**3GPP TSG-SA WG1 Meeting #100**

**Toulouse, France, 14 – 18 Nov 2022**

# tdoc list SA1#100 version Nov 18 15h30

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Order | Ag.Item | Tdoc # | Source | Title | Type | Spec | CR# | r | cat | Versionin | Rel | WI | Summary | Discussion | Conclusion |
|  | 1.1 | S1-223000 | SA1 Chair | Draft agenda for SA1#100 | agenda |  |  |  |  |  |  |  |  |  | Revised |
|  | 1.1 | S1-223001 | SA1 Chair | 2nd Draft agenda for SA1#100 | agenda |  |  |  |  |  |  |  |  |  | Revised |
|  | 1.1 | S1-223002 | SA1 Chair | Agenda for SA1#99e with tdoc allocation | agenda |  |  |  |  |  |  |  |  |  | Approved |
| 05 | 2 | [**S1-223003**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223003.zip) | ETSI MCC | Work Plan presentation for SA1#100 | Work Plan |  |  |  |  |  |  |  |  |  | Noted |
|  | 1.1 | [**S1-223004**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223004.zip) | ETSI MCC | Draft minutes of SA1#99e | report |  |  |  |  |  |  |  |  |  | Agreed |
|  | 1.1 | S1-223005 | ETSI MCC | Minutes of SA1#99e | report |  |  |  |  |  |  |  |  |  | Agreed |
| 01 | 2 | [**S1-223006**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223006.zip) | SA1 Chair | SA1-related topics at SA#97e | report |  |  |  |  |  |  |  |  |  | Revised to S1-223320 |
| 06 | 2 | [**S1-223007**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223007.zip) | ETSI MCC | MCC info on CR Rules | other |  |  |  |  |  |  |  |  |  | Noted |
| 07 | 2 | [**S1-223008**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223008.zip) | ETSI MCC | MCC info on WID names | other |  |  |  |  |  |  |  |  |  | Noted |
| 03 | 2 | S1-223009 | Chair | Rel-19 Stage 1 timeline proposal | other |  |  |  |  |  |  |  | There might e a 3-month shift for Rel-19 for some key groups (RAN, etc). In this case, SA1 timeline should be also shifted to Dec 2023 (instead of current assumption to Sept. 2023). | Timeline endorsed | Endorsed |
| 114 | 7.2 | [**S1-223010**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223010.zip) | KPN | Slides Offline\_CC 13th October 2022 | discussion |  |  |  |  |  |  |  |  | Slides used during conference call (13/10/22). Just for info. | Noted |
| 120 | 7.1 | [**S1-223011**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223011.zip) | KPN | FS\_Sensing Slides Offline\_CC 18th October 2022 | report |  |  |  |  |  |  |  |  | Slides used during conference call (18/10/22). Just for info. | Noted |
| 57 | 7.2 | [**S1-223012**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223012.zip) | Wiliot Ltd. | New use case: Fresh Food Supply Chain | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223323 |
| 02 | 7.5 | [**S1-223013**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223013.zip) | Union Inter. Chemins de Fer | Enhancement of Multi-train voice communication use cases | CR | [**22.989**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 0019 |  | C | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_FRMCS\_Ph5**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950007) | Enhancements of the Multi-train voice communication for Drivers including Ground FRMCS User(s) use cases |  | Revised to S1-223282 |
| 05 | 7.5 | [**S1-223014**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223014.zip) | Union Inter. Chemins de Fer | Enhancement of Multiuser talker control use cases | CR | [**22.989**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 0020 |  | C | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_FRMCS\_Ph5**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950007) |  |  | Revised to S1-223283 |
| 09 | 7.5 | [**S1-223015**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223015.zip) | Union Inter. Chemins de Fer | Update of QoS in a railway environment use case | CR | [**22.989**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 0021 |  | C | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_FRMCS\_Ph5**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950007) |  |  | Revised to S1-223284 |
| 13 | 7.5 | [**S1-223016**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223016.zip) | Union Inter. Chemins de Fer | Enhancement of two use cases of Railway emergency communications | CR | [**22.989**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 0022 |  | C | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_FRMCS\_Ph5**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950007) |  |  | Revised to S1-223285 |
| 04 | 7.9 | [**S1-223017**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223017.zip) | Deutsche Telekom | Update of use case on Subscription based routing to a particular core network | pCR | [**22.877**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4094) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_RVAS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960015) | Adding missing requirements in 5.3.6 and removing the EN which says that additional requirements are FFS. |  | Revised to S1-223376 |
| 06 | 3 | [**S1-223018**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223018.zip) | Deutsche Telekom | DP on LS C1-226124 on SENSE for home PLMN and disaster roaming PLMN | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | It is proposed to answer:  Q1: A VPLMN fulfilling the SENSE threshold criterium has higher priority than the HPLMN not fulfilling the criterium and therefore the UE selects the VPLMN in such a case. This is to prevent the UE from selecting the HPLMN in border regions when the received signal from the HPLMN is not sufficient for the use case.  Q2: SA1 has agreed the attached CR#0342 to 22.011 for clarification. |  | Noted |
| 03 | 3 | [**S1-223019**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223019.zip) | Deutsche Telekom | Reply LS to C1-226124 on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |  |  | Revised to S1-223291 |
| 07 | 3 | [**S1-223020**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223020.zip) | Deutsche Telekom | Clarification of SENSE requirement under disaster roaming condition | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0342 |  | F | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) |  |  | Agreed |
| 01 | 9 | [**S1-223021**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223021.zip) | Ericsson | How document handling in a F2F meeting differs from an e-meeting | discussion |  |  |  |  |  |  |  | The purpose with the document is to list a few things that will be useful for all delegates to know when we now start with a F2F meeting again. |  | Noted |
| 115 | 7.2 | [**S1-223022**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223022.zip) | KPN N.V. | Slides Offline\_CC 26th October 2022 | report |  |  |  |  |  |  |  |  | Slides used during conference call (26/10/22). Just for info. | Noted |
| 03 | 7.1 | [**S1-223023**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223023.zip) | Telekom Deutschland GmbH | Pseudo-CR on Definition of 5G wireless sensing | 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) | This p-CR proposes definition of 5G wireless sensing. |  | Revised to S1-223333 |
| 01 | 8 | [**S1-223024**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223024.zip) | TELECOM ITALIA S.p.A. | 5G-SOLUTIONS: Feedback from Verticals on 5G performance on Project’s use cases | discussion |  |  |  |  |  |  |  | This document provides the feedback on 5G performance as received from the Verticals operating in the Project's Living Labs. |  | Noted |
| 06 | 7.4 | [**S1-223025**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223025.zip) | China Unicom | Updated use case on network access control and mobility requirements | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**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 S1-223410 |
| 02 | 7.12 | [**S1-223026**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223026.zip) | LG Electronics Inc. | FS\_SOBOT Use case template | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_SOBOT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960020) | Use case template | No presentation | Endorsed |
| 03 | 7.12 | [**S1-223027**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223027.zip) | LG Electronics Inc. | SOBOT use case on Online cooperative 3D map building | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.1.0 | [**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 S1-223381 |
| 15 | 7.4 | [**S1-223028**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223028.zip) | China Unicom | Use Case on Hosted Services Requirements | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**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 new potential Hosted Services requirements for the non-N2 shared network in TR22.851V0.2.0. |  | Revised to S1-223418 |
| 09 | 3 | [**S1-223029**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223029.zip) | MediaTek Inc. / Carlson | Discussion of SENSE applicability to PLMNs | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Propose SA1 to agree the S1-223030 and send a reply LS to CT1 to clarify that SENSE signal threshold is  Applicable to  - UserCtrledPLMNs (bullet ii),  - OpCtrledPLMNs (bullet iii), and  - Low quality Other PLMNs (bullet v).  Not applicable to  - RPLMN,  - (Eq)HomePLMNs (bullet i), and  - Disaster PLMNs. | Moved from 6.1 | Noted |
| 10 | 3 | [**S1-223030**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223030.zip) | MediaTek Inc. / Carlson | Clarification of SENSE applicability to PLMNs | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0343 |  | C | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) |  | Moved from 6.1 | Noted |
| 08 | 3 | [**S1-223031**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223031.zip) | MediaTek Inc. / Carlson | Reply LS on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) |  |  | Noted |
| 06 | 7.11 | [**S1-223032**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223032.zip) | MediaTek Inc. / Chien-sheng Yang | Use Case for Reducing GHG Footprint of Computing-Aware Systems | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 S1-223433 |
| 05 | 7.1 | [**S1-223033**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223033.zip) | Xiaomi Technology | Sensing definition | 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) | The definition of 5G based wireless sensing service is proposed. |  | Noted |
| 03 | 7.7 | [**S1-223034**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223034.zip) | China Telecommunications | Update of use case of store and forward operation with discontinuous feeder link for delay-tolerant IoT - Inter-satellite | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223391 |
| 19 | 7.4 | [**S1-223035**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223035.zip) | China Unicom | Use Case on Emergency Requirements | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**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 new potential emergency service requirements for the non-N2 shared network in TR22.851V0.2.0. |  | Revised to S1-223307 |
| 16 | 7.7 | [**S1-223036**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223036.zip) | China Telecommunications | Use case of Amazon Rainforest Adventure with satellite access | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223395 |
| 109 | 7.1 | [**S1-223037**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223037.zip) | Xiaomi Technology | Sensing examples | 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) | The sensing examples are proposed. |  | Noted |
| 03 | 7.4 | [**S1-223038**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223038.zip) | China Unicom | Update skeleton-TR22851 | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Adding additional sections on other considerations and consolidated requirements. | Update v0.2.0 and generate version 0.2.1 | Revised to S1-223306 |
| 110 | 7.1 | [**S1-223039**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223039.zip) | Xiaomi Technology | Sensing charging consideration | 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) | The sensing charging consideration is proposed. |  | Revised to S1-223502 |
| 03 | 7.6 | [**S1-223040**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223040.zip) | China Telecommunications | Update of Use Case of AI model transfer management through direct device connection | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.1.0 | [**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 S1-220413 |
| 06 | 7.8 | [**S1-223041**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223041.zip) | Orange | Geofencing for Visual Line-of-Sight UAV missions | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 to add, in the draft 3GPP TR 22.843, a new use case concerning geofencing for Visual Line of sight (VLoS). |  | Revised to S1-223437 |
| 06 | 6.1 | [**S1-223042**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223042.zip) | ETRI, KT Corp, SK Telecom, LG Uplus | Corrections of message length and coding for KPAS services | CR | [**22.268**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=639) | 0076 |  | F | 18.1.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**TEI18**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) | This CR proposes to make corrections of the length of warning notification messages and specify encoding schemes to support warning notifications in various languages. |  | Withdrawn |
| 29 | 7.3 | [**S1-223043**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223043.zip) | Orange, Huawei, Samsung, Xiaomi | Digital asset container, presentation, access and certification | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 present contribution proposes to add, in the draft 3GPP TR 22.856, a new use case concerning the user digital asset container managed by the operators. |  | Revised to S1-223462 |
| 32 | 7.3 | [**S1-223044**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223044.zip) | Orange, Huawei, Xiaomi | Interconnection of mobile metaverses | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | The contribution proposes to add, in the draft 3GPP TR 22.856, a new use case concerning the interconnection of the mobile metaverses allowing the user to use the same digital representation seamlessly. |  | Revised to S1-223463 |
| 02 | 7.9 | [**S1-223045**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223045.zip) | Ericsson, Deutsche Telekom | Editorial clean-up of RVAS TR | pCR | [**22.877**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4094) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_RVAS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960015) | Two editirial changes:  1. Change “Value Added” to Value-Added”. 2. Change “IMSI based routing to a particular core network” to “Subscriber based routing to a particular core network” in Scope and Overview. |  | Revised to S1-19223375 |
| 06 | 7.9 | [**S1-223046**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223046.zip) | Ericsson, Deutsche Telekom | RVAS Consolidation | pCR | [**22.877**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4094) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_RVAS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960015) | Consolidatipon of the requirements from the three use cases. |  | Revised to S1-223377 |
| 09 | 7.9 | [**S1-223047**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223047.zip) | Ericsson, Deutsche Telekom | RVAS conclusion | pCR | [**22.877**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4094) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_RVAS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960015) | This contribution suggest text for chapter 7, conclusion and recommendations. |  | Revised to S1-223378 |
| 43 | 7.1 | [**S1-223048**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223048.zip) | Xiaomi Technology | New use case: Vehicle Sensing for ADAS | 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) | A new use case of Vehicle sensing for ADAS is proposed. |  | Revised to S1-223336 |
| 45 | 7.1 | [**S1-223049**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223049.zip) | Xiaomi Technology | New use case: In-Vehicle Sensing for life 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) | A new use case of In-Vehicle Sensing for life detection is proposed. |  | Revised to S1-223337 |
| 113 | 7.1 | [**S1-223050**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223050.zip) | Xiaomi Technology | Sensing privacy consideration update | 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) | The sensing privacy consideration update is proposed. | No presentation | Revised to S1-223503 |
| 116 | 7.1 | [**S1-223051**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223051.zip) | Xiaomi Technology | Sensing Mission Critical and other priority services consideration update | 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) | The sensing Mission Critical and other priority services consideration update is proposed. |  | Revised to S1-223504 |
| 03 | 7.3 | [**S1-223052**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223052.zip) | Samsung | 22.856 pCR: Add an Overview | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 overview to TR 22.856. |  | Revised to S1-223440 |
| 05 | 7.3 | [**S1-223053**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223053.zip) | Samsung, Tencent | 22.856 pCR: Terminology for Mobile Metaverse Services | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Suggests aligned terminology for the FS\_Metaverse study and an approach to achieving alignment. |  | Revised to S1-223441 |
| 35 | 7.3 | [**S1-223054**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223054.zip) | Samsung, Orange, Huawei | 22.856 pcR: Digital Wallet Informative Annex | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) | Adds an annex to clarify the EU digital wallet initiative and its relevance. |  | Agreed |
