of 5.3 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230469 |
| 38 | 7.7 | S1-230469 | NOVAMINT, TNO | Update of 5.3 |  |  |  |  |  |  |  |  |  | Revision of S1-230138. | Agreed |
| 39 | 7.7 | [**S1-230139**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230139.zip) | NOVAMINT, TNO | Update of 5.4 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 |
| 40 | 7.7 | [**S1-230140**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230140.zip) | NOVAMINT, TNO | Update of 5.5 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230470 |
| 41 | 7.7 | S1-230470 | NOVAMINT, TNO | Update of 5.5 |  |  |  |  |  |  |  |  |  | Revision of S1-230140. | Agreed |
| 42 | 7.7 | [**S1-230150**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230150.zip) | CATT | pCR on updates of clause 5.5 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230471 |
| 43 | 7.7 | S1-230471 | CATT | pCR on updates of clause 5.5 |  |  |  |  |  |  |  |  |  | Revision of S1-230150. | Revised to S1-230656 |
| 44 | 7.7 | S1-230656 | CATT | pCR on updates of clause 5.5 |  |  |  |  |  |  |  |  | Replaces S1-230471 | Revision of S1-230150. As on the photo Revision of S1-230471. | Agreed |
| 45 | 7.7 | [**S1-230141**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230141.zip) | NOVAMINT, TNO | Update of 5.7 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 |
| 46 | 7.7 | [**S1-230143**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230143.zip) | NOVAMINT, TNO | Update of 5.8 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230472 |
| 47 | 7.7 | S1-230472 | NOVAMINT, TNO | Update of 5.8 |  |  |  |  |  |  |  |  |  | Revision of S1-230143. | Agreed |
| 48 | 7.7 | [**S1-230151**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230151.zip) | CATT, China Telecom | pCR on updates of clause 5.10 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230473 |
| 49 | 7.7 | S1-230473 | CATT, China Telecom | pCR on updates of clause 5.10 |  |  |  |  |  |  |  |  |  | Revision of S1-230151. | Revised to S1-230675 |
| 50 | 7.7 | S1-230675 | CATT, China Telecom | pCR on updates of clause 5.10 |  |  |  |  |  |  |  |  | Replaces S1-230473 | Revision of S1-230151. Revision of S1-230473. | Revised to S1-230785 |
| 51 | 7.7 | S1-230785 | CATT, China Telecom | pCR on updates of clause 5.10 |  |  |  |  |  |  |  |  | Replaces S1-230675 | Revision of S1-230151. Revision of S1-230473. Revision of S1-230675. Remove sentence from section 5 The 5G system shall be able to support a UE using simultaneous indirect and direct network connection mode. No presentation | Agreed |
| 52 | 7.7 | [**S1-230166**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230166.zip) | China Telecommunications | Pseudo-CR on updates to clause 5.12 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.2.0 | [**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 S1-230474 |
| 53 | 7.7 | S1-230474 | China Telecom | Pseudo-CR on updates to clause 5.12 |  |  |  |  |  |  |  |  |  | Revision of S1-230166. | Revised to S1-230676 |
| 54 | 7.7 | S1-230676 | China Telecom | Pseudo-CR on updates to clause 5.12 |  |  |  |  |  |  |  |  | Replaces S1-230474 | Revision of S1-230166. Revision of S1-230474. [PR 5.7.6-002] The 5G system with satellite access shall be able to support positioning services and to provide information to a UE on delivered performance of positioning services. | Agreed |
| 56 | 7.7 | [**S1-230193**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230193.zip) | Huawei Technologies R&D UK | Discussion on consolidation | discussion | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  |  |  |  |  |  | Noted |
| 01 | 7.7.1 | S1-230803 | Rapporteur (NOVAMINT) | cover page for 5gsat |  |  |  |  |  |  |  |  |  |  | Agreed |
| 02 | 7.7.1 | S1-230728 | Rapporteur (NOVAMINT) | TR 22.865v0.3.0 Study on Satellite Access Phase 3 |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Revised to S1-230802 |
| 03 | 7.7.1 | S1-230802 | Rapporteur (NOVAMINT) | TR 22.865v0.3.0 Study on Satellite Access Phase 3 |  |  |  |  |  |  |  |  | Replaces S1-230728 | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC Revision of S1-230728. No presentation | Agreed |
| 03 | 7.8 | [**S1-230010**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230010.zip) | InterDigital | New use case on UAV flight route tracking at Rendezvous points | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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) | [Revision of S1-223646](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393972) |  | Revised to S1-230357 |
| 04 | 7.8 | S1-230357 | InterDigital | New use case on UAV flight route tracking at Rendezvous points |  |  |  |  |  |  |  |  |  | Revision of S1-230010. | Agreed |
| 05 | 7.8 | [**S1-230157**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230157.zip) | Qualcomm | Use case on different UAV traffic over two networks | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 S1-230358 |
| 06 | 7.8 | S1-230358 | Qualcomm | Use case on different UAV traffic over two networks |  |  |  |  |  |  |  |  |  | Revision of S1-230157. | Withdrawn |
| 07 | 7.8 | [**S1-230158**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230158.zip) | Qualcomm | Use case on UAV traffic over alternative NWs | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 S1-230359 |
| 08 | 7.8 | S1-230359 | Qualcomm | Use case on UAV traffic over alternative NWs |  |  |  |  |  |  |  |  |  | Revision of S1-230158.  The problem expected to be solved is still not clear, in T-Mobile's view. | Noted |
| 09 | 7.8 | [**S1-230196**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230196.zip) | IIT Bombay | Use case on relay node onboard UAV, mobility between Terrestrial and Satellite access networks | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 document proposes a use case along with requirements to be considered for FS\_UAV\_Ph3 in TR 22.843 |  | Withdrawn |