| 36 | 7.3 | [**S1-223055**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223055.zip) | Samsung Electronics GmbH | 22.856 pCR: New Use Case on IMS-based 3D Avatar Communication | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 new use case introduces a new teleservice to 3GPP as a use case, the ability to perform 3D Avatar communication as an enhancement to the IMS beyond voice calls, video calls, etc. |  | Revised to S1-223464 |
| 38 | 7.3 | [**S1-223056**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223056.zip) | Samsung | 22.856 pCR: New Use case on Entertainment Theme Park | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 introduces a new use case on Entertainment Theme Park. | Not presented, no time | Not Handled |
| 09 | 7.3 | [**S1-223057**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223057.zip) | Samsung | 22.856 pCR: addressing ENs in 5.1 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 seeks to address some ENs in 5.1. |  | Revised to S1-223442 |
| 11 | 7.3 | [**S1-223058**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223058.zip) | Samsung | 22.856 pCR: address an EN in 5.4 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 addresses an EN in 22.856, 5.4. |  | Revised to S1-223443 |
| 14 | 7.3 | [**S1-223059**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223059.zip) | Samsung | 22.856 pCR: addressing ENs in 5.5 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 adds references and removes corresponding Editor's Notes. |  | Noted |
| 15 | 7.3 | [**S1-223060**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223060.zip) | Samsung | 22.856 pCR: editorial clean up proposals for 5.10 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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. |  | Revised to S1-223445 |
| 14 | 7.1 | [**S1-223061**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223061.zip) | Samsung | 22.837 pCR: Update on 5.4, Transparent Sensing use case | 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) | This use case presents proposes to remove an EN. |  | Agreed |
| 47 | 7.1 | [**S1-223062**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223062.zip) | Samsung | 22.837 pCR - Use case on Sensing of Sensor Groups | 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) | This use case presents a specific use of sensors to identify a sensor group, a concept that this pCR introduces. |  | Revised to S1-223338 |
| 03 | 7.11 | [**S1-223063**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223063.zip) | Samsung Electronics GmbH | 22.882 pCR: addressing ENs in 5.1 | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 seeks to address some ENs in 5.1. |  | Revised to S1-223431 |
| 09 | 7.11 | [**S1-223064**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223064.zip) | Samsung Electronics GmbH | 22.822 pCR: New Use Case on Service Energy Monitoring by an Application Server | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 new use case for the FS\_EnergyServe study introduces energy event monitoring support for a service provider and new policy control for an MNO based on energy charging and energy credit limits. |  | Revised to S1-223432 |
| 21 | 3 | [**S1-223065**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223065.zip) | Samsung Electronics GmbH | [Draft] Reply LS on low latency communication applications to use RAN feedback on periodicity for scheduling | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | LS reply proposal |  | Merge into 3290 |
| 23 | 3 | [**S1-223066**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223066.zip) | Samsung | Clarification of 5GS periodic deterministic communication support | CR | [**22.104**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 0092 |  | F | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**TEI18**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) | Deterministic low latency communication requires knowledge of the burst timing from the 5GS. The periodicity requirements will change over time. There are therefore dynamic aspects that must be taken into account by the 5G system to deliver periodic deterministic communication. | Wrong CR number | Noted |
| 22 | 3 | [**S1-223067**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223067.zip) | Samsung | Discussion on low latency communication use of RAN feedback on periodicity of scheduling | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5TRS\_URLLC**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=940055) | SA2 sent SA1 LS on low latency communication applications to use RAN feedback on periodicity for scheduling (S2-2209964). This contribution provides background and discussion motivating a reply LS (S1-223065) and CR (S1-223067). | As to answer to Siemens' comment, Samsung clarified that the periodicity can change, and this case should be considered. | Noted |
| 28 | 3 | [**S1-223068**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223068.zip) | Samsung | [Draft] Reply LS on PIN Management | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PINAPP**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=940021) | Reply LS candidate |  | Revised to S1-223295 |
| 34 | 3 | [**S1-223069**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223069.zip) | vivo | reply LS on PIN managemen | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**PIRates**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=930029) |  |  | Merge into 3068 |
| 32 | 3 | [**S1-223070**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223070.zip) | Samsung, vivo | PIN Management clarification for PIN duration | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0657 |  | F | 18.7.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**PIRates**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=930022) | CR to clarify duration management for LS on PIN Management response. | Not needed according to latest version of the LS in 3538 | Noted |
| 33 | 3 | [**S1-223071**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223071.zip) | Samsung, vivo | PIN Management clarification for PIN duration | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0658 |  | A | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**PIRates**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=930022) | Mirror CR to clarify duration management for LS on PIN Management response. | Samre comment | Noted |
| 05 | 4 | [**S1-223072**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223072.zip) | vivo | New WID on Personal IoT Networks phase 2 | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Revised to S1-223601 |
| 31 | 3 | [**S1-223073**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223073.zip) | Samsung, vivo | PIN Management – Validity duration of the PIN | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | PIRates, FS\_PINAPP | DP to clarify LS on PIN Management response. |  | Noted |
| 07 | 4 | [**S1-223074**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223074.zip) | vivo | Collaboration of different PINs | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0659 |  | B | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | This CR adds requirement for the 5GS to support collaboration of different PINs, subject to agreement between the PIN owners. | There are different ways, including some existing ones, to reach this, according to Ericsson, KPN, Huawei, Nokia. | Revised to S1-223602 |
| 25 | 4 | [**S1-223075**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223075.zip) | vivo | new WID on enhanced network exposure capability | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | This topic is postponed to next meeting to improve the proposal. | Noted. |
| 26 | 4 | [**S1-223076**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223076.zip) | vivo | Discussion on enhanced network exposure capability | discussion |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Revised to S1-223280 |
| 29 | 4 | [**S1-223077**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223077.zip) | vivo | enhanced network exposure capability | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0660 |  | B | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  | Wrong WI code | Noted. |
| 06 | 7.12 | [**S1-223078**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223078.zip) | vivo | SOBOT Use case on real-time cooperative safety protection | pCR | [**22.916**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4097) |  |  |  | 0.1.0 | [**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 S1-223389 |
| 39 | 7.3 | [**S1-223079**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223079.zip) | vivo | use case on virtual humans in metaverse | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223465 |
| 06 | 7.1 | [**S1-223080**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223080.zip) | Nokia, Nokia Shanghai Bell, Huawei, ZTE, Vivo | Pseudo-CR on harmonised KPIs for sensing scenarios | 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) | This contribution proposes harmonised KPIs applicable to all use cases for integrated sensing and communications. |  | Revised to S1-223334 |
| 51 | 7.1 | [**S1-223081**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223081.zip) | Nokia, Nokia Shanghai Bell, Deutsche Telekom | RAN-based discovery of available parking spots | 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) | This contribution proposes a new use case and requirements on discovery of available parking lots via RAN-based sensing. |  | Merge into 3339 |
| 18 | 7.2 | [**S1-223082**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223082.zip) | ZTE Corporation | pCR to remove editor’s notes in clause 5.11 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This contribution adds some clarification, proposes KPIs and removes editor notes for TR22.840 clause 5.11 “Online modification of medical instruments status” |  | Revised to S1-223358 |
| 21 | 7.2 | [**S1-223083**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223083.zip) | ZTE Corporation | pCR to remove editor’s notes in clause 5.2 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This contribution adds some descriptions, proposes KPIs and removes editor notes for TR22.840 clause 5.2 “medical instruments inventory management and positioning”. |  | Revised to S1-223359 |
| 10 | 7.9.1 | [**S1-223084**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223084.zip) | Intel | Use Case on UE with Multibeam and Multistream 3GPP Access | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-223396 |
| 18 | 4 | [**S1-223085**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223085.zip) | Intel | New WID on Introduction to Support WBA OpenRoaming Framework for the Interconnect between SNPN & Credentials Holder (CH) | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Revised to S1-223600 |
| 22 | 4 | [**S1-223086**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223086.zip) | Intel | Introduction to Support WBA OpenRoaming Framework for the Interconnect between SNPN & Credentials Holder (CH) | discussion | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 23 | 4 | [**S1-223087**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223087.zip) | Intel | Introduction to Support WBA OpenRoaming Framework for the Interconnect between SNPN & Credentials Holder (CH) | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0661 |  | B | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  | No track changes on cover page, Wrong WI code | Noted |
| 61 | 7.2 | [**S1-223088**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223088.zip) | Intel | Use case on Applications requiring Fault-tolerant and Time bound Reliable ambientIoT communication. | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223324 |
| 77 | 7.3 | S1-223089 | Intel | Use Case on Digital Twin (DT) Security | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 |
| 41 | 7.3 | [**S1-223090**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223090.zip) | Intel | Use Case on 3GPP based Digital Twin (DT) Security | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223466 |
| 42 | 3 | [**S1-223091**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223091.zip) | Qualcomm | Draft Reply LS on Progress and open issues for NPN enhancements in Rel-18 | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Proposed answer to 3267.  It is proposed to answer: the home network does not the use of authorize automatic or manual network selection. Note that the home network will authorize or not authorize access to the selected hosting network whenever operator credentials are used during the registration procedure. | For Huawei, there are different steps to be identified: registration, authorisation, etc. The answer LS should be clear on these different steps. | Revised to S1-223297 |
| 57 | 7.1 | [**S1-223092**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223092.zip) | Qualcomm | Use case on Seamless XR Streaming | 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) |  |  | Revised to S1-223340 |
| 61 | 7.1 | [**S1-223093**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223093.zip) | Rakuten Mobile, Inc | 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) | This contribution proposes a new use case for FS\_Sensing |  | Revised to S1-223341 |
| 43 | 7.3 | [**S1-223094**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223094.zip) | China Telecom, Tencent | New Use Case on Access to Avatars | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223312 |
| 15 | 7.1 | [**S1-223095**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223095.zip) | China Telecom, vivo | Update of Use case on Rainfall Monitoring | 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) |  |  | Revised to S1-223292 |
| 14 | 7.9.1 | [**S1-223096**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223096.zip) | SKY Perfect JSAT Corporation | NTN and TN Inter-PLMN Multi-access in a Maritime scenario | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-223397 |
| 47 | 7.3 | [**S1-223097**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223097.zip) | NTT DOCOMO INC. | New use case of Work delegation to autonomous virtual alter ego | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223459 |
| 52 | 7.3 | [**S1-223098**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223098.zip) | NTT DOCOMO INC. | New use case of Information access service from public UE | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223460 |
| 64 | 7.1 | [**S1-223099**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223099.zip) | Qualcomm | Use case on Automotive Sensing Assisted Wireless Communication | 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) |  |  | Revised to S1-223342 |
| 19 | 7.1 | [**S1-223100**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223100.zip) | Qualcomm | Update to Clause 5.10 | 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) |  |  | Revised to S1-223492 |
| 24 | 7.2 | [**S1-223101**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223101.zip) | Qualcomm | Update to Clause 5.8 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223356 |
| 26 | 7.2 | [**S1-223102**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223102.zip) | Qualcomm | Update to Clause 5.7 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223357 |
| 13 | 7.11 | [**S1-223103**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223103.zip) | China Mobile E-Commerce Co. | pCR EnergyServ use case of supporting different energy efficiency modes in industrial campus | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 S1-223434 |
| 17 | 7.11 | [**S1-223104**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223104.zip) | China Mobile E-Commerce Co. | pCR EnergyServ use case of achieving energy efficiency by supporting different levels of service quality | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 S1-223435 |
| 56 | 7.3 | [**S1-223105**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223105.zip) | China Mobile Com. Corporation | Pseudo-CR on Use case of virtual store in a metaverse marketplace | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223458 |
| 19 | 7.11 | [**S1-223106**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223106.zip) | China Mobile E-Commerce Co., ZTE | pCR EnergyServ use case of selecting network fault detection algorithm based on energy efficiency analysis | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 S1-223448 |
| 23 | 7.11 | [**S1-223107**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223107.zip) | China Mobile E-Commerce Co., 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) |  |  |  | 0.1.0 | [**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 S1-223449 |
| 26 | 7.11 | [**S1-223108**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223108.zip) | China Mobile E-Commerce Co. | pCR EnergyServ use case of reusing location information for PLMN and NPN of the same operator to save energy | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 |
| 59 | 7.3 | [**S1-223109**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223109.zip) | China Mobile E-Commerce Co. | pCR Metaverse use case of cooperation between metaverse service and network | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223472 |
| 62 | 7.3 | [**S1-223110**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223110.zip) | China Mobile E-Commerce Co. | pCR Metaverse use case of supporting virtual meeting room of financial services | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223473 |
| 17 | 7.3 | [**S1-223111**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223111.zip) | China Mobile E-Commerce Co. | pCR Metaverse updated use case 5.8 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223446 |
| 02 | 4 | [**S1-223112**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223112.zip) | China Mobile E-Commerce Co. | 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) |  |  | Noted |
| 66 | 7.1 | [**S1-223113**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223113.zip) | China Mobile E-Commerce Co. | pCR Sensing use case of integrated sensing and communication in smart grid | 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) |  |  | Revised to S1-223343 |
| 64 | 7.2 | [**S1-223114**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223114.zip) | CATT | use case on Ambient IoT for Last Mile Delivery Tracking | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223325 |
| 27 | 7.4 | [**S1-223115**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223115.zip) | CATT | Considerations on security\_r2 | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**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 S1-223420 |
| 23 | 7.4 | [**S1-223116**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223116.zip) | CATT | use case of long-distance mobility in and across shared network | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**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 S1-223412 |
| 19 | 7.7 | [**S1-223117**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223117.zip) | CATT | use case on vehicle fleet management in the desert | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223396 |
| 22 | 7.7 | [**S1-223118**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223118.zip) | CATT | Use case on service differentiation for UEs via satellite access | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223397 |
| 01 | 6.1 | [**S1-223119**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223119.zip) | Google Inc. | Clarification on the periodic network selection for SENSE | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0344 |  | F | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | The CR makes the following change:  The UE shall not perform periodic network selection for SENSE when:  - The UE is registered to higher priority PLMN/ACT; and  - The signal threshold is equal or higher than the operator-controlled signal threshold | The wole idea of Sense is to keep what is in steering and roaming, including periodic scan, so T\_Mobile cannot agree with this CR. Qualcomm has the same understanding.  To be continued off-line | Revised to S1-223313 |
| 37 | 3 | [**S1-223120**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223120.zip) | Xiaomi Technology | [Draft] Reply LS on Latency impact for NTN verified UE location | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | This is a draft Reply LS on Latency impact for NTN verified UE location. |  | Revised to S1-223296 |
| 22 | 7.1 | [**S1-223121**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223121.zip) | HuaWei Technologies Co., Ltd | New requirement for forbidden sensing area | 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) |  |  | Revised to S1-223493 |
| 69 | 7.1 | [**S1-223122**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223122.zip) | HuaWei Technologies Co., Ltd | New use case\_sensing for traffic condition in urban intersection | 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) |  |  | Revised to S1-223344 |
| 26 | 7.1 | [**S1-223123**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223123.zip) | HuaWei Technologies Co., Ltd | Update of KPI table for pedestrian intrusion detection on a highway | 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) |  |  | Revised to S1-223495 |
| 78 | 7.3 | S1-223124 | China Mobile E-Commerce Co. | pCR Metaverse use case of key information synchronization among multiple metaverses | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 |
| 24 | 7.1 | [**S1-223125**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223125.zip) | HuaWei Technologies Co., Ltd | Update of KPI table for railway intrusion 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) |  |  | Revised to S1-223494 |
| 01 | 7.4.1 | [**S1-223126**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223126.zip) | China Unicom | Cover sheet of the TR22.851 for approval | TS or TR cover | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_NetShare**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950006) | Cover sheet of the TR22.851 for approval |  | Revised to S1-223421 |
| 27 | 7.11 | [**S1-223127**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223127.zip) | ZTE, CMCC | new UC EE of NG-RAN node per site | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 efficiency information of NG-RAN nodes per site |  | Revised to S1-223450 |
| 28 | 7.2 | [**S1-223128**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223128.zip) | vivo | KPI update for Ambient IoT in personal belongings finding | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223360 |
| 67 | 7.2 | [**S1-223129**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223129.zip) | vivo | New use case: Ambient IoT in Smart Agriculture | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223326 |
| 113 | 7.2 | [**S1-223130**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223130.zip) | vivo | Ambient IoT PCR: Categorization proposal for Service Requirements | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Noted |
| 30 | 7.11 | [**S1-223131**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223131.zip) | ZTE, CMCC | new UC EE information exposure under NPN | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 efficiency information in PNI-NPN/SNPN scenarios including RAN sharing case |  | Revised to S1-223451 |
| 33 | 7.11 | [**S1-223132**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223132.zip) | ZTE, CMCC | new UC End to end EE of all kind of network entities | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 end to end energy efficiency information collecting which includes all kind of network entities |  | Merged to 3432 |
| 12 | 3 | [**S1-223133**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223133.zip) | LG Electronics | Discussion on LS on SENSE for home PLMN and disaster roaming PLMN | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | CT1 sent SA1 an LS on SENSE for home PLMN and disaster roaming PLMN (C1-226124). This discussion paper considers how SA1 should reply. | Several options are provided for answers to the 2 questions. These are the next 5 documents (3134 to 3138).  Option B is the one which is the most similar to Deutsche Telekom.  This is Qualcomm's preferred approach too.  LG prefers options A or B.  Nokia, Apple, Qualcomm, Huawei, Vodafone prefer the DT's approach (LG option B).  DT or Mediatek  Supporting DT: 25 companies  Supporting Mediatek: 3 companies  The answer will be based on DT's proposal. | Noted |
| 11 | 3 | [**S1-223134**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223134.zip) | LG Electronics | [draft] Reply LS on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Reply LS on SENSE for home PLMN and disaster roaming PLMN |  | Merge into 3291 |
| 13 | 3 | [**S1-223135**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223135.zip) | LG Electronics | Clarification for SENSE requirements (CT1 LS Question 1) | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0345 |  | F | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Add the new NOTE to clarify clearly the SENSE requirement |  | Revised to S1-223309 |
| 16 | 3 | [**S1-223136**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223136.zip) | LG Electronics | Clarification for SENSE and MINT requirements (Option A for CT1 LS Question 2) | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0662 |  | F | 18.7.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Add the new NOTE to clarify clearly the SENSE and MINT requirement |  | Noted |
| 17 | 3 | [**S1-223137**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223137.zip) | LG Electronics | Clarification for SENSE and MINT requirements (Option B for CT1 LS Question 2) | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0346 |  | F | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Add the new NOTE to clarify clearly the SENSE and MINT requirement |  | Noted |
| 18 | 3 | [**S1-223138**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223138.zip) | LG Electronics | Clarification for SENSE and MINT requirements (Option C for CT1 LS Question 2) | CR | [**22.011**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0347 |  | F | 18.3.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SENSE**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) | Add the new NOTE to clarify clearly the SENSE and MINT requirement |  | Noted |
| 10 | 7.4 | [**S1-223139**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223139.zip) | China Unicom | Updated Use Case on Service Continuity and QoS Requirements | pCR | [**22.851**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4047) |  |  |  | 0.2.0 | [**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 update of service continuity and QoS requirements for the non-N2 shared network in TR22.851V0.2.0. |  | Revised to S1-223411 |
| 06 | 7.7 | [**S1-223140**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223140.zip) | Huawei Technologies R&D UK | Pseudo-CR on updates to clause 5.4 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223392 |
| 08 | 7.7 | [**S1-223141**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223141.zip) | Huawei Technologies R&D UK | Pseudo-CR on updates to clause 5.6 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223393 |
| 20 | 7.3 | [**S1-223142**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223142.zip) | Huawei Technologies R&D UK | Pseudo-CR on updates to clause 5.3 | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223447 |
| 71 | 7.1 | [**S1-223143**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223143.zip) | BUPT, China Mobile, CATT, OPPO | Use case on privacy protection of sensing measurement process | 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) |  |  | Revised to S1-223345 |
| 03 | 6.1 | [**S1-223144**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223144.zip) | ETRI, KT Corp, SK Telecom, LG Uplus | Corrections of message length and encoding for KPAS services | CR | [**22.268**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=639) | 0077 |  | F | 18.1.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**TEI18**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) | This CR proposes to modify the message length by characters only and include the message length according to coding schemes to support warning notifications in different languages. |  | Revised to S1-223310 |
| 73 | 7.1 | [**S1-223145**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223145.zip) | BUPT, China Mobile, CATT, OPPO | Use case on confidentiality and integrity protection for coordinated sensing | 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) |  |  | Revised to S1-223347 |
| 35 | 7.1 | [**S1-223146**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223146.zip) | ZTE, CMCC | Update section 5.12 | 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) | This contribution proposes to update the use case of network assisted sensing to avoid UAV collision |  | Revised to S1-223298 |
| 76 | 7.1 | [**S1-223147**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223147.zip) | ZTE, CMCC | new UC: AMR collision avoidance in smart factories | 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) | This contribution proposes a new use case about AMR collision avoidance in smart factories. |  | Revised to S1-223346 |
| 79 | 7.1 | [**S1-223148**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223148.zip) | NTT DOCOMO, NTT | Pseudo-CR on Use case on HAPS maritime surveillance | 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) | This contribution proposes a new use case for FS\_Sensing. |  | Noted |
| 80 | 7.1 | [**S1-223149**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223149.zip) | NTT DOCOMO, NTT | Pseudo-CR on Full tracking for immersive experience in Metaverse | 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) | This contribution proposes a new use case for FS\_Sensing. |  | Revised to S1-223483 |
| 47 | 3 | [**S1-223150**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223150.zip) | NTT DOCOMO | [DRAFT] Reply LS on SNAAPP requirements clarifications | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Proposed answer to 3272 |  | Revised to S1-223299 |
| 24 | 3 | [**S1-223151**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223151.zip) | NTT DOCOMO | [DRAFT] Reply LS on low latency communication applications to use RAN feedback on periodicity for scheduling | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | SA1 would like to provide the following comments:  - There is no SA1 requirement that literally specifies the mentioned aspect. But there is a strict low latency communication KPI requirement as shown in the first row of Table 5.2-1 of TS 22.104, which is End-to-end latency maximum (incl. 1 wireless link) being 500 μs.  - SA1 expects that downstream working groups pay attention to this KPI value and consider necessary architecture enhancement when needed. SA1 does not prevent downstream working groups from specifying the mentioned mechanism if that is beneficial to fulfil this KPI value. | DoCoMo has a position quite similar to Samsung's one.  No strong view on whether a CR is needed or not.  Was Revised to S1-223290 but conflict with numbers | Revised to S1-223317 |
| 65 | 7.3 | [**S1-223152**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223152.zip) | vivo | Discussion on energy consequence of metaverse media communication | discussion | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  | Not opened | Not Handled |
| 23 | 7.3 | [**S1-223153**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223153.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) |  |  |  | 0.2.0 | [**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 S1-223461 |
| 66 | 7.3 | [**S1-223154**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223154.zip) | vivo | Pseudo-CR on communication power consumption analysis on mobile metaverse services | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223468 |
| 10 | 4 | [**S1-223155**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223155.zip) | ZTE Corporation, CEPRI, China Telecom, China Unicom, LG Electronics | New WID on Measurement Data Collection | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Revised to S1-223315 |
| 18 | 7.9.1 | [**S1-223156**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223156.zip) | IIT Bombay | Use case on Dual Steering through Satellite access and UAV | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | Satellite access network is one of the potential technologies that can provide ubiquitous network services to users in poor terrestrial coverage areas. However, satellite coverage may be sparse to users located in interior parts of archaeological or mining sites/in villages covered by dense forests/in a valley/next to a hill or a large building. Thus, dual steering involving satellite access along with Uncrewed Aerial Vehicles (UAVs) mounted with gNodeB/relay node would be feasible to provide better connectivity to these underserved areas. |  | Revised to S1-223294 |
| 39 | 7.1 | [**S1-223157**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223157.zip) | vivo | Update use case on sleep monitoring | 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) | To add missing KPIs, and delete ENs. | Moved from 7.2 | Revised to S1-223501 |
| 103 | 7.1 | [**S1-223158**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223158.zip) | vivo, CMCC | Use case on accurate sensing for automotive maneuvering and navigation | 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) | Introduce a use case of how to achieve accurate sensing for high reliability required service into the sensing TR. | Moved from 7.2 | Revised to S1-223490 |
| 84 | 7.1 | [**S1-223159**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223159.zip) | vivo | Use case on roaming for sensing service of sports monitoring | 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) | Introduce a use case of how to enable roaming regarding sensing service into the sensing TR | Moved from 7.2 | Revised to S1-223348 |
| 09 | 7.1 | [**S1-223160**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223160.zip) | vivo, Deutsche Telekom, Nokia, CMCC | Definition on KPI indicators | 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) | Update the definition part to include sensing entity and sensing processin entity as discussed in SA1#99e, and include a new subsection to describe the key performance indicator | Moved from 7.2 | Revised to S1-223335 |
| 12 | 4 | [**S1-223161**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223161.zip) | ZTE Corporation, LG Electronics | New requirements for QoS monitoring | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0647 | 2 | B | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | This CR corrects that QoS monitoring is not able to support per packet granularity for network operators and vertical industry users. Also, QoS monitoring refresh rate requirement is not clear. | Siemens proposes to add a note: Note x: QoS monitoring information may include information on data packets before and after data packets not theeting the required QoS in order to provide context.  For Ericsson, the CR is not self-explanatory and implies to have attended a drafting session to be understood. | Revised to S1-223316 |