| 10 | 7.8 | [**S1-230218**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230218.zip) | China Mobile Com. Corporation | pCR on New use case on supporting USS UTM relocation | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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) | [Revision of S1-223651](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393977) |  | Revised to S1-230371 |
| 11 | 7.8 | S1-230371 | China Mobile | pCR on New use case on supporting USS UTM relocation |  |  |  |  |  |  |  |  |  | Revision of S1-230218. | Withdrawn |
| 12 | 7.8 | [**S1-230219**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230219.zip) | China Mobile Com. Corporation | New use case: Supporting UAV service differentiation and prioritization | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 S1-230370 |
| 13 | 7.8 | S1-230370 | China Mobile | New use case: Supporting UAV service differentiation and prioritization |  |  |  |  |  |  |  |  |  | Revision of S1-230219. | Revised to S1-230372 |
| 14 | 7.8 | S1-230372 | China Mobile | New use case: Supporting UAV service differentiation and prioritization |  |  |  |  |  |  |  |  |  | Revision of S1-230219. Revision of S1-230370.  No agreement from T-Mobile and Huawei. | Noted |
| 16 | 7.8 | [**S1-230068**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230068.zip) | Nokia, Nokia Shanghai Bell | Update on UTM pre-/in-flight operation support | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 document provides updates to UTM support PRs in FS\_UAV\_Ph3 TR |  | Revised to S1-230373 |
| 17 | 7.8 | S1-230373 | Nokia, Nokia Shanghai Bell | Update on UTM pre-/in-flight operation support |  |  |  |  |  |  |  |  |  | Revision of S1-230068. | Revised to S1-230584 |
| 18 | 7.8 | S1-230584 | Nokia, Nokia Shanghai Bell | Update on UTM pre-/in-flight operation support |  |  |  |  |  |  |  |  | Replaces S1-230373 | Revision of S1-230068. Revision of S1-230373.  Changes on changes | Revised to S1-230786 |
| 19 | 7.8 | S1-230786 | Nokia, Nokia Shanghai Bell | Update on UTM pre-/in-flight operation support |  |  |  |  |  |  |  |  | Replaces S1-230584 | Revision of S1-230068. Revision of S1-230373. Revision of S1-230584. Remove changes on changes | Agreed |
| 20 | 7.8 | [**S1-230159**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230159.zip) | Qualcomm | Clarifications to use case 5.4 | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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) |  | Merged with 0217 | Revised to S1-230360 |
| 21 | 7.8 | S1-230360 | Qualcomm | Clarifications to use case 5.4 |  |  |  |  |  |  |  |  |  | Merged with 0217 Revision of S1-230159. | Revised to S1-230378 |
| 22 | 7.8 | S1-230378 | Qualcomm | Clarifications to use case 5.4 |  |  |  |  |  |  |  |  |  | Merged with 0217 Revision of S1-230159. Revision of S1-230360. | Revised to S1-230585 |
| 23 | 7.8 | S1-230585 | Qualcomm | Clarifications to use case 5.4 |  |  |  |  |  |  |  |  | Replaces S1-230378 | Merged with 0217 Revision of S1-230159. Revision of S1-230360. Revision of S1-230378.  Interdigital and Nokia stil have concerns. | Noted |
| 24 | 7.8 | [**S1-230217**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230217.zip) | China Mobile Com. Corporation | pCR on updates on use case for network-assisted UAV DAA | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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) | [Revision of S1-223720](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1394046) |  | Withdrawn |
| 25 | 7.8 | [**S1-230250**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230250.zip) | Orange | Update of the use case “Geofencing for Visual Line-of-Sight UAV missions” | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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) | The present contribution proposes an update of the section “5.3.6 Potential New Requirements" of the use case “5.3 Geofencing for Visual Line-of-Sight UAV missions”. |  | Revised to S1-230374 |
| 26 | 7.8 | S1-230374 | Orange | Update of the use case Geofencing for Visual Line-of-Sight UAV missions |  |  |  |  |  |  |  |  |  | Revision of S1-230250.  Futurewei and Qualcomm ask for more time to review | Revised to S1-230586 |
| 27 | 7.8 | S1-230586 | Orange | Update of the use case Geofencing for Visual Line-of-Sight UAV missions |  |  |  |  |  |  |  |  | Replaces S1-230374 | Revision of S1-230250. Revision of S1-230374.  5GS to be changed in 5G system  Qualcomm has issues with req 3, to be deleted  Editor note in req 2 to be kept. | Revised to S1-230787 |
| 28 | 7.8 | S1-230787 | Orange | Update of the use case Geofencing for Visual Line-of-Sight UAV missions |  |  |  |  |  |  |  |  | Replaces S1-230586 | Revision of S1-230250. Revision of S1-230374. Revision of S1-230586. Remove req#3 and keep editors note in req#2. | Agreed |
| 29 | 7.8 | [**S1-230274**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230274.zip) | Deutsche Telekom | pCR on updating use case 5.2 Supporting UAV flight preparation | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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) |  | Discuss the #274 right after the #068 | Revised to S1-230375 |
| 30 | 7.8 | S1-230375 | Deutsche Telekom | pCR on updating use case 5.2 Supporting UAV flight preparation |  |  |  |  |  |  |  |  |  | Discuss the #274 right after the #068 Revision of S1-230274. | Revised to S1-230379 |
| 31 | 7.8 | S1-230379 | Deutsche Telekom | pCR on updating use case 5.2 Supporting UAV flight preparation |  |  |  |  |  |  |  |  | Replaces S1-230375 | Discuss the #274 right after the #068 Revision of S1-230274. Revision of S1-230375.  was Agreed | Revised to S1-230778 |
| 32 | 7.8 | S1-230778 | Deutsche Telekom | pCR on updating use case 5.2 Supporting UAV flight preparation |  |  |  |  |  |  |  |  | Replaces S1-230379 | Qualcomm request for more time, until next meeting.  Deutsche Telekom noticed that they did not receive any feedback during the entire meeting, so it is odd to have this kind of comment on the last day. | Noted |
| 34 | 7.8 | [**S1-230300**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230300.zip) | InterDigital | Proposed consolidated requirements for UAV Phase 3 | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 S1-230376 |
| 35 | 7.8 | S1-230376 | InterDigital | Proposed consolidated requirements for UAV Phase 3 |  |  |  |  |  |  |  |  |  | Revision of S1-230300. | Noted |
| 01 | 7.8.1 | [**S1-230220**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230220.zip) | China Mobile Com. Corporation | TR 22843 coversheet for SA information | TS or TR cover | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.2.0 | [**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 S1-230377 |
| 02 | 7.8.1 | S1-230377 | China Mobile | TR 22843 coversheet for SA information |  |  |  |  |  |  |  |  |  | Revision of S1-230220. | Revised to S1-230804 |
| 03 | 7.8.1 | S1-230804 | China Mobile | TR 22843 coversheet for SA information |  |  |  |  |  |  |  |  | Replaces S1-230377 | Revision of S1-230220. Revision of S1-230377. | Agreed |
| 04 | 7.8.1 | S1-230729 | Rapporteur (China Mobile) | TR 22.843v0.3.0 Study on UAV Phase 3 |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.9 | [**S1-230155**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230155.zip) | Qualcomm | Overview section | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**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 S1-230453 |
| 04 | 7.9 | S1-230453 | Qualcomm | Overview section |  |  |  |  |  |  |  |  |  | Revision of S1-230155. | Revised to S1-230478 |
| 05 | 7.9 | S1-230478 | Qualcomm | Overview section |  |  |  |  |  |  |  |  |  | Revision of S1-230155. Revision of S1-230453. | Agreed |
| 07 | 7.9 | [**S1-230021**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230021.zip) | InterDigital, Qualcomm, Charter Communications, Lockheed Martin, Futurewei | New use case on Inter-PLMN scenario - TN and multiple NTN | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | [Revision of S1-223603](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393929) |  | Revised to S1-230461 |
| 08 | 7.9 | S1-230461 | InterDigital, Qualcomm, Charter Communications, Lockheed Martin, Futurewei | New use case on Inter-PLMN scenario - TN and multiple NTN |  |  |  |  |  |  |  |  |  | Revision of S1-230021. | Revised to S1-230479 |
| 09 | 7.9 | S1-230479 | InterDigital, Qualcomm, Charter Communications, Lockheed Martin, Futurewei | New use case on Inter-PLMN scenario - TN and multiple NTN |  |  |  |  |  |  |  |  |  | Revision of S1-230021. Revision of S1-230461. | Revised to S1-230481 |
| 10 | 7.9 | S1-230481 | InterDigital, Qualcomm, Charter Communications, Lockheed Martin, Futurewei | New use case on Inter-PLMN scenario - TN and multiple NTN |  |  |  |  |  |  |  |  | Replaces S1-230479 | Revision of S1-230021. Revision of S1-230461. Revision of S1-230479. | Agreed |
| 11 | 7.9 | [**S1-230025**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230025.zip) | NEC | New use case on access to local NPN services in inter (S)NPN-PLMN scenario | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**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 S1-230462 |
| 12 | 7.9 | S1-230462 | NEC | New use case on access to local NPN services in inter (S)NPN-PLMN scenario |  |  |  |  |  |  |  |  |  | Revision of S1-230025. | Revised to S1-230480 |
| 13 | 7.9 | S1-230480 | NEC | New use case on access to local NPN services in inter (S)NPN-PLMN scenario |  |  |  |  |  |  |  |  |  | Revision of S1-230025. Revision of S1-230462. | Revised to S1-230571 |
| 14 | 7.9 | S1-230571 | NEC | New use case on access to local NPN services in inter (S)NPN-PLMN scenario |  |  |  |  |  |  |  |  | Replaces S1-230480 | Revision of S1-230025. Revision of S1-230462. Revision of S1-230480. | Revised to S1-230588 |
| 15 | 7.9 | S1-230588 | NEC | New use case on access to local NPN services in inter (S)NPN-PLMN scenario |  |  |  |  |  |  |  |  | Replaces S1-230571 | Revision of S1-230025. Revision of S1-230462. Revision of S1-230480. Revision of S1-230571. No brackets in source companies, in req assuming the UE has a subscription with PNI-NPN. | Agreed |
| 16 | 7.9 | [**S1-230027**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230027.zip) | NEC | New use case on a group of devices in intra-(S)NPN scenario | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**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 S1-230463 |
| 17 | 7.9 | S1-230463 | NEC | New use case on a group of devices in intra-(S)NPN scenario |  |  |  |  |  |  |  |  |  | Revision of S1-230027. | Withdrawn |
| 18 | 7.9 | [**S1-230028**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230028.zip) | NEC | New use case on a group of devices accessing local NPN services in inter (S)NPN–PLMN scenario | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**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 S1-230464 |
| 19 | 7.9 | S1-230464 | NEC | New use case on a group of devices accessing local NPN services in inter (S)NPN PLMN scenario |  |  |  |  |  |  |  |  |  | Revision of S1-230028. | Revised to S1-230661 |
| 20 | 7.9 | S1-230661 | NEC | New use case on a group of devices accessing local NPN services in inter (S)NPN PLMN scenario |  |  |  |  |  |  |  |  | Replaces S1-230464 | Revision of S1-230028. Revision of S1-230464. | Revised to S1-230677 |
| 21 | 7.9 | S1-230677 | NEC | New use case on a group of devices accessing local NPN services in inter (S)NPN PLMN scenario |  |  |  |  |  |  |  |  | Replaces S1-230661 | Revision of S1-230028. Revision of S1-230464. Revision of S1-230661. | Agreed |