| 07 | 7.2 | [**S1-223162**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223162.zip) | OPPO | On ambient power and energy storage | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Discussion on ambient power and energy storage |  | Noted |
| 30 | 7.2 | [**S1-223163**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223163.zip) | OPPO | Pseudo-CR on updates to clause 5.14 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | This document provides a Text Proposal for the definition on Ambient IoT device and the scope of the TR. |  | Revised to S1-223361 |
| 08 | 7.2 | [**S1-223164**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223164.zip) | OPPO | Pseudo-CR on Ambient power and energy storage for Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Abstract: In the combination contribution [], ambient power and energy storage is discussed. This document provides a Text Proposal on aspects such as typical ambient power sources suitable for ambient IoT, brief introduction of the technical principle on how energy is harvested from the ambient power, the amount of power can be available and the potential applicable use cases for each kind of ambient power source. |  | Revised to S1-223322 |
| 10 | 7.2 | [**S1-223165**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223165.zip) | OPPO | Discussion on remaining issue on KPI table template | discussion | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  |  |  |  | Discussion on remaining issue on KPI table template | "traffic interval" to be changed to "transfer interval"  One Column to be changed  Titles to be put vertically rather than horizontally.  Word instead of PPT. | Revised to S1-223544 |
| 13 | 7.2 | [**S1-223166**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223166.zip) | OPPO | Pseudo-CR to update the KPI tables in TR 22840 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Abstract: This document provides a Text Proposal to update all the KPI table in TR22840 with a uniform KPI table template. | The editor will adapt all the KPI to the new format of KPI table. Delegates will be given an opportunity to review this adaptation when the draft TR will be circulating.  Editorial changes within the tables can be done.  Was Revised to S1-223362 | Endorsed |
| 26 | 7.7 | [**S1-223167**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223167.zip) | IIT Bombay | Usage of satellite connectivity for collection of information to aid terrestrial network planning | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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) | Network deployment in sparsely populated unconnected areas has been a major concern for many developing countries worldwide due to numerous challenges like affordability, infrastructure unavailability, and landscape or topographic conditions associated with access network deployments. Satellite connectivity can help to serve such unserved areas. However, satellite access may not suffice in all scenarios and there may be a need for terrestrial network deployment also. In such a situation, satellite connectivity can also facilitate information collection related to UE location and usage statistics, which can later be used for terrestrial network planning in these areas. |  | Revised to S1-223393 |
| 04 | 7.2 | [**S1-223168**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223168.zip) | OPPO | Pseudo-CR on definition and scope for Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Abstract: This document provides a Text Proposal for the definition on Ambient IoT device and the scope of the TR. |  | Revised to S1-223321 |
| 28 | 7.1 | [**S1-223169**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223169.zip) | OPPO | Update for Use case of intruder detection in smart home | 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) | Abstract: This document is to revise the use case of intruder detection in smart home for FS\_Sensing which has captured into TR22.837 |  | Revised to S1-223496 |
| 87 | 7.1 | [**S1-223170**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223170.zip) | OPPO | Use case of gesture recognition in smart home | 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) | Abstract: This document is to propose a new use case of gesture recognition in smart home for FS\_Sensing which is expected to be captured into TR22.837 |  | Revised to S1-223349 |
| 112 | 7.2 | [**S1-223171**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223171.zip) | OPPO | Consolidation on Functional Requirement of Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Abstract: it is proposed to put the functional requirements into different categories. Then make CPR mapping table under each category for consolidation. |  | Noted |
| 06 | 7.6 | [**S1-223172**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223172.zip) | OPPO, Xiaomi | New Use Case - Direct device connection assisted Async FL | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.1.0 | [**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) | Abstract: This document proposes a new use case and related potential requirements in FS\_AIML\_Ph2 TR 22.876 version 0.1.0. |  | Revised to S1-223414 |
| 16 | 7.6 | [**S1-223173**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223173.zip) | OPPO, Xiaomi | 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) |  |  |  | 0.1.0 | [**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) | Abstract: This document is to update the use case for proximity based work task offloading in TR 22.876 clause 5.1. |  | Revised to S1-223417 |
| 09 | 7.6 | [**S1-223174**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223174.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) |  |  |  | 0.1.0 | [**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) | Abstract: 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 0.1.0. |  | Revised to S1-223415 |
| 60 | 3 | [**S1-223175**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223175.zip) | OPPO | [Draft] Reply LS on QoS Sustainability analytics and V2X service adaptations | LS out |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Draft reply to 5GAA LS on QoS Sustainability analytics and V2X service adaptations |  | Revised to S1-223318 |
| 30 | 7.1 | [**S1-223176**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223176.zip) | China Mobile Com. Corporation | pCR on updates on use case sensing for UAV intrusion 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) |  |  | Revised to S1-223497 |
| 33 | 7.1 | [**S1-223177**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223177.zip) | China Mobile Com. Corporation | pCR on updates on use case on sensing for tourist spot traffic management | 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) |  |  | Revised to S1-223498 |
| 31 | 4 | [**S1-223178**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223178.zip) | OPPO | New WID on Information Exposure to Application in UE | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | New WID on Information Exposure to Application in UE |  | Revised to S1-223661 |
| 32 | 7.2 | [**S1-223179**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223179.zip) | China Mobile Com. Corporation | pCR on update service requirements for use case: Ambient IoT for Base Station Machine Room Environmental Supervision | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223480 |
| 35 | 7.2 | [**S1-223180**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223180.zip) | China Mobile Com. Corporation | pCR on Update service requirements for use case-Ambient\_IoT for automated warehousing | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  | Accuracy format to be changed. | Revised to S1-223481 |
| 33 | 4 | [**S1-223181**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223181.zip) | OPPO | Discussion for Information Exposure to Application in UE | discussion |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Discussino paper for the new WID Information Exposure to Appliaction in UE |  | Revised to S1-223281 |
| 06 | 7.2 | [**S1-223182**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223182.zip) | China Mobile Com. Corporation | pCR on updates to Definitions of Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Noted |
| 38 | 7.2 | [**S1-223183**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223183.zip) | Xiaomi Technology | Update to Use case on LCS of Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | The update to Use case on LCS of Ambient IoT is proposed. | Some KPI values to be put FFS or square brackets. | Revised to S1-223363 |
| 03 | 7.8 | [**S1-223184**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223184.zip) | China Mobile Com. Corporation | pCR on updates on use case on supporting UAV pre-flight preparation | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223436 |
| 08 | 7.8 | [**S1-223185**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223185.zip) | China Mobile Com. Corporation | New use case: Use case for network-assisted UAV DAA | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223438 |
| 11 | 7.8 | [**S1-223186**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223186.zip) | China Mobile Com. Corporation | New use case: Use case for supporting USS/UTM relocation | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223439 |
| 34 | 7.11 | **[S1-223187](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223187.zip)** | TOYOTA MOTOR CORPORATION | TR22.882 – A new use case on the priority utilization of renewable energy | pCR | [**22.882**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4096) |  |  |  | 0.1.0 | [**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 the priority utilization of renewable energy for TR22.882 (FS\_EnergyServ: Study on Energy Efficiency as service criteria). |  | Revised to S1-220279 |
| 90 | 7.1 | [**S1-223188**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223188.zip) | TOYOTA MOTOR CORPORATION | TR22.837 – A new use case on UE identification for coordinated | 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) | This contribution proposes a new use case on UE identification for coordinated autonomous driving for TR22.837 (FS\_Sensing: Study on Integrated Sensing and Communication). | Was Revised to S1-223350 | Noted |
| 35 | 4 | [**S1-223189**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223189.zip) | OPPO | TS22.261 CR Clarification on requirement of information exposure to applaction in UE | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0663 |  | F | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**TEI18**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) | Clarification on requirement of information exposure to applaction in UE | More time needed for discussions, at least for Telefonica | Revised to S1-223662 |
| 72 | 7.2 | [**S1-223190**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223190.zip) | Xiaomi | Use Case on Ambient IoT for Museum Guide | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223327 |
| 14 | 7.8 | [**S1-223191**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223191.zip) | Huawei Technologies Sweden AB | New use case: 3GPP network as an information source to the UTM | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223430 |
| 92 | 7.1 | [**S1-223192**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223192.zip) | Xiaomi Communications | New use case on privacy protection of sensing target | 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) |  |  | Revised to S1-223351 |
| 75 | 7.2 | [**S1-223193**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223193.zip) | Xiaomi | Use Case on Ambient IoT for Environmental Monitoring of Meseum Exhibits | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223328 |
| 77 | 7.2 | [**S1-223194**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223194.zip) | Xiaomi | Use Case on Ambient IoT for Self-service Library | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223329 |
| 94 | 7.1 | [**S1-223195**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223195.zip) | Xiaomi Communications | New use case on sensing assisted high-definition map construction | 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) |  |  | Revised to S1-223487 |
| 40 | 7.2 | [**S1-223196**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223196.zip) | Xiaomi Technology | Update to Use case on Ranging of Ambient IoT | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | The Update to Use case on Ranging of Ambient IoT is proposed. |  | Revised to S1-223364 |
| 01 | 5 | [**S1-223197**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223197.zip) | Huawei Technologies Sweden AB | Editorial Corrections to TS 22.261 on PALS | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0664 |  | D | 18.7.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**PALS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920038) |  |  | Revised to S1-223303 |
| 03 | 5 | [**S1-223198**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223198.zip) | Huawei Technologies Sweden AB | Editorial Corrections to TS 22.261 on PALS | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0665 |  | A | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**PALS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920038) |  |  | Revised to S1-223304 |
| 05 | 5 | [**S1-223199**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223199.zip) | Huawei Technologies Sweden AB | Editorial Corrections to Annexes in TS 22.261 | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0666 |  | D | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**TEI**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=60094) |  | Problems on coverpage  "TEI19, Smarter" to be used, TEI19 to be introduced in the Work Plan.  Impacted clauses wrong. | Revised to S1-223308 |
| 97 | 7.1 | [**S1-223200**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223200.zip) | Huawei Technologies Sweden AB | New use case: Immersive experience based on Sensing | 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) |  |  | Revised to S1-223488 |
| 53 | 7.1 | [**S1-223201**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223201.zip) | Huawei | New use case: Sensing for parking space determination | pCR | [**22.837**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4044) |  |  |  | 0.1.0 | [**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 S1-223339 |
| 05 | 6.1 | [**S1-223202**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223202.zip) | Kyonggi University | Minor editorial modification on the definition of location | CR | [**22.280**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 0156 |  | D | 18.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**TEI18**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) | In this CR, we propose to have a minor editorial modification on the existing definition of 'Location'. This modification is needed because the meaning of the existing definition can become clearer with an editorial corretion. | For Nokia, this might be creating bigger to problem to change, at this stage, something which has been used for so long.  replaced by Rel-19 version in S1-223314 | Noted |
| 22 | 7.9.1 | [**S1-223203**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223203.zip) | Futurewei Technologies | Use Case on inter PLMN or PLMN-SNPN scenario for URLLC service | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | This paper proposes a new use case to be captured in TR 22.841 v.0.1.0. |  | Revised to S1-223300 |
| 70 | 7.3 | [**S1-223204**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223204.zip) | CableLabs | New Use Case - Metaverse Multi Access Scenario | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 S1-223474 |
| 25 | 7.9.1 | [**S1-223205**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223205.zip) | Futurewei Technologies | Use Case on intra-PLMN for XRM service | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | Abstract: This paper proposes a new use case to be captured in TR 22.841 v.0.1.0. |  | Revised to S1-223301 |
| 42 | 7.2 | [**S1-223206**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223206.zip) | China Telecommunications | Pseudo-CR to remove editor’s notes in clause 5.6 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223365 |
| 03 | 7.2 | [**S1-223207**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223207.zip) | KPN N.V. | Clean up FS\_Ambient IoT TR | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Agreed |
| 45 | 7.2 | [**S1-223208**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223208.zip) | KPN, Huawei | Update of KPI values in traffic scenario 6.1 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223366 |
| 39 | 4 | [**S1-223209**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223209.zip) | CATT | Discussion on Positioning Services for UEs connecting via Dual 3GPP Access | discussion |  |  |  |  |  |  |  |  |  | Revised to S1-223286 |
| 10 | 7.7 | [**S1-223210**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223210.zip) | China Telecommunications | Pseudo-CR on updates to clause 5.7 | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223289 |
| 07 | 7.9.1 | [**S1-223211**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223211.zip) | Qualcomm | TR scope | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) | Includes text proposal for TR scope, plus one EN for the Overview sections |  | Revised to S1-223395 |