| 22 | 7.9 | [**S1-230199**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230199.zip) | IIT Bombay | Use case on relay node onboard a UAV, dual steering between Terrestrial and Satellite access networks | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | This document proposes a use case along with requirements to be considered for FS\_DualSteer in TR 22.841 |  | Noted |
| 23 | 7.9 | [**S1-230204**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230204.zip) | IIT Bombay | Use case on dual steering through satellite and terrestrial access networks for AI/ML model transfer | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | This document proposes a use case along with requirements to be considered for FS\_DualSteer in TR 22.841. |  | Revised to S1-230465 |
| 24 | 7.9 | S1-230465 | IIT Bombay | Use case on dual steering through satellite and terrestrial access networks for AI/ML model transfer |  |  |  |  |  |  |  |  |  | Revision of S1-230204. | Withdrawn |
| 25 | 7.9 | [**S1-230236**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230236.zip) | Lockheed Martin | Use Case on a UAV UE connecting to TN+NTN access networks | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | [Revision of S1-222019](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1344239) |  | Revised to S1-230476 |
| 26 | 7.9 | S1-230476 | Lockheed Martin | Use Case on a UAV UE connecting to TN+NTN access networks |  |  |  |  |  |  |  |  |  | Revision of S1-230236. | Revised to S1-230678 |
| 27 | 7.9 | S1-230678 | Lockheed Martin | Use Case on a UAV UE connecting to TN+NTN access networks |  |  |  |  |  |  |  |  | Replaces S1-230476 | corrupted header  req 1 to be slightly modified | Revised to S1-230789 |
| 28 | 7.9 | S1-230789 | Lockheed Martin | Use Case on a UAV UE connecting to TN+NTN access networks |  |  |  |  |  |  |  |  | Replaces S1-230678 | Revision of S1-230236. Revision of S1-230476. Revision of S1-230678. Req 1 ends " reporting to UE s HPLMN. | Agreed |
| 29 | 7.9 | [**S1-230243**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230243.zip) | Lockheed Martin | FS\_DualSteer Use Case on Vehicle IoT devices dual steering via NTN and TN | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.2.0 | [**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 S1-230451 |
| 30 | 7.9 | S1-230451 | Lockheed Martin | FS\_DualSteer Use Case on Vehicle IoT devices dual steering via NTN and TN |  |  |  |  |  |  |  |  |  | Revision of S1-230243. | Revised to S1-230477 |
| 31 | 7.9 | S1-230477 | Lockheed Martin | FS\_DualSteer Use Case on Vehicle IoT devices dual steering via NTN and TN |  |  |  |  |  |  |  |  |  | Revision of S1-230243. Revision of S1-230451. | Revised to S1-230681 |
| 32 | 7.9 | S1-230681 | Lockheed Martin | FS\_DualSteer Use Case on Vehicle IoT devices dual steering via NTN and TN |  |  |  |  |  |  |  |  | Replaces S1-230477 | Header corrupted, rephrasing needed on req 1 | Revised to S1-230788 |
| 33 | 7.9 | S1-230788 | Lockheed Martin | FS\_DualSteer Use Case on Vehicle IoT devices dual steering via NTN and TN |  |  |  |  |  |  |  |  | Replaces S1-230681 | Revision of S1-230243. Revision of S1-230451. Revision of S1-230477. Revision of S1-230681. Req#1 [PR 5.x.6-001] Based on network providers agreed data routing policies, the 5G system shall be able to support mechanisms to allow splitting, steering and switching of IoT devices data traffic (of the same data session), which is anchored in the 5GC in the HPLMN, across two access networks e.g. NTN and TN. | Agreed |
| 35 | 7.9 | [**S1-230156**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230156.zip) | Qualcomm | Initial consolidation proposal | other |  |  |  |  |  | [**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 |
| 36 | 7.9 | S1-230014 | Lockheed Martin | FS\_DualSteer Use Case on a UAV UE connecting to TN+NTN access | other | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | This paper proposes resubmission of S1-222019r9, a use case to be captured in TR 22.841 |  | Withdrawn |
| 37 | 7.9 | S1-230015 | Lockheed Martin | FS\_DualSteer Use Case on Vehicle UE dualsteering via Satellite and TN gNB | other | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Withdrawn |
| 01 | 7.9.1 | S1-230730 | Rapporteur (Qualcomm) | TR 22841 coversheet for SA information |  |  |  |  |  |  |  |  |  | Revision of S1-230220.  More use cases can be brought, even if the cover page is not clear on this. | Agreed |
| 02 | 7.9.1 | S1-230731 | Rapporteur (Qualcomm) | TR 22.841v0.3.0 Study on Upper layer traffic steering, switching and split over dual 3GPP access |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.10 | [**S1-230061**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230061.zip) | Nokia, Nokia Shanghai Bell | Clarifications on energy efficiency modes | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This document provides clarifications on “energy efficiency modes” for FS\_EnergyServ, which are currently FFS. |  | Agreed |
| 04 | 7.10 | [**S1-230062**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230062.zip) | Nokia, Nokia Shanghai Bell | Editorial fixes on full TR (english wording) | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This document provides editorial fixes to current EnergyServ TR. |  | Revised to S1-230326 |
| 05 | 7.10 | S1-230326 | Nokia, Nokia Shanghai Bell | Editorial fixes on full TR (english wording) | pCR | 22.882 |  |  |  | 0.2.0 | Rel-19 | FS\_EnergyServ | Replaces S1-230062 | Revision of S1-230062. | Revised to S1-230418 |
| 06 | 7.10 | S1-230418 | Nokia, Nokia Shanghai Bell | Editorial fixes on full TR (english wording) |  |  |  |  |  |  |  |  |  | Revision of S1-230062. Revision of S1-230326. | Agreed |