| 28 | 7.9.1 | [**S1-223212**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223212.zip) | Qualcomm CDMA Technologies | Use Case on intra-PLMN traffic duplication | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-223407 |
| 41 | 4 | [**S1-223213**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223213.zip) | CATT | 22.071 v17.0.0 New requirements for DualAccessLCS | CR | [**22.071**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=584) | 0084 |  | B | 17.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Noted |
| 31 | 7.9.1 | [**S1-223214**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223214.zip) | Qualcomm | Use Case on dual 3GPP access in VPLMN scenarios | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-223408 |
| 33 | 7.9.1 | [**S1-223215**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223215.zip) | Qualcomm | Use Case on interworking with non-3GPP access | pCR | [**22.841**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4095) |  |  |  | 0.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_DualSteer**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960018) |  |  | Revised to S1-223409 |
| 42 | 4 | [**S1-223216**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223216.zip) | CATT | 22.261 v19.0.0 New requirements on DualAccessLCS | CR | [**22.261**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0667 |  | B | 19.0.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**DUMMY**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | Noted |
| 18 | 7.8 | [**S1-223217**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223217.zip) | Qualcomm | Use case on different UAV traffic over two networks | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223454 |
| 38 | 4 | [**S1-223218**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223218.zip) | CATT | New WID on 5G Positioning Service for UE connecting to Dual 3GPP access | WID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  | Rev2 presented The objective is to study and specify service requirements that could benefit from 5GS support of improved positioning service for UEs connecting to two 3GPP access networks. | Concerned raised off-line by T-Mobile were not addressed | Noted |
| 20 | 7.8 | [**S1-223219**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223219.zip) | Qualcomm | Use case on UAV traffic over alternative networks | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223455 |
| 30 | 7.7 | [**S1-223220**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223220.zip) | China Telecommunications | New use case for enabling multiple services between UEs | pCR | [**22.865**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4089) |  |  |  | 0.1.0 | [**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 S1-223290 |
| 73 | 7.3 | [**S1-223221**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223221.zip) | Ericsson | Privacy-Aware Dynamic Network Exposure in Immersive Interactive Experiences | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**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 introduce a new use case for privacy-aware dynamic network exposures to be used by users of Immersive Interactive Experiences. |  | Revised to S1-223476 |
| 48 | 7.2 | [**S1-223222**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223222.zip) | Huawei Technologies France | update to traffic scenario 6\_2 | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Latency is not critical for this use case, value is updated to be more realistic. |  | Revised to S1-223367 |
| 80 | 7.2 | [**S1-223223**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223223.zip) | Huawei Technologies France | use case-grazing dairy farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Resubmission of use case from SA1 99e. |  | Revised to S1-223330 |
| 84 | 7.2 | [**S1-223224**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223224.zip) | Huawei Technologies France | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Resubmission of livestock farming- smart pig farm with Ambient IoT. |  | Revised to S1-223331 |
| 53 | 3 | [**S1-223225**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223225.zip) | China Mobile E-Commerce Co. | Reply LS on DN energy efficiency data analytics | LS out |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EnergyServ**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=960019) |  |  | Revised to S1-223302 |
| 89 | 7.2 | [**S1-223226**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223226.zip) | Huawei Technologies France | Use case smart monitoring of manhole cover using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Use case of smart monitoring of manhole covers using Ambient IoT to largely increase road safety for pedestrians, cyclists, motorcyclists, etc. |  | Revised to S1-223332 |
| 52 | 7.1 | [**S1-223227**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223227.zip) | Ericsson France S.A.S | Sensing for parking space determination | 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) | Introducing a new use case for sensing in a parking garaage |  | Merge into 3339 |
| 108 | 7.2 | [**S1-223228**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223228.zip) | Ericsson France S.A.S | Annex for considerations when choosing harvesting source | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Some considerations when choosing energy harvesting source |  | Revised to S1-223369 |
| 111 | 7.2 | [**S1-223229**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223229.zip) | KPN | Pseudo-CR on Annex A: Ambient IoT availability scenarios | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Agreed |
| 93 | 7.2 | [**S1-223230**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223230.zip) | Huawei Technologies France | Use case smart bridge health monitoring using Ambient IoT v | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | use case of using Ambient IoT to enable smart health monitoring of bridges to avoid tragic catastrophies. |  | Revised to S1-223352 |
| 97 | 7.2 | [**S1-223231**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223231.zip) | Vodafone | Elderly Health Care | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | Elderly Health Care using Ambient IoT devices. |  | Revised to S1-223353 |
| 16 | 7.2 | [**S1-223232**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223232.zip) | Huawei Technologies France | proposal AmbientIoT KPI table for Consolidated KPIs | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) | generic KPI table to use for Consolidated KPI values |  | Noted |
| 15 | 7.2 | [**S1-223233**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223233.zip) | Huawei Technologies France | Discussion paper: generic KPI table proposal for consolidated KPIs | discussion | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Noted |
| 99 | 7.1 | [**S1-223234**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223234.zip) | Xiaomi Communications | Use case on competition of sensing service | 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) |  |  | Noted |
| 52 | 7.2 | [**S1-223235**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223235.zip) | Apple | pCR on Update to Device Activation and Deactivation use case | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Agreed |
| 26 | 7.3 | [**S1-223236**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223236.zip) | InterDigital | Update to the Use Case for supporting Metaverse for Critical HealthCare Services | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Merged to S1-223445 |
| 22 | 7.8 | [**S1-223237**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223237.zip) | InterDigital | New use case for supporting UAV inflight network condition monitoring | pCR | [**22.843**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4090) |  |  |  | 0.1.0 | [**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 S1-223456 |
| 25 | 7.8 | [**S1-223238**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223238.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) |  |  |  | 0.1.0 | [**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 S1-223457 |
| 12 | 7.6 | [**S1-223239**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223239.zip) | InterDigital | Update to the Use Case on AI Model Transfer Management through Direct Device Connection | pCR | [**22.876**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4093) |  |  |  | 0.1.0 | [**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 S1-223416 |
| 15 | 4 | [**S1-223240**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223240.zip) | NOVAMINT, EDF, Quixoticity | New SID on enhancements of Roaming and Interconnection of NPN | SID new |  |  |  |  |  | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |  |  | Revised to S1-223311 |
| 17 | 4 | [**S1-223241**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223241.zip) | NOVAMINT, EDF, Quixoticity | Motivation for a SID on Enhancements of Roaming and Interconnection of NPN | discussion |  |  |  |  |  |  |  |  |  | Noted |
| 17 | 7.5 | [**S1-223242**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223242.zip) | Hansung University | Enhancement of FRMCS naming authority use case | CR | [**22.989**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 0023 |  | C | 19.1.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_FRMCS\_Ph5**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950007) | Enhancement of FRMCS naming authority use case |  | Revised to S1-19223374 |
| 35 | 7.9.1 | [**S1-223243**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223243.zip) | InterDigital | New use case on Inter-PLMN scenario - TN and multiple NTN | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  |  | Revised to S1-223410 |
| 101 | 7.2 | [**S1-223244**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223244.zip) | KPN | pCR on Use case on end-to-end logistics | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223354 |
| 53 | 7.2 | [**S1-223245**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223245.zip) | InterDigital | Update to the Use Case on Ambient IoT for Base Station Machine Room Environmental Supervision | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Noted |
| 54 | 7.2 | [**S1-223246**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223246.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) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223368 |
| 100 | 7.1 | [**S1-223247**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223247.zip) | Lenovo | Use Case of UE-based sensing | 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) |  |  | Revised to S1-223489 |
| 119 | 7.1 | [**S1-223248**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223248.zip) | Lenovo | modes of 5GS sensing service | 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) |  |  | Noted |
| 27 | 7.3 | [**S1-223249**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223249.zip) | Philips International B.V. | Update use case on synchronized predictive avatars | pCR | [**22.856**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4046) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_Metaverse**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950005) |  |  | Agreed |
| 104 | 7.2 | [**S1-223250**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223250.zip) | KPN | pCR on Use case on pressure powered switch | pCR | [**22.840**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=4045) |  |  |  | 0.2.0 | [**Rel-19**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) | [**FS\_AmbientIoT**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=950004) |  |  | Revised to S1-223355 |
| 12 | 7.1 | [**S1-223251**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223251.zip) | Lenovo | KPIs of sensing measurement data | 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) |  |  | Noted |
| 106 | 7.1 | [**S1-223252**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_100_Toulouse/Docs/S1-223252.zip) | Lenovo | Update for Use Case of Walking assistance | 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) | This contribution proposes a new use case for FS\_Sensing which is about providing walking/Manoeuvring assistance based on the 5GS sensing service. |  | Revised to S1-223500 |
| 59 | 3 | [**S1-223253**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223253.zip) | 5GAA WG4 | LS on QoS Sustainability analytics and V2X service adaptations | LS in |  |  |  |  |  |  |  |  |  | Replied in 3734 |
| 72 | 3 | [**S1-223254**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223254.zip) | 5G-ACIA | 5G capabilities exposure for factories of the future – identified gaps | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 73 | 3 | [**S1-223255**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223255.zip) | 5G-ACIA-LS-2022-004 | 5G Edge Computing Use Cases & Requirements | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 74 | 3 | [**S1-223256**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223256.zip) | C1-225154 | Reply to LS on Satellite E-UTRAN on PLMN selector with Access Technology | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 75 | 3 | [**S1-223257**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223257.zip) | C1-225338 | LS on SENSE feature | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 02 | 3 | [**S1-223258**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223258.zip) | C1-226124 | LS on SENSE for home PLMN and disaster roaming PLMN | LS in |  |  |  |  |  |  |  | CT1 is working based on the requirements for SENSE feature in TS 22.011 CR#0322 (S1-213329) and would like to clarify the applicability of the SENSE feature for different PLMNs.  They are asking for some clarifications to SA1. | See related documents. | Replied in 3725 |
| 71 | 3 | [**S1-223259**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223259.zip) | ISO/IEC JTC 1/SC 29 N 20754 | Liaison response to 3GPP SA1 on Haptics | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 76 | 3 | [**S1-223260**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223260.zip) | R2-2210865 | Reply LS on the deactivation of access stratum due to discontinuous coverage | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 36 | 3 | [**S1-223261**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223261.zip) | R2-2211044 | Latency impact for NTN verified UE location | LS in |  |  |  |  |  |  |  |  |  | Replied in 3539 |
| 78 | 3 | [**S1-223262**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223262.zip) | R3-225250 | Reply LS on the user consent for trace reporting | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 64 | 3 | [**S1-223263**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223263.zip) | S2-2205286 | LS on 5GC information exposure to UE | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 79 | 3 | [**S1-223264**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223264.zip) | S2-2207399 | LS Out on Support for managing slice for trusted third-party owned application | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 77 | 3 | [**S1-223265**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223265.zip) | S2-2207420 | Reply LS on the deactivation of access stratum due to discontinuous coverage | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 80 | 3 | [**S1-223266**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223266.zip) | S2-2207691 | LS response on GNSS integrity | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 41 | 3 | [**S1-223267**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223267.zip) | S2-2209860 | Progress and open issues for NPN enhancements in Rel-18 | LS in |  |  |  |  |  |  |  | SA2's question to SA1:  Q1: A UE that intends to access a hosting network, to access localized services, using home network credentials/subscription, can select a hosting network either by automatic network selection or by manual network selection. Does the home network need to authorize the use of such network selection of a hosting network for both automatic and manual network selection or only for automatic network selection, and does it depend on whose credentials the UE uses to access the hosting network? | Proposed answer in 3091 | Replied in 3540 |
| 66 | 3 | [**S1-223268**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223268.zip) | S2-2209910 | Reply LS on User plane solution for 5GC information exposure to UE | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 20 | 3 | [**S1-223269**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223269.zip) | S2-2209964 | LS on low latency communication applications to use RAN feedback on periodicity for scheduling | LS in |  |  |  |  |  |  |  | SA2 ask whether SA1 sees a need for dynamic periodicity adjustment based on 5GS feedback for applications which need low latency communication. |  | Replied in 3726 |
| 81 | 3 | [**S1-223270**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223270.zip) | S2-2209966 | LS on GNSS integrity requirement provisioning | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 65 | 3 | [**S1-223271**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223271.zip) | S3-221621 | LS reply on 5GC information exposure to UE | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 46 | 3 | [**S1-223272**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223272.zip) | S3-222970 | LS on SNAAPP requirements clarifications | LS in |  |  |  |  |  |  |  | Several questions are asked from SA3 to ask for clarifications about SNAAPP requirements. | Proposed answer in 3150 | Postponed |
| 52 | 3 | [**S1-223273**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223273.zip) | S5-224342 | Reply LS on DN energy efficiency data analytics | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 51 | 3 | [**S1-223274**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223274.zip) | S6-221347 | LS on DN energy efficiency data analytics | LS in |  |  |  |  |  |  |  |  |  | Replied in 3542 |
| 57 | 3 | [**S1-223275**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223275.zip) | S6-222340 | Reply LS on Reply LS on Support for managing slice for trusted third-party owned application | LS in |  |  |  |  |  |  |  | Question from SA6: does SA1 have requirements such that high priority users, identified by 3rd party, are able to achieve access to the provided services even when the slice capacity (or a capacity threshold) has been reached? | This was already seen at the previous meeting. | Noted |
| 27 | 3 | [**S1-223276**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223276.zip) | S6-222870 | LS on PIN Management | LS in |  |  |  |  |  |  |  | Two questions to SA1:  Q1: Whether the requirement “Establishing duration of the PIN” can also be considered to include a scheduled validity period such as “Valid during particular time of the day”, “Valid only during weekdays” etc.?  Q2: Whether the PIN owner or Admin can be able to suspend the PIN temporarily as part of PIN management? |  | Replied in 3528 |
| 68 | 3 | [**S1-223277**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223277.zip) | SP-220985 | Reply LS on Facilitating roaming adoption across 3GPP NPN deployments | LS in |  |  |  |  |  |  |  |  |  | Postponed |
| 69 | 3 | [**S1-223278**](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_99e_EM_Aug2022/Docs/S1-223278.zip) | WBA OpenRoaming | LS on Facilitating interconnect between SNPNs and Credentials Holder | LS in |  |  |  |  |  |  |  |  |  | Noted |
| 35 | 7.11 | S1-223279 | TOYOTA MOTOR CORPORATION | TR22.882 – A new use case on the priority utilization of renewable energy | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223187 | Revision of S1-223187. | Noted |
| 27 | 4 | S1-223280 | vivo | Discussion on enhanced network exposure capability | discussion |  |  |  |  |  | Rel-19 |  | Replaces S1-223076 | Problem with file | Revised to S1-223305 |
| 34 | 4 | S1-223281 | OPPO | Discussion for Information Exposure to Application in UE | discussion |  |  |  |  |  | Rel-19 |  | Replaces S1-223181 | Revision of S1-223181. | Noted |
| 03 | 7.5 | S1-223282 | Union Inter. Chemins de Fer | Enhancement of Multi-train voice communication use cases | CR | 22.989 | 0019 | 1 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Replaces S1-223013 | Revision of S1-223013. | Revised to S1-19223371 |
| 06 | 7.5 | S1-223283 | Union Inter. Chemins de Fer | Enhancement of Multiuser talker control use cases | CR | 22.989 | 0020 | 1 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Replaces S1-223014 | Revision of S1-223014 . | Revised to S1-223379 |
| 10 | 7.5 | S1-223284 | Union Inter. Chemins de Fer | Update of QoS in a railway environment use case | CR | 22.989 | 0021 | 1 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Replaces S1-223015 | Revision of S1-223015. | Revised to S1-19223372 |
| 14 | 7.5 | S1-223285 | Union Inter. Chemins de Fer | Enhancement of two use cases of Railway emergency communications | CR | 22.989 | 0022 | 1 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Replaces S1-223016 | Revision of S1-223016. | Revised to S1-19223373 |
| 40 | 4 | S1-223286 | CATT | Discussion on Positioning Services for UEs connecting via Dual 3GPP Access | discussion |  |  |  |  |  |  |  | Replaces S1-223209 | Revision of S1-223209. | Noted |
| 04 | 2 | S1-223287 | SA1 Chair | SA1#100: F2F meeting guidelines | Other |  |  |  |  |  |  |  |  |  | Noted |
| 21 | 4 | S1-223288 | Intel | Slides - Introduction to Support WBA OpenRoaming Framework for the Interconnect between SNPN & Credentials Holder (CH) | discussion |  |  |  |  |  |  |  | The objective is to define normative stage 1 requirements to support WBA OpenRoaming Framework for the interconnect between SNPN & Credentials Holder (CH) using N32. | Huawei would like to have more information about the business model, who would be benefiting from this proposal. Intel answered that it would be mostly operators.  For BCom, resiliency would be improved.  Broadcom and T-Mobile are also supporting T-Mobile acknowledged that this is too "SA2-style" and would have to be rephrased.  For Nokia, this interconnection problem has been an existing issue since Rel-17.  The chair asked who support for 3 types of possible A SID or a WID or nothing  SID: 9 companies  miniWID: 3 companies  Noting: 2 companies | Noted |
| 11 | 7.7 | S1-223289 | China Telecom | Pseudo-CR on updates to clause 5.7 | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223210. | Revised to S1-223394 |
| 31 | 7.7 | S1-223290 | NTT DOCOMO | [DRAFT] Reply LS on low latency communication applications to use RAN feedback on periodicity for scheduling | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223151 | Revision of S1-223151. | Revised to S1-223394 |
| 04 | 3 | S1-223291 | Deutsche Telekom | Reply LS to C1-226124 on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223019 | Revision of S1-223019 . | Revised to S1-223536 |
| 16 | 7.1 | S1-223292 | China Telecom, vivo | Update of Use case on Rainfall Monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223095 | Revision of S1-223095. | Revised to S1-223491 |
| 25 | 7.7 | S1-223293 | IIT Bombay | Usage of satellite connectivity for collection of information to aid terrestrial network planning | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223167 | Revision of S1-223167. | Revised to S1-223402 |
| 19 | 7.9.1 | S1-223294 | IIT Bombay | Use case on Dual Steering through Satellite access and UAV | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223156 | Revision of S1-223156. | Revised to S1-223403 |
| 29 | 3 | S1-223295 | Samsung | [Draft] Reply LS on PIN Management | LS out |  |  |  |  |  | Rel-18 | FS\_PINAPP | Replaces S1-223068 | Revision of S1-223068.  Final clean-up needed  Wrong WG in the future dates | Revised to S1-223538 |
| 38 | 3 | S1-223296 | Xiaomi Technology | [Draft] Reply LS on Latency impact for NTN verified UE location | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223120 | Revision of S1-223120.  Final clean-up needed | Revised to S1-223539 |
| 43 | 3 | S1-223297 | Qualcomm | Draft Reply LS to SA2 SA2, SA3, CT1 (cc CT3, CT4, RAN2, RAN3) on Progress and open issues for NPN enhancements in Rel-18 | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223091 | Revision of S1-223091.  Final clean-up needed | Revised to S1-223540 |
| 36 | 7.1 | S1-223298 | ZTE, CMCC | Update section 5.12 | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223146 | Revision of S1-223146. | Revised to S1-223499 |
| 48 | 3 | S1-223299 | NTT DOCOMO | [DRAFT] Reply LS to SA3 (cc SA6) on SNAAPP requirements clarifications | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223150 | Revision of S1-223150.  Final clean-up needed, kept open upon request of Qualcomm | Revised to S1-223541 |
| 23 | 7.9.1 | S1-223300 | Futurewei Technologies | Use Case on inter PLMN or PLMN-SNPN scenario for URLLC service | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223203 | Revision of S1-223203. | Revised to S1-223405 |
| 26 | 7.9.1 | S1-223301 | Futurewei Technologies | Use Case on intra-PLMN for XRM service | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223205 | Revision of S1-223205. | Revised to S1-223406 |
| 54 | 3 | S1-223302 | China Mobile E-Commerce Co. | Reply LS to SA6 (cc SA5) on DN energy efficiency data analytics | LS out |  |  |  |  |  | Rel-18 | FS\_EnergyServ | Replaces S1-223225 | Revision of S1-223225.  Mismatch SA2/SA6 in the questions | Revised to S1-223542 |
| 02 | 5 | S1-223303 | Huawei Technologies Sweden AB | Editorial Corrections to TS 22.261 on PALS | CR | 22.261 | 0664 | 1 | D | 18.7.0 | Rel-18 | PALS | Replaces S1-223197 | Revision of S1-223197. | Agreed |
| 04 | 5 | S1-223304 | Huawei Technologies Sweden AB | Editorial Corrections to TS 22.261 on PALS | CR | 22.261 | 0665 | 1 | A | 19.0.0 | Rel-19 | PALS | Replaces S1-223198 | Revision of S1-223198. | Agreed |
| 28 | 4 | S1-223305 | vivo | Discussion on enhanced network exposure capability | discussion |  |  |  |  |  | Rel-19 |  | Replaces S1-223280 | Revision of S1-223076. Revision of S1-223280. | Noted |
| 04 | 7.4 | S1-223306 | China Unicom | Update skeleton-TR22851 | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223038 | Update v0.2.0 and generate version 0.2.1 Revision of S1-223038. | Noted |
| 20 | 7.4 | S1-223307 | China Unicom | Use Case on Emergency Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223035 | Revision of S1-223035. | Revised to S1-223419 |
| 06 | 5 | S1-223308 | Huawei Technologies Sweden AB | Editorial Corrections to Annexes in TS 22.261 | CR | 22.261 | 0666 | 1 | D | 19.0.0 | Rel-19 | TEI | Replaces S1-223199 | Revision of S1-223199. | Agreed |
| 14 | 3 | S1-223309 | LG Electronics | Clarification for SENSE requirements (CT1 LS Question 1) | CR | 22.011 | 0345 | 1 | F | 18.3.0 | Rel-18 | SENSE | Replaces S1-223135 | Revision of S1-223135. | Revised to S1-223537 |
| 04 | 6.1 | S1-223310 | ETRI, KT Corp, SK Telecom, LG Uplus | Corrections of message length and encoding for KPAS services | CR | 22.268 | 0077 | 1 | F | 18.1.0 | Rel-18 | TEI18 | Replaces S1-223144 | Revision of S1-223144.  Rev number not good on the cover page.  Cat should be C. | Revised to S1-223681 |
| 16 | 4 | S1-223311 | NOVAMINT, EDF, Quixoticity | New SID on enhancements of Roaming and Interconnection of NPN | SID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223240 | Revision of S1-223240. | Revised to S1-223697 |
| 44 | 7.3 | S1-223312 | China Telecom, Tencent | New Use Case on Access to Avatars | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223094 | Revision of S1-223094. | Revised to S1-223467 |
| 02 | 6.1 | S1-223313 | Google Inc. | Clarification on the periodic network selection for SENSE | CR | 22.011 | 0344 | 1 | F | 18.3.0 | Rel-18 | SENSE | Replaces S1-223119 | Revision of S1-223119. | Revised to S1-223676 |
| 07 | 5 | S1-223314 | Kyonggi University | Minor editorial modification on the definition of location | CR | 22.280 | 0157 |  | D | 18.2.0 | Rel-19 | TEI18 | Replaces S1-223202 |  | Agreed |
| 11 | 4 | S1-223315 | ZTE Corporation, CEPRI, China Telecom, China Unicom, LG Electronics | New WID on Measurement Data Collection | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223155 | Revision of S1-223155.  Online editing on section 4, section 8 content to be deleted.  References to be removed in the tables.  Nokia has issues on the process, what is important is that the CR is agreed. | Revised to S1-223729 |
| 13 | 4 | S1-223316 | ZTE Corporation, LG Electronics | New requirements for QoS monitoring | CR | 22.261 | 0647 | 3 | B | 19.0.0 | Rel-19 | DUMMY | Replaces S1-223161 | Revision of S1-223161. | Revised to S1-223680 |
| 25 | 3 | S1-223317 | NTT DOCOMO | [DRAFT] Reply LS to SA2 on low latency communication applications to use RAN feedback on periodicity for scheduling | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223151 | Revision of S1-223151.  Clean-up | Revised to S1-223726 |
| 61 | 3 | S1-223318 | OPPO | [Draft] Reply LS to SA (cc SA2) on QoS Sustainability analytics and V2X service adaptations | LS out |  |  |  |  |  | Rel-19 |  | Replaces S1-223175 | Npt acceptable for T-Mobile because it states that there will be a new requirement when this is not decided yet.  For Samsung. T-Mobile is referring to another requirement, independent of this topic.  QC proposes to states only "SA1 is discussing Rel-19".  For Nokia, it is better to wait a bit longer as to report future SA1 progress. | Revised to S1-223543 |
|  | 99 | S1-223319 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 02 | 2 | S1-223320 | SA1 Chair | SA1-related topics at SA#97e | Report |  |  |  |  |  |  |  |  | Revision of S1-223006. | Noted |
| 05 | 7.2 | S1-223321 | OPPO | Pseudo-CR on definition and scope for Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223168 | Revision of S1-223168. . | Agreed |
| 09 | 7.2 | S1-223322 | OPPO | Pseudo-CR on Ambient power and energy storage for Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223164 | Revision of S1-223164.  "printed" to be added in front of "solid state battery" | Revised to S1-223698 |
| 58 | 7.2 | S1-223323 | Wiliot Ltd. | New use case: Fresh Food Supply Chain | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223012. | Revised to S1-223547 |
| 62 | 7.2 | S1-223324 | Intel | Use case on Applications requiring Fault-tolerant and Time bound Reliable ambientIoT communication. | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223088.  Different use cases are grouped here, and only teo KPIs are provided, which raises Sony to have concerns. Sony prefers to have the use cases to be dissociated.  To be discusserd off-line. | Revised to S1-223559 |
| 65 | 7.2 | S1-223325 | CATT | use case on Ambient IoT for Last Mile Delivery Tracking | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223114.  Nokia: "the" agreement is odd. Maybe "an" agreement is meant, or just skip this part of the sentence is even better,  T-Mobile, Huawei: 1st requirement talks about business model, this is not acceptable.  Ericsson: if 1st requirement removed, then nothing new is left. | Revised to S1-223572 |
| 68 | 7.2 | S1-223326 | vivo | New use case: Ambient IoT in Smart Agriculture | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223129. | Revised to S1-223482 |
| 73 | 7.2 | S1-223327 | Xiaomi | Use Case on Ambient IoT for Museum Guide | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223190.  Not an "SA1 language", according to Sony.  We cannot have normative requirements in an annex. Req 5 is then agreed to be deleted. | Revised to S1-223562 |
| 76 | 7.2 | S1-223328 | Xiaomi | Use Case on Ambient IoT for Environmental Monitoring of Meseum Exhibits | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223193.  Oppo, as rapporteurask to align the name and the order of the KPI table. | Noted |
| 78 | 7.2 | S1-223329 | Xiaomi | Use Case on Ambient IoT for Self-service Library | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223194.  T-Mobile still has concerns with [PR.5.X.6.1-003. | Revised to S1-223563 |
| 81 | 7.2 | S1-223330 | Huawei | use case-grazing dairy farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223223. | Revised to S1-223551 |
| 85 | 7.2 | S1-223331 | Huawei | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223224. | Revised to S1-223552 |
| 90 | 7.2 | S1-223332 | Huawei | Use case smart monitoring of manhole cover using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223226. | Revised to S1-223553 |
| 04 | 7.1 | S1-223333 | Deutsche Telekom | Pseudo-CR on Definition of 5G wireless sensing | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223023. | Agreed |
| 07 | 7.1 | S1-223334 | Nokia, Nokia Shanghai Bell, Huawei, ZTE, Vivo | Pseudo-CR on harmonised KPIs for sensing scenarios | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223080. | Revised to S1-223484 |
| 10 | 7.1 | S1-223335 | vivo, Deutsche Telekom, Nokia, CMCC | Definition on KPI indicators | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Moved from 7.2 Revision of S1-223160. | Revised to S1-223485 |
| 44 | 7.1 | S1-223336 | Xiaomi | New use case: Vehicle Sensing for ADAS | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223048.  Not enough time to provide it at this meeting. | Withdrawn |
| 46 | 7.1 | S1-223337 | Xiaomi | New use case: In-Vehicle Sensing for life detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223049.  Not enough time to provide it at this meeting. | Withdrawn |
| 48 | 7.1 | S1-223338 | Samsung | 22.837 pCR - Use case on Sensing of Sensor Groups | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223062. | Revised to S1-223505 |
| 54 | 7.1 | S1-223339 | Huawei | New use case: Sensing for parking space determination | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223201. | Revised to S1-223486 |
| 58 | 7.1 | S1-223340 | Qualcomm | Use case on Seamless XR Streaming | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223092. | Revised to S1-223506 |
| 62 | 7.1 | S1-223341 | Rakuten Mobile | Pseudo-CR Use case of sensing on Congestion Detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223093.  The level of what is a "crowd" is not clarified. | Revised to S1-223587 |
| 65 | 7.1 | S1-223342 | Qualcomm | Use case on Automotive Sensing Assisted Wireless Communication | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223099. | Noted |
| 67 | 7.1 | S1-223343 | China Mobile | pCR Sensing use case of integrated sensing and communication in smart grid | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223113.  Changes on changes  2nd requirement to be rephrased | Revised to S1-223588 |
| 70 | 7.1 | S1-223344 | Huawei | New use case\_sensing for traffic condition in urban intersection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223122.  This is still agreeable as such | Noted |
| 72 | 7.1 | S1-223345 | BUPT, China Mobile, CATT, OPPO | Use case on privacy protection of sensing measurement process | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223143. .  Still no agreement on last day | Noted |
| 77 | 7.1 | S1-223346 | ZTE, CMCC | new UC: AMR collision avoidance in smart factories | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223147.  Clean-up needed | Revised to S1-223590 |
| 74 | 7.1 | S1-223347 | BUPT, China Mobile, CATT, OPPO | Use case on confidentiality and integrity protection for coordinated sensing | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223145. | Revised to S1-223589 |