| 07 | 7.10 | [**S1-230188**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230188.zip) | China Mobile | pCR on TR 22.882 clean-up | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Noted |
| 09 | 7.10 | [**S1-230101**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230101.zip) | ZTE Corporation. China Mobile | new UC: Energy usage information exposure considering QoS | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This contribution proposes a new use case for FS\_ EnergyServ in which 5G system measures and exposes energy usage information also considers associated QoS together |  | Revised to S1-230419 |
| 10 | 7.10 | S1-230419 | ZTE Corporation. China Mobile | new UC: Energy usage information exposure considering QoS |  |  |  |  |  |  |  |  |  | Revision of S1-230101.  Both requirements are asked to be put for FFS | Revised to S1-230790 |
| 11 | 7.10 | S1-230790 | ZTE Corporation. China Mobile | new UC: Energy usage information exposure considering QoS |  |  |  |  |  |  |  |  | Replaces S1-230419 | Revision of S1-230101. Revision of S1-230419. Editors Note: both reqs are FFS. Correct format for the Note in the req. | Agreed |
| 12 | 7.10 | [**S1-230160**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230160.zip) | TOYOTA MOTOR CORPORATION | A new use case on the information exposure of renewable energy | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**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 S1-230420 |
| 13 | 7.10 | S1-230420 | TOYOTA M | A new use case on the information exposure of renewable energy |  |  |  |  |  |  |  |  |  | Revision of S1-230160. | Noted |
| 14 | 7.10 | [**S1-230185**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230185.zip) | China Mobile, ZTE | pCR EnergyServ use case of supporting service-level energy efficiency analysis for verticals | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | [Revision of S1-223650](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393976) |  | Revised to S1-230422 |
| 15 | 7.10 | S1-230422 | China Mobile, ZTE | pCR EnergyServ use case of supporting service-level energy efficiency analysis for verticals |  |  |  |  |  |  |  |  |  | Revision of S1-230185. | Revised to S1-230680 |
| 16 | 7.10 | S1-230680 | China Mobile, ZTE | pCR EnergyServ use case of supporting service-level energy efficiency analysis for verticals |  |  |  |  |  |  |  |  | Replaces S1-230422 | Revision of S1-230185. Revision of S1-230422. Req is FFS | Agreed |
| 17 | 7.10 | [**S1-230186**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230186.zip) | China Mobile, ZTE | pCR EnergyServ use case of Energy utilization of network management fault resolution | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | [Revision of S1-223649](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1393975) |  | Revised to S1-230423 |
| 18 | 7.10 | S1-230423 | China Mobile, ZTE | pCR EnergyServ use case of Energy utilization of network management fault resolution |  |  |  |  |  |  |  |  |  | Revision of S1-230186. | Noted |
| 19 | 7.10 | [**S1-230200**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230200.zip) | IIT Bombay | Energy utilization as service criteria for UE-initiated procedures | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | The document proposes a use case along with requirements to be considered for FS\_EnergyServ in TR 22.882. |  | Revised to S1-230424 |
| 20 | 7.10 | S1-230424 | IIT Bombay | Energy utilization as service criteria for UE-initiated procedures |  |  |  |  |  |  |  |  |  | Revision of S1-230200. | Withdrawn |
| 21 | 7.10 | [**S1-230202**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230202.zip) | IIT Bombay | Energy utilization as service criteria for areas having affordability and energy availability constraints | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | The document proposes a use case along with requirements to be considered for FS\_EnergyServ in TR 22.882. |  | Noted |
| 22 | 7.10 | [**S1-230249**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230249.zip) | Lenovo Future Communications | new UC: Application energy efficiency monitoring | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**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 S1-230442 |
| 23 | 7.10 | S1-230442 | Lenovo | new UC: Application energy efficiency monitoring |  |  |  |  |  |  |  |  |  | Revision of S1-230249.  Notes to be added to say the req are FFS | Revised to S1-230791 |
| 24 | 7.10 | S1-230791 | Lenovo | new UC: Application energy efficiency monitoring |  |  |  |  |  |  |  |  | Replaces S1-230442 | Revision of S1-230249. Revision of S1-230442. Edtiors note: both reqs are for FFS | Agreed |
| 25 | 7.10 | [**S1-230260**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230260.zip) | Rakuten Mobile, Inc | New use case on Renewable Energy Usage Information Exposure | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This document proposes a new use-case and requirements to TR 22.882 |  | Revised to S1-230421 |
| 26 | 7.10 | S1-230421 | Rakuten | New use case on Renewable Energy Usage Information Exposure |  |  |  |  |  |  |  |  |  | Revision of S1-230260. | Revised to S1-230683 |
| 27 | 7.10 | S1-230683 | Rakuten | New use case on Renewable Energy Usage Information Exposure |  |  |  |  |  |  |  |  | Replaces S1-230421 | Revision of S1-230260. Revision of S1-230421. | Revised to S1-230748 |
| 28 | 7.10 | S1-230748 | Rakuten | New use case on Renewable Energy Usage Information Exposure |  |  |  |  |  |  |  |  | Replaces S1-230683 | "minimum ratio" -> "above a minimum ratio"  "provide to a 3rd party" (missing the "to")  FFS to be added in 1st req | Revised to S1-230792 |
| 29 | 7.10 | S1-230792 | Rakuten | New use case on Renewable Energy Usage Information Exposure |  |  |  |  |  |  |  |  | Replaces S1-230748 | Revision of S1-230260. Revision of S1-230421. Revision of S1-230683. Revision of S1-230748. [PR.5.x.6-1] Subject to operator s policy, the 5G system shall be able to provide to a 3rd party a dedicated NPN or a network slice that operates above a minimum ratio of renewable energy. NOTE 1: This requirement does not imply that the 5G system will actively monitor the dedicated resources. Editors note: this requirements it FFS Req, 2 provide to a 3rd party | Agreed |
| 30 | 7.10 | [**S1-230282**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230282.zip) | MediaTek Inc. | A new use case on supporting carbon-aware communication systems | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**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 S1-230441 |
| 31 | 7.10 | S1-230441 | MediaTek | A new use case on supporting carbon-aware communication systems |  |  |  |  |  |  |  |  |  | Revision of S1-230282. | Withdrawn |
| 32 | 7.10 | [**S1-230283**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230283.zip) | MediaTek Inc. | A new use case on supporting carbon-aware communication service | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This contribution proposes a new use case on supporting carbon-aware communication service for TR22.882 (FS\_EnergyServ: Study on Energy Efficiency as service criteria). | Revision of S1-230282. | Revised to S1-230443 |
| 33 | 7.10 | S1-230443 | MediaTek | A new use case on supporting carbon-aware communication service |  |  |  |  |  |  |  |  |  | Revision of S1-230283. | Revised to S1-230684 |
| 34 | 7.10 | S1-230684 | MediaTek | A new use case on supporting carbon-aware communication service |  |  |  |  |  |  |  |  | Replaces S1-230443 | "this document" ->"this study|" | Revised to S1-230793 |
| 35 | 7.10 | S1-230793 | MediaTek | A new use case on supporting carbon-aware communication service |  |  |  |  |  |  |  |  | Replaces S1-230684 | Revision of S1-230283. Revision of S1-230443. Revision of S1-230684. NOTE 2: The granularity of reporting (e.g., per month) is not discussed in this study. | Agreed |
| 36 | 7.10 | [**S1-230284**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230284.zip) | MediaTek Inc. | A new use case on supporting carbon-aware application service | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This contribution proposes a new use case on supporting carbon-aware application service for TR22.882 (FS\_EnergyServ: Study on Energy Efficiency as service criteria). | Revision of S1-230282. Revision of S1-230283. | Revised to S1-230444 |
| 37 | 7.10 | S1-230444 | MediaTek | A new use case on supporting carbon-aware application service |  |  |  |  |  |  |  |  |  | Revision of S1-230284.  444 used by mistake by another company | Revised to S1-230449 |
| 38 | 7.10 | S1-230449 | MediaTek | A new use case on supporting carbon-aware application service |  |  |  |  |  |  |  |  | Replaces S1-230444 | Revision of S1-230284. Revision of S1-230444. | Withdrawn |
| 40 | 7.10 | [**S1-230063**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230063.zip) | Nokia, Nokia Shanghai Bell | Update to NPN use case to expose EE | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This document provides an update of the “Energy usage information exposure under NPN RAN sharing” to expose Energy efficiency information. |  | Revised to S1-230445 |
| 41 | 7.10 | S1-230445 | Nokia, Nokia Shanghai Bell | Update to NPN use case to expose EE |  |  |  |  |  |  |  |  |  | Revision of S1-230063. | Agreed |
| 42 | 7.10 | [**S1-230280**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230280.zip) | Samsung | Pseudo-CR Update of 22.882, 5.1 | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This pCR provides additional information and proposes to remove two Editor's Notes. |  | Revised to S1-230446 |
| 43 | 7.10 | S1-230446 | Samsung | Pseudo-CR Update of 22.882, 5.1 |  |  |  |  |  |  |  |  |  | Revision of S1-230280. | Revised to S1-230685 |
| 44 | 7.10 | S1-230685 | Samsung | Pseudo-CR Update of 22.882, 5.1 |  |  |  |  |  |  |  |  | Replaces S1-230446 | Revision of S1-230280. Revision of S1-230446. | Agreed |
| 45 | 7.10 | [**S1-230281**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230281.zip) | Samsung | Pseudo-CR Update of 22.882, 5.5 | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) | This pCR proposes to remove an Editor's Note from the use case 5.5. |  | Revised to S1-230447 |
| 46 | 7.10 | S1-230447 | Samsung | Pseudo-CR Update of 22.882, 5.5 |  |  |  |  |  |  |  |  |  | Revision of S1-230281. | Revised to S1-230587 |
| 47 | 7.10 | S1-230587 | Samsung | Pseudo-CR Update of 22.882, 5.5 |  |  |  |  |  |  |  |  | Replaces S1-230447 | Revision of S1-230281. Revision of S1-230447. | Revised to S1-230589 |
| 48 | 7.10 | S1-230589 | Samsung | Pseudo-CR Update of 22.882, 5.5 |  |  |  |  |  |  |  |  | Replaces S1-230587 | Revision of S1-230281. Revision of S1-230447. Revision of S1-230587. | Agreed |
| 50 | 7.10 | [**S1-230187**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230187.zip) | China Mobile, Samsung | Consolidation requirements on FS\_EnergyServ | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**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 S1-230448 |
| 51 | 7.10 | S1-230448 | China Mobile, Samsung | Consolidation requirements on FS\_EnergyServ |  |  |  |  |  |  |  |  |  | Revision of S1-230187. | Noted |
| 01 | 7.10.1 | [**S1-230189**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230189.zip) | China Mobile | TR 22.882 coversheet for SA information | TS or TR cover | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.2.0 | [**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 S1-230805 |