| 85 | 7.1 | S1-223348 | vivo | Use case on roaming for sensing service of sports monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Moved from 7.2 Revision of S1-223159.  Clean-up needed | Revised to S1-223592 |
| 88 | 7.1 | S1-223349 | OPPO | Use case of gesture recognition in smart home | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223170.  Vodafone: what do you mean by " or the presence of human body" in the 1st requirement?  T-Mobile: 2nd requirement is not clear.  Oppo: OK to remove the controversial text and to try to clarify. | Revised to S1-223593 |
| 91 | 7.1 | S1-223350 | TOYOTA | TR22.837 A new use case on UE identification for coordinated | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223188.  No consensus | Withdrawn |
| 93 | 7.1 | S1-223351 | Xiaomi | New use case on privacy protection of sensing target | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223192.  For Ericsson and T-Mobile, it is still not clear where the user consent should be stored | Noted |
| 94 | 7.2 | S1-223352 | Huawei | Use case smart bridge health monitoring using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223230. | Revised to S1-223554 |
| 98 | 7.2 | S1-223353 | Vodafone | Elderly Health Care | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223231. | Revised to S1-223555 |
| 102 | 7.2 | S1-223354 | KPN | pCR on Use case on end-to-end logistics | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223244.  For Qualcomm, "[PR.5.x-003] The 5G system shall support functionality to wake up and trigger Ambient IoT devices to communicate." Is out of scope and should be deleted.  2nd requirement should be at least temporarily deleted, for Huawei.  Nokia: the 1st requirement needs rephrasing. | Revised to S1-223568 |
| 105 | 7.2 | S1-223355 | KPN | pCR on Use case on pressure powered switch | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223250.  Wording to be clarified for "transfer"/"transaction" | Revised to S1-223569 |
| 25 | 7.2 | S1-223356 | Qualcomm | Update to Clause 5.8 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223101 | Revision of S1-223101. | Agreed |
| 27 | 7.2 | S1-223357 | Qualcomm | Update to Clause 5.7 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223102 | Revision of S1-223102. | Agreed |
| 19 | 7.2 | S1-223358 | ZTE | pCR to remove editor s notes in clause 5.11 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223082 | Revision of S1-223082.  Clean changes on changes | Revised to S1-223545 |
| 22 | 7.2 | S1-223359 | ZTE | pCR to remove editor s notes in clause 5.2 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223083 | Revision of S1-223083.  Clean changes on changes. | Revised to S1-223546 |
| 29 | 7.2 | S1-223360 | vivo | KPI update for Ambient IoT in personal belongings finding | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223128 | Revision of S1-223128. | Agreed |
| 31 | 7.2 | S1-223361 | OPPO | Pseudo-CR on updates to clause 5.14 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223163 | Revision of S1-223163. | Agreed |
| 14 | 7.2 | S1-223362 | OPPO | Pseudo-CR to update the KPI tables in TR 22840 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Revision of S1-223166 | Revision of S1-223166.  To be implemented using the new template for KPI in 3699.  KPN disagrees with the procedure and think this should be "endorsed".  Not needed, 3166 covers the issue. | Withdrawn |
| 39 | 7.2 | S1-223363 | Xiaomi | Update to Use case on LCS of Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223183. | Agreed |
| 41 | 7.2 | S1-223364 | Xiaomi | Update to Use case on Ranging of Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223196. | Agreed |
| 43 | 7.2 | S1-223365 | China Telecom | Pseudo-CR to remove editor s notes in clause 5.6 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223206.  Was Agreed | Revised to S1-223583 |
| 46 | 7.2 | S1-223366 | KPN, Huawei | Update of KPI values in traffic scenario 6.1 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223208.  " EPC" to be clarified.  Column "Device per base station" to be deletde | Revised to S1-223556 |
| 49 | 7.2 | S1-223367 | Huawei | update to traffic scenario 6\_2 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223222.  Put < inside the bracket | Revised to S1-223557 |
| 55 | 7.2 | S1-223368 | InterDigital | Update to the Use Case for supporting Ambient power-enabled IoT in non-public network for logistics | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223246.  Author prpose to postpone. | Noted |
| 109 | 7.2 | S1-223369 | Ericsson | Annex for considerations when choosing harvesting source | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223228.  Clarified that the figure is an example.  Vodafone: sensors can be removed from the figure. | Revised to S1-223570 |
|  | 99 | S1-223370 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 04 | 7.5 | S1-223371 | UIC | 22.989v19.0.0 Enhancement of Multi-train voice communication use cases | CR | 22.989 | 0019 | 2 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223282 | Revision of S1-223013. Revision of S1-223282. | Agreed |
| 11 | 7.5 | S1-223372 | UIC | 22.989v19.0.0 Update of QoS in a railway environment use case | CR | 22.989 | 0021 | 2 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223284 | Revision of S1-223015. Revision of S1-223284. | Revised to S1-223385 |
| 15 | 7.5 | S1-223373 | UIC | 22.989v19.0.0 Enhancement of two use cases of Railway emergency communications | CR | 22.989 | 0022 | 2 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223285 | Revision of S1-223016. Revision of S1-223285. | Revised to S1-223386 |
| 18 | 7.5 | S1-223374 | Hansung University | 22.989v19.0.0 Enhancement of FRMCS naming authority use case | CR | 22.989 | 0023 | 1 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223242 | Revision of S1-223242. | Revised to S1- 223380 |
| 03 | 7.9 | S1-223375 | Ericsson, Deutsche Telekom | Editorial clean-up of RVAS TR | pCR | 22.877 |  |  |  | 0.1.0 | Rel-19 | FS\_RVAS | Revision of S1-223045 | Revision of S1-223045. | Agreed |
| 05 | 7.9 | S1-223376 | Deutsche Telekom | Update of use case on Subscription based routing to a particular core network | pCR | 22.877 |  |  |  | 0.1.0 | Rel-19 | FS\_RVAS |  | Revision of S1-223017. | Agreed |
| 07 | 7.9 | S1-223377 | Ericsson, Deutsche Telekom | RVAS Consolidation | pCR | 22.877 |  |  |  | 0.1.0 | Rel-19 | FS\_RVAS |  | Revision of S1-223046. | Revised to S1-223388 |
| 10 | 7.9 | S1-223378 | Ericsson, Deutsche Telekom | RVAS conclusion | pCR | 22.877 |  |  |  | 0.1.0 | Rel-19 | FS\_RVAS |  | Revision of S1-223047. | Agreed |
| 07 | 7.5 | S1-223379 | UIC | 22.989v19.0.0 Enhancement of Multiuser talker control use cases | CR | 22.989 | 0020 | 2 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 |  | Revision of S1-223014 . No presentation Revision of S1-223283. | Revised to S1-223382 |
| 19 | 7.5 | S1-223380 | Hansung University | 22.989v19.0.0 Enhancement of FRMCS naming authority use case | CR | 22.989 | 0023 | 2 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223374 | Revision of S1-223242. Revision of S1-223374. | Revised to S1-223387 |
| 04 | 7.12 | S1-223381 | LG Electronics | SOBOT use case on Online cooperative 3D map building | pCR | 22.916 |  |  |  | 0.1.0 | Rel-19 | FS\_SOBOT | Revision of S1-223027 | Revision of S1-223027.  "sidelink" replaced by "ProSe", editor's note redrafted.  Problem with the editor's note.  Huawei still has issues with CPG#2. This is to be deleted. | Revised to S1-223575 |
| 08 | 7.5 | S1-223382 | UIC | 22.989v19.0.0 Enhancement of Multiuser talker control use cases | CR | 22.989 | 0020 | 3 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 |  | Revision of S1-223014 . Revision of S1-223283. Revision of S1-223379. | Agreed |
|  | 99 | S1-223383 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223384 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 12 | 7.5 | S1-223385 | UIC | 22.989v19.0.0 Update of QoS in a railway environment use case | CR | 22.989 | 0021 | 3 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223372 | Revision of S1-223015. Revision of S1-223284. Revision of S1-223372. | Agreed |
| 16 | 7.5 | S1-223386 | UIC | 22.989v19.0.0 Enhancement of two use cases of Railway emergency communications | CR | 22.989 | 0022 | 3 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 |  | Revision of S1-223016. Revision of S1-223285. | Agreed |
| 20 | 7.5 | S1-223387 | Hansung University | 22.989v19.0.0 Enhancement of FRMCS naming authority use case | CR | 22.989 | 0023 | 3 | C | 19.1.0 | Rel-19 | FS\_FRMCS\_Ph5 | Revision of S1-223380 | Revision of S1-223242. Revision of S1-223374. Revision of S1-223380. | Agreed |
| 08 | 7.9 | S1-223388 | Ericsson, Deutsche Telekom | RVAS Consolidation | pCR | 22.877 |  |  |  | 0.1.0 | Rel-19 | FS\_RVAS |  | Revision of S1-223046. Revision of S1-223377. | Agreed |
| 07 | 7.12 | S1-223389 | Vivo | SOBOT Use case on real-time cooperative safety protection | pCR | 22.916 |  |  |  | 0.1.0 | Rel-19 | FS\_SOBOT | Revision of S1-223078 | Revision of S1-223078. | Revised to S1-223660 |
|  | 99 | S1-223390 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 04 | 7.7 | S1-223391 | China Telecom | Update of use case of store and forward operation with discontinuous feeder link for delay-tolerant IoT - Inter-satellite | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Revision of S1-223034 | Revision of S1-223034. | Revised to S1-223411 |
| 07 | 7.7 | S1-223392 | Huawei | Pseudo-CR on updates to clause 5.4 | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223140. | Agreed |
| 27 | 7.7 | S1-223393 | Huawei | Pseudo-CR on updates to clause 5.6 | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223141. | Agreed |
| 12 | 7.7 | S1-223394 | China Telecom | Pseudo-CR on updates to clause 5.7 | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223210. Revision of S1-223289. | Revised to S1-223412 |
| 17 | 7.7 | S1-223395 | China Telecom | Use case of Amazon Rainforest Adventure with satellite access | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223036. | Revised to S1-223533 |
| 20 | 7.7 | S1-223396 | CATT | use case on vehicle fleet management in the desert | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223117.  Qc: clarifications requested for the connected mode. Typo on "indirection" | Revised to S1-223636 |
| 23 | 7.7 | S1-223397 | CATT | Use case on service differentiation for UEs via satellite access | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223118. | Revised to S1-223534 |
| 32 | 7.7 | S1-223398 | China Telecom | New use case for enabling multiple services between UEs | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223220. Revision of S1-223290. | Revised to S1-223535 |
| 08 | 7.9.1 | S1-223399 | Qualcomm | TR scope | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Revision of S1-223211 | Revision of S1-223211. | Agreed |
| 11 | 7.9.1 | S1-223400 | Intel | Use Case on UE with Multibeam and Multistream 3GPP Access | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223084. | Revised to S1-223550 |
| 15 | 7.9.1 | S1-223401 | SKY Perfect JSAT Corporation | NTN and TN Inter-PLMN Multi-access in a Maritime scenario | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223096. | Revised to S1-223404 |
| 28 | 7.7 | S1-223402 | IIT Bombay | Usage of satellite connectivity for collection of information to aid terrestrial network planning | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223293 | "operator's policies" instead of "preferencies" | Revised to S1-223639 |
| 20 | 7.9.1 | S1-223403 | IIT Bombay | Use case on Dual Steering through Satellite access and UAV | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223156. Revision of S1-223294.  ""to collecgt chaging data" (to simplify)  "When steering traffic" | Revised to S1-223643 |
| 16 | 7.9.1 | S1-223404 | SKY Perfect JSAT Corporation | NTN and TN Inter-PLMN Multi-access in a Maritime scenario | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223096. Revision of S1-223401.  Delete "network status", add "FFS" for PR#1 (editor's note) | Revised to S1-223642 |
| 24 | 7.9.1 | S1-223405 | Futurewei | Use Case on inter PLMN or PLMN-SNPN scenario for URLLC service | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223203. Revision of S1-223300. | Agreed |
| 27 | 7.9.1 | S1-223406 | Futurewei | Use Case on intra-PLMN for XRM service | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223205. Revision of S1-223301. | Agreed |
| 29 | 7.9.1 | S1-223407 | Qualcomm | Use Case on intra-PLMN traffic duplication | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223212.  Huawei: "user data, " to be changed to "user data pertaining to one single subscription"  Other clarifications to T-Mobile | Revised to S1-223644 |
| 32 | 7.9.1 | S1-223408 | Qualcomm | Use Case on dual 3GPP access in VPLMN scenarios | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223214. | Agreed |
| 34 | 7.9.1 | S1-223409 | Qualcomm | Use Case on interworking with non-3GPP access | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223215. | Revised to S1-223723 |
| 07 | 7.4 | S1-223410 | China Unicom | Updated use case on network access control and mobility requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Revision of S1-223025 | Revision of S1-223025. | Revised to S1-223596 |
| 11 | 7.4 | S1-223411 | China Unicom | Updated Use Case on Service Continuity and QoS Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare |  | Revision of S1-223139. | Revised to S1-223597 |
| 24 | 7.4 | S1-223412 | CATT | use case of long-distance mobility in and across shared network | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare |  | Revision of S1-223116. | Revised to S1-223627 |
| 04 | 7.6 | S1-223413 | China Telecommunications | Update of Use Case of AI model transfer management through direct device connection | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Revision of S1-223040 | Revision of S1-223040.  Clean-up needed  "Transmitting data" to be chanded to "exchange data" | Revised to S1-223629 |
| 07 | 7.6 | S1-223414 | OPPO, Xiaomi | New Use Case - Direct device connection assisted Async FL | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 |  | Revision of S1-223172. | Revised to S1-223630 |
| 10 | 7.6 | S1-223415 | OPPO | Update of Use Case - Direct device connection based federated learing | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 |  | Revision of S1-223174.  "shall be able to support" to change to "shall support", other duplication detected by T-Mobile.  Sent off-line | Revised to S1-223632 |
| 13 | 7.6 | S1-223416 | InterDigital | Update to the Use Case on AI Model Transfer Management through Direct Device Connection | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 |  | Revision of S1-223239.  Sent off-line | Revised to S1-223633 |
| 17 | 7.6 | S1-223417 | OPPO, Xiaomi | Update of Use case - Proximity based work task offloading for AI/ML inference | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 |  | Revision of S1-223173.  Sent off-line | Revised to S1-223634 |
| 16 | 7.4 | S1-223418 | China Unicom | Use Case on Hosted Services Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare |  | Revision of S1-223028.  More off-line work needed. | Revised to S1-223598 |
| 21 | 7.4 | S1-223419 | China Unicom | Use Case on Emergency Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare |  | Revision of S1-223035. Revision of S1-223307.  "accurate" to be removed in [PR 5.X.6-002]  1st requirement "shall support" instead of "shall be able to support" | Revised to S1-223626 |
| 28 | 7.4 | S1-223420 | CATT | Considerations on security\_r2 | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare |  | Revision of S1-223115. Status unknown | Revised to S1-223628 |
| 02 | 7.4.1 | S1-223421 | China Unicom | Cover sheet of the TR22.851 for approval | TR | 22.851  22.851 |  |  |  |  |  |  |  | Revision of S1-223126. | Revised to S1-223599 |
|  | 99 | S1-223422 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223423 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223424 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223425 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223426 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223427 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223428 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223429 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 15 | 7.8 | S1-223430 | Huawei | New use case: 3GPP network as an information source to the UTM | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223191. | Revised to S1-223453 |
| 04 | 7.11 | S1-223431 | Samsung | 22.882 pCR: addressing ENs in 5.1 | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Revision of S1-223063 | Revision of S1-223063. | Agreed |
| 10 | 7.11 | S1-223432 | Samsung | 22.822 pCR: New Use Case on Service Energy Monitoring by an Application Server | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223064.  Wrong version uploaded | Revised to S1-223653 |
| 07 | 7.11 | S1-223433 | MediaTek | Use Case for Reducing GHG Footprint of Computing-Aware Systems | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223032.  Format of the Note to be corrected.  Qualcomm: some statements are too vague ("select the most energy efficient approach", " "5G system shall support mechanisms enabling operators to optimize energy").  Huawei: there are parts which are outside 3GPP.  There are still some fundamental problems. | Revised to S1-223652 |
| 14 | 7.11 | S1-223434 | China Mobile | pCR EnergyServ use case of supporting different energy efficiency modes in industrial campus | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223103. | Revised to S1-223648 |