| 02 | 7.10.1 | S1-230805 | China Mobile | TR 22.882 coversheet for SA information | TS or TR cover | 22.882 |  |  |  | 0.2.0 | Rel-19 | **FS\_EnergyServ** | Replaces S1-230189 | Revision of S1-230189. Update use case + Requirements involves energy utilization as service criteria, different energy states of network functions and information exposure related to energy usage. | Agreed |
| 03 | 7.10.1 | S1-230732 | Rapporteur (China Mobile) | TR 22.882v0.3.0 Study on Energy Efficiency as service criteria |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 03 | 7.11 | [**S1-230302**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230302.zip) | LG Electronics Inc. | Terminology for SOBOT and General Robotics and Automation Aspects | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.2.0 | [**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 S1-230352 |
| 04 | 7.11 | S1-230352 | LG Electronics Inc. | Terminology for SOBOT and General Robotics and Automation Aspects |  |  |  |  |  |  |  |  |  | Revision of S1-230302. | Agreed |
| 06 | 7.11 | [**S1-230104**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230104.zip) | Tencent | New Use Case on Machine-type communication | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_SOBOT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) | Proposal of 2 use cases related to the incoming LS from MPEG on Video Coding for Machines |  | Revised to S1-230353 |
| 07 | 7.11 | S1-230353 | Tencent | New Use Case on Machine-type communication |  |  |  |  |  |  |  |  |  | Revision of S1-230104. | Revised to S1-230383 |
| 08 | 7.11 | S1-230383 | Tencent | New Use Case on Machine-type communication |  |  |  |  |  |  |  |  |  | Revision of S1-230104. Revision of S1-230353. | Agreed |
| 09 | 7.11 | [**S1-230195**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230195.zip) | China Telecom | Pseudo-CR on FS\_SOBOT: Patrol robots in CCRC | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.2.0 | [**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 S1-230354 |
| 10 | 7.11 | S1-230354 | China Telecom | Pseudo-CR on FS\_SOBOT: Patrol robots in CCRC |  |  |  |  |  |  |  |  |  | Revision of S1-230195. | Agreed |
| 11 | 7.11 | [**S1-230285**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230285.zip) | Huawei | Pseudo-CR on Real-time conversational robot | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.2.0 | [**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 S1-230355 |
| 12 | 7.11 | S1-230355 | Huawei | Pseudo-CR on Real-time conversational robot |  |  |  |  |  |  |  |  |  | Revision of S1-230285. | Agreed |
| 13 | 7.11 | [**S1-230304**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230304.zip) | LG Electronics Inc. | SOBOT Use Case: 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) |  |  |  | 0.2.0 | [**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 S1-230350 |
| 14 | 7.11 | S1-230350 | LG Electronics Inc. | SOBOT Use Case: Smart Communication Support for Data Collection and Fusion Using Multimodal Sensors in Multi-Robot / Multi-Agent Scenarios |  |  |  |  |  |  |  |  |  | Revision of S1-230304. | Revised to S1-230356 |
| 15 | 7.11 | S1-230356 | LG Electronics Inc. | SOBOT Use Case: Smart Communication Support for Data Collection and Fusion Using Multimodal Sensors in Multi-Robot / Multi-Agent Scenarios |  |  |  |  |  |  |  |  |  | Revision of S1-230304. Revision of S1-230350. | Agreed |
| 17 | 7.11 | [**S1-230142**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230142.zip) | vivo | update on use case of real-time cooperative safety protection | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.2.0 | [**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 S1-230381 |
| 18 | 7.11 | S1-230381 | vivo | update on use case of real-time cooperative safety protection |  |  |  |  |  |  |  |  |  | Revision of S1-230142. | Revised to S1-230398 |
| 19 | 7.11 | S1-230398 | vivo | update on use case of real-time cooperative safety protection |  |  |  |  |  |  |  |  | Replaces S1-230381 | Revision of S1-230142. Revision of S1-230381. | Agreed |
| 21 | 7.11 | [**S1-230303**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230303.zip) | LG Electronics Inc. | Fusion Levels for Robotic Applications Use cases | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.2.0 | [**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 S1-230382 |
| 22 | 7.11 | S1-230382 | LG Electronics Inc. | Fusion Levels for Robotic Applications Use cases |  |  |  |  |  |  |  |  |  | Revision of S1-230303. | Agreed |
| 01 | 7.11.1 | S1-230733 | Rapporteur (LGE) | TR 22.916v0.3.0 Study on Network of Service Robots with Ambient Intelligence |  |  |  |  |  |  |  |  |  | First draft by Monday 27th 23:00 UTC Comments till Thursday 2nd 23:00 UTC Final version by Friday 3rd 23:00 UTC | Agreed |
| 01 | 7.12 | [**S1-230248**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230248.zip) | Lenovo, CMCC, InterDigital, Deutsche Telekom, Samsung, Qualcomm | Considerations for application layer service enablement | discussion |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | This discussion paper proposes to update the scope and definitions in TS 22.261 to add service enablement layer within 5GS.  It is proposed that SA1 agree on updating the scope and definitions in TS 22.261, to include service enablement and exposure framework in order to clarify the Stage 1 requirements related to 5GS API exposure and service enablement that is used by SA6. The proposal is included in S1-230252. | Moved from 9  See actual CR in 252. | Noted |
| 02 | 7.12 | [**S1-230252**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_101_Athens/Docs/S1-230252.zip) | Lenovo, CMCC, InterDigital, Deutsche Telekom, Samsung, Qualcomm | Scope and definition update for application enablement | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0679 |  | D | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**SMARTER**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) | Update of scope to include “service enablement and exposure support framework” and addition of SEES framework definition . Related to discussion in S1-230248 | Moved from 8 WI SMARTER Rel-19 CR0679R- Cat D Wrong WI code, Wrong category.  Siemens disagree with this CR: this is a solution to existing requirements and should not be introduced to 22.261.  Samsung: this should be cat F. Adding a definition does not introduce any requirement.  This needs further off-line talks. | Revised to S1-230555 |
| 03 | 7.12 | S1-230555 | Lenovo, CMCC, InterDigital, Deutsche Telekom, Samsung, Qualcomm | Scope and definition update for application enablement | CR | 22.261 | 0679 | 1 | D | 19.1.0 | Rel-19 | **SMARTER** | Replaces S1-230252 | Moved from 8 WI SMARTER Rel-19 CR0679R- Cat D Wrong WI code, Wrong category Revision of S1-230252.  Siemens cannot agree with such CR. SA6 concerns are understood, but another way to solve these concerns should be found.  The added reference is wrong: it should be 21.205 and not 22.205.  For Nokia, the scope of 22.261 has been the same since its creation. Changing it only for Rel-19 onwards is an odd approach.  Oppo further explained that all requirements would have to be checked again if the scope is changed.  KPN wonder that there might be a misunderstanding on what 5G is.  Lenovo wanted to be added in the minutes that the reason for objection is that SA1 does not have consensus on whether SA6 functionality is part of the 5G System. | Noted |
| 01 | 10.1 | S1-230700 | Rapporteur / Session Chair | Sensing drafting report |  |  |  |  |  |  |  |  |  | All agreed documents in the drafting sessions are agreed by SA1. | Agreed |
| 02 | 10.1 | S1-230701 | Rapporteur / Session Chair | Ambient IoT drafting report |  |  |  |  |  |  |  |  |  | All agreed documents in the drafting sessions are agreed by SA1. | Agreed |
| 03 | 10.1 | S1-230702 | Rapporteur / Session Chair | Metaverse + Energy Serv drafting report |  |  |  |  |  |  |  |  |  | All agreed documents in the drafting sessions are agreed by SA1. | Agreed |
| 04 | 10.1 | S1-230703 | Rapporteur / Session Chair | NetShare + AIMLPh2 drafting report |  |  |  |  |  |  |  |  |  | All agreed documents in the drafting sessions are agreed by SA1. | Agreed |
| 05 | 10.1 | S1-230704 | Rapporteur / Session Chair | DualSteer + 5GSat drafting report |  |  |  |  |  |  |  |  |  | All agreed documents in the drafting sessions are agreed by SA1. | Agreed |
| 06 | 10.1 | S1-230705 | Rapporteur / Session Chair | UAV + SOBOT drafting report |  |  |  |  |  |  |  |  |  | All agreed documents in the drafting sessions are agreed by SA1. | Agreed |
| 01 | 10.2 | S1-230706 | Deutsche Telekom | FS\_Sensing Status report |  |  |  |  |  |  |  |  |  | 80% complete | Noted |
| 02 | 10.2 | S1-230707 | OPPO | FS\_AmbientIoT Status report |  |  |  |  |  |  |  |  |  | 80% complete, but not sent to approval | Noted |
| 03 | 10.2 | S1-230708 | Samsung | FS\_Metaverse Status report |  |  |  |  |  |  |  |  |  | 75% complete | Noted |
| 04 | 10.2 | S1-230709 | China Unicom | FS\_NetShare Status report |  |  |  |  |  |  |  |  |  | 80% complete | Noted |
| 05 | 10.2 | S1-230710 | UIC | FS\_FRMCS\_Ph3 Status report |  |  |  |  |  |  |  |  |  | (Planning has not changed check S1-23XXXX) | Withdrawn |
| 06 | 10.2 | S1-230711 | OPPO | FS\_AIML\_Ph2 Status report |  |  |  |  |  |  |  |  |  | 75% | Noted |
| 07 | 10.2 | S1-230712 | Ericsson | FS\_RVAS Status report |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 08 | 10.2 | S1-230713 | Novamint | FS\_ 5GSAT\_Ph3 Status report |  |  |  |  |  |  |  |  |  | 80%, no change | Noted |
| 09 | 10.2 | S1-230714 | China Mobile | FS\_UAV\_Ph3 Status report |  |  |  |  |  |  |  |  |  | 65% | Noted |
| 10 | 10.2 | S1-230715 | Qualcomm | FS\_DualSteer Status report |  |  |  |  |  |  |  |  |  | 75% | Noted |
| 11 | 10.2 | S1-230716 | China Mobile | FS\_EnergieServ Status report |  |  |  |  |  |  |  |  |  | 70% | Noted |
| 12 | 10.2 | S1-230717 | LGE | FS\_SOBOT Status report |  |  |  |  |  |  |  |  |  | 70%, date pushed to SA1#103 | Noted |
| 13 | 10.2 | S1-230752 | China Mobile | Status report XRmobility |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 14 | 10.2 | S1-230753 | Orange | Status report Edgindus |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 15 | 10.2 | S1-230807 | China Mobile | Status report for PSData off |  |  |  |  |  |  |  |  |  | 100% | Noted |
| 99 | 10.2 | S1-230795 | NOVAMINT, b-com, EDF, Intel, Cisco | Status report for FS\_ISN |  |  |  |  |  |  |  |  |  |  | Noted |
|  | 99 | S1-230594 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230595 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230596 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230597 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230598 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230599 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230809 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230380 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230384 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230399 |  | Not used |  |  |  |  |  |  |  |  |  |  | Not used |
|  | 99 | S1-230808 | Qualcomm | Allocated |  |  |  |  |  |  |  |  |  |  |  |
| 99 | 99 | S1-230738 | Oppo | pCR on removal of comparison in KPI |  |  |  |  |  |  |  |  |  | Submitted too late in the week | Not handled |
| 01 | 99 | S1-230722 | Rapporteur (Samsung) | Presentation of Specification/Report to TSG: TR 22.856 0.4.0 (will be 1.0.0 as presented to plenary) |  |  |  |  |  |  |  |  |  |  | Not handled |
| 18r | 99 | S1-230671 | NOVAMINT, GateHouse, TNO | Use case on store and forward emergency report relaying |  |  |  |  |  |  |  |  | Replaces S1-230459 | Withdrawn, 679 used instead | Withdrawn |