| 18 | 7.11 | S1-223435 | China Mobile | pCR EnergyServ use case of achieving energy efficiency by supporting different levels of service quality | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223104. | Withdrawn |
| 04 | 7.8 | S1-223436 | China Mobile | pCR on updates on use case on supporting UAV pre-flight preparation | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Revision of S1-223184 | Revision of S1-223184. | Agreed |
| 07 | 7.8 | S1-223437 | Orange | Geofencing for Visual Line-of-Sight UAV missions | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223041. | Revised to S1-223717 |
| 09 | 7.8 | S1-223438 | China Mobile | New use case: Use case for network-assisted UAV DAA | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223185. | Revised to S1-223645 |
| 12 | 7.8 | S1-223439 | China Mobile | New use case: Use case for supporting USS/UTM relocation | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223186. | Revised to S1-223651 |
| 04 | 7.3 | S1-223440 | Samsung | 22.856 pCR: Add an Overview | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Revision of S1-223052 | Revision of S1-223052. | Agreed |
| 06 | 7.3 | S1-223441 | Samsung, Tencent | 22.856 pCR: Terminology for Mobile Metaverse Services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223053.  Delete 2nd sentence from "location agnostic", clean-up | Revised to S1-223609 |
| 10 | 7.3 | S1-223442 | Samsung | 22.856 pCR: addressing ENs in 5.1 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223057. | Agreed |
| 12 | 7.3 | S1-223443 | Samsung | 22.856 pCR: address an EN in 5.4 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223058.  Editorial problem (PR 3 appears in the Note) | Revised to S1-223610 |
|  | 99 | S1-223444 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 16 | 7.3 | S1-223445 | Samsung | 22.856 pCR: editorial clean up proposals for 5.10 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223060. | Noted |
| 18 | 7.3 | S1-223446 | China Mobile | pCR Metaverse updated use case 5.8 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223111.  Clean-up needed (changes over changes) | Revised to S1-223611 |
| 21 | 7.3 | S1-223447 | Huawei | Pseudo-CR on updates to clause 5.3 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223142.  The note under 5.3.6.2 is still unclear to Qualcomm. | Revised to S1-223612 |
| 20 | 7.11 | S1-223448 | China Mobile | pCR EnergyServ use case of selecting network fault detection algorithm based on energy efficiency analysis | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223106. | Revised to S1-223649 |
| 24 | 7.11 | S1-223449 | China Mobile | pCR EnergyServ use case of supporting service-level energy efficiency analysis for verticals | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223107. | Revised to S1-223650 |
| 28 | 7.11 | S1-223450 | ZTE | new UC EE of NG-RAN node per site | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223127. | Revised to S1-223656 |
| 31 | 7.11 | S1-223451 | ZTE | new UC EE information exposure under NPN | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223131. | Revised to S1-223657 |
| 36 | 7.11 | S1-223452 | TOYOTA | TR22.882 A new use case on the priority utilization of renewable energy | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ |  | Revision of S1-223187. Revision of S1-223279. | Noted |
| 16 | 7.8 | S1-223453 | Huawei | New use case: 3GPP network as an information source to the UTM | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223191. Revision of S1-223430. | Revised to S1-223647 |
| 19 | 7.8 | S1-223454 | Qualcomm | Use case on different UAV traffic over two networks | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223217.  TMobile do not agree with this use case. It can be provided at the application layer.  Futurewei support but think more work is needed. | Noted. |
| 21 | 7.8 | S1-223455 | Qualcomm | Use case on UAV traffic over alternative networks | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223219.  T-Mobile also prefer to have this one noted. | Noted. |
| 23 | 7.8 | S1-223456 | InterDigital | New use case for supporting UAV inflight network condition monitoring | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223237. | Revised to S1-223616 |
| 26 | 7.8 | S1-223457 | InterDigital | New use case on UAV flight route tracking at Rendezvous points | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 |  | Revision of S1-223238.  Use by mistake by another doc | Revised to S1-223558 |
| 57 | 7.3 | S1-223458 | China Mobile | Pseudo-CR on Use case of virtual store in a metaverse marketplace | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223105. | Revised to S1-223471 |
| 48 | 7.3 | S1-223459 | NTT DOCOMO | New use case of Work delegation to autonomous virtual alter ego | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223097. | Revised to S1-223469 |
| 53 | 7.3 | S1-223460 | NTT DOCOMO | New use case of Information access service from public UE | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223098. | Revised to S1-223470 |
| 24 | 7.3 | S1-223461 | Vivo | Pseudo-CR on update the power consumption for Immersive AR Interactive Experience | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223153.  Wrong tdoc number on doc.  Qualcomm has issues with power consumption.  Sent off-line. | Revised to S1-223613 |
| 30 | 7.3 | S1-223462 | Orange, Huawei, Samsung, Xiaomi | Digital asset container, presentation, access and certification | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223043.  Clean-up needed | Revised to S1-223614 |
| 33 | 7.3 | S1-223463 | Orange, Huawei, Xiaomi | Interconnection of mobile metaverses | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223044.  Note 1 to be removed.  Clean-up needed | Revised to S1-223615 |
| 37 | 7.3 | S1-223464 | Samsung | 22.856 pCR: New Use Case on IMS-based 3D Avatar Communication | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223055. | Agreed |
| 40 | 7.3 | S1-223465 | vivo | use case on virtual humans in metaverse | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223079. | Agreed |
| 42 | 7.3 | S1-223466 | Intel | Use Case on 3GPP based Digital Twin (DT) Security | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223090..  Author proposes to note. | Noted |
| 45 | 7.3 | S1-223467 | China Telecom, Tencent | New Use Case on Access to Avatars | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223094. Revision of S1-223312.  Qualcomm has concerns with the concept of " application policy". This is agreed to be removed. | Revised to S1-223617 |
| 67 | 7.3 | S1-223468 | Vivo | Pseudo-CR on communication power consumption analysis on mobile metaverse services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223154. | Revised to S1-223475 |
| 49 | 7.3 | S1-223469 | NTT DOCOMO | New use case of Work delegation to autonomous virtual alter ego | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223097. Revision of S1-223459. | Revised to S1-223608 |
| 54 | 7.3 | S1-223470 | NTT DOCOMO | New use case of Information access service from public UE | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223098. Revision of S1-223460.  Qualcomm think that the wording is not stable enough | Revised to S1-223619 |
| 58 | 7.3 | S1-223471 | China Mobile | Pseudo-CR on Use case of virtual store in a metaverse marketplace | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223105. Revision of S1-223458.  Sent off-line (Qc, Ericsson, Telefonica) | Revised to S1-223677 |
| 60 | 7.3 | S1-223472 | China Mobile | pCR Metaverse use case of cooperation between metaverse service and network | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223109.  Note in [PR 5.R.6-2] is stating that Stage 2 is FFS: this brings no value and can be deleted.  Sent off-line (Samsung, Telefonica, Nokia, QC) | Revised to S1-223620 |
| 63 | 7.3 | S1-223473 | China Mobile | pCR Metaverse use case of supporting virtual meeting room of financial services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223110.  "applicable regulation" should be replaced by a more common wording.  Editor's note to be added  "avatar" also to be replaced by " digital assets".  Sent off-line (Qc, Telefonica). | Revised to S1-223621 |
| 71 | 7.3 | S1-223474 | CableLabs | New Use Case - Metaverse Multi Access Scenario | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223204.  Sent-offline (Qc, Telefonica, Nokia, etc.) | Revised to S1-223635 |
| 68 | 7.3 | S1-223475 | Vivo | Pseudo-CR on communication power consumption analysis on mobile metaverse services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223154. Revision of S1-223468.  New off-line comments received, not included in this version. | Revised to S1-223622 |
| 74 | 7.3 | S1-223476 | Ericsson | Privacy-Aware Dynamic Network Exposure in Immersive Interactive Experiences | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse |  | Revision of S1-223221. | Revised to S1-223637 |
|  | 99 | S1-223477 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223478 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223479 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 33 | 7.2 | S1-223480 | China Mobile | pCR on update service requirements for use case: Ambient IoT for Base Station Machine Room Environmental Supervision | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223179.  Was Revised to S1-223548 but no need to revise. | Agreed |
| 36 | 7.2 | S1-223481 | China Mobile | pCR on Update service requirements for use case-Ambient\_IoT for automated warehousing | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223180.  Was Revised to S1-223549 but no need to revise. | Agreed |
| 69 | 7.2 | S1-223482 | vivo | New use case: Ambient IoT in Smart Agriculture | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT |  | Revision of S1-223129. Revision of S1-223326. | Revised to S1-223560 |
| 81 | 7.1 | S1-223483 | NTT DOCOMO, NTT | Pseudo-CR on Full tracking for immersive experience in Metaverse | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Revision of S1-223149 | Revision of S1-223149. | Revised to S1-223585 |
| 08 | 7.1 | S1-223484 | Nokia, Nokia Shanghai Bell, Huawei, ZTE, Vivo | Pseudo-CR on harmonised KPIs for sensing scenarios | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223080. Revision of S1-223334. | Endorsed |
| 11 | 7.1 | S1-223485 | vivo, Deutsche Telekom, Nokia, CMCC | Definition on KPI indicators | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Moved from 7.2 Revision of S1-223160. Revision of S1-223335. | Agreed |
| 55 | 7.1 | S1-223486 | Huawei | New use case: Sensing for parking space determination | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223201. Revision of S1-223339. | Revised to S1-223584 |
| 95 | 7.1 | S1-223487 | Xiaomi | New use case on sensing assisted high-definition map construction | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223195.  More off-line discussions needed. | Revised to S1-223594 |
| 98 | 7.1 | S1-223488 | Huawei | New use case: Immersive experience based on Sensing | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223200. | Agreed |
| 101 | 7.1 | S1-223489 | Lenovo | Use Case of UE-based sensing | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Only the part on privacy is kept. | Revision of S1-223247.  Wrong tdoc number on the cover page.  Philips: What is the user?  T-Mobile has more concerns | Revised to S1-223595 |
| 104 | 7.1 | S1-223490 | vivo, CMCC | Use case on accurate sensing for automotive maneuvering and navigation | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Moved from 7.2 Revision of S1-223158.  Clean-up needed, re-numberring of requirements, reword on reliability. | Revised to S1-223604 |
| 17 | 7.1 | S1-223491 | China Telecom, vivo | Update of Use case on Rainfall Monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223095. Revision of S1-223292.  Chair: text shown as deleted is not meant to be deleted. It should not appear at all in the pCR.  KPI 1 should be in brackets | Revised to S1-223576 |
| 20 | 7.1 | S1-223492 | Qualcomm | Update to Clause 5.10 | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223100.  Chair: last KPI table format should be used as a basis. | Revised to S1-223577 |
| 23 | 7.1 | S1-223493 | Huawei | New requirement for forbidden sensing area | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223121.  Sony and T-Mobile still have concern with introducing a negative requirement, in particular when the "direct (positive)" requirement is already there. | Noted |
| 25 | 7.1 | S1-223494 | Huawei | Update of KPI table for railway intrusion detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223125.. | Agreed |
| 27 | 7.1 | S1-223495 | Huawei | Update of KPI table for pedestrian intrusion detection on a highway | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223123. | Agreed |
| 29 | 7.1 | S1-223496 | OPPO | Update for Use case of intruder detection in smart home | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223169.. | Agreed |
| 31 | 7.1 | S1-223497 | China Mobile | pCR on updates on use case sensing for UAV intrusion detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223176.  Note should be within the KPI table.  Changes ono changes to be removed. | Revised to S1-223578 |
| 34 | 7.1 | S1-223498 | China Mobile | pCR on updates on use case on sensing for tourist spot traffic management | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223177. | Agreed |
| 37 | 7.1 | S1-223499 | ZTE, CMCC | Update section 5.12 | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223146. Revision of S1-223298.  Range in sensing area to be removed | Revised to S1-223579 |
| 107 | 7.1 | S1-223500 | Lenovo | Update for Use Case of Walking assistance | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223252. | Noted |
| 40 | 7.1 | S1-223501 | vivo | Update use case on sleep monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Moved from 7.2 Revision of S1-223157.  Clean-up needed, renumbering of requirements needed. | Revised to S1-223580 |
| 111 | 7.1 | S1-223502 | Xiaomi | Sensing charging consideration | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223039.  Ericsson wonder if there are no equivalent charging requirement.  "should" to be replaced by "shall"  5GS to be changed to 5G System  Grammar to be corrected.  No need to have a "General" section.  Sent off-line. | Revised to S1-223605 |
| 114 | 7.1 | S1-223503 | Xiaomi | Sensing privacy consideration update | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | No presentation Revision of S1-223050.  Clean-up needed | Revised to S1-223606 |
| 117 | 7.1 | S1-223504 | Xiaomi | Sensing Mission Critical and other priority services consideration update | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223051.  Clean-up needed | Revised to S1-223607 |
| 49 | 7.1 | S1-223505 | Samsung | 22.837 pCR - Use case on Sensing of Sensor Groups | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223062. Revision of S1-223338.  KPI table still has to be aligned with the rest of the document.  Clean-up needed. | Revised to S1-223581 |
| 59 | 7.1 | S1-223506 | Qualcomm | Use case on Seamless XR Streaming | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing |  | Revision of S1-223092. Revision of S1-223340. | Revised to S1-223586 |
| 01 | 7.1.1 | S1-223507 | Rapporteur (Deutsche Telekom) | TR 22.837v0.3.0 Study on Integrated Sensing and Communication | TR | 22.837 |  |  |  |  |  |  |  | First draft by Comments till Final version by |  |
| 01 | 7.2.1 | S1-223508 | Rapporteur (OPPO) | TR 22.840v0.3.0 Study on Ambient power-enabled Internet of Things | TR | 22.840 |  |  |  |  |  |  |  |  |  |
| 01 | 7.3.1 | S1-223509 | Rapporteur (Samsung) | TR 22.856v0.3.0 Study on Localized Mobile Metaverse Services | TR | 22.856 |  |  |  |  |  |  |  |  |  |
| 04 | 7.4.1 | S1-223510 | Rapporteur (China Unicom) | TR 22.851v0.2.0 Study on Network Sharing Aspects | TR | 22.851  22.851  22.851 |  |  |  |  |  |  |  |  |  |
| 01 | 7.9.1 | S1-223511 | Rapporteur (Ericsson) | Cover sheet of the TR22.8773 for on step approval | TR | 22.877 |  |  |  |  |  |  | For sending to one-step approval | There is no normative WID at this meeting, this will be for a future step.  "chapter" to be changed to clause | Revised to S1-223574 |
| 03 | 7.9.1 | S1-223512 | Rapporteur (Ericsson) | TR 22.877v0.2.0 Study on roaming value added services | TR | 22.877 |  |  |  |  |  |  |  |  |  |
| 01 | 7.12.1 | S1-223513 | Rapporteur (LGE) | TR 22.916v0.2.0 Study on Network of Service Robots with Ambient Intelligence | TR | 22.916 |  |  |  |  |  |  |  |  |  |
| 01 | 7.7.1 | S1-223514 | Rapporteur (NOVAMINT) | TR 22.865v0.2.0 Study on Satellite Access Phase 3 | TR | 22.865 |  |  |  |  |  |  |  |  |  |
| 01 | 7.10.1 | S1-223515 | Rapporteur (Qualcomm) | TR 22.841v0.2.0 Study on Upper layer traffic steering, switching and split over dual 3GPP access | TR | 22.841 |  |  |  |  |  |  |  | First draft by Tuesday 22nd 23:00 UTC  Comments till Tuesday 29th 23:00 UTC  Final version by Wednesday 30th 23:00 UTC  Draft TRs should be put in:  /tsg\_sa/WG1\_Serv/TSGS1\_100\_Toulouse/inbox/draft\_TRs |  |
| 01 | 7.8.1 | S1-223516 | Rapporteur (China Mobile) | TR 22.843v0.2.0 Study on UAV Phase 3 | TR | 22.843 |  |  |  |  |  |  |  |  |  |
| 01 | 7.11.1 | S1-223517 | Rapporteur (China Mobile) | TR 22.882v0.2.0 Study on Energy Efficiency as service criteria | TR | 22.882 |  |  |  |  |  |  |  |  |  |
| 01 | 10.1 | S1-223518 | Rapporteur / Session Chair | Sensing drafting report | Report |  |  |  |  |  |  |  |  | By agreeing this report, all docs agreed in the session will be agreed by SA1. | Agreed |
| 02 | 10.1 | S1-223519 | Rapporteur / Session Chair | Ambient IoT drafting report | Report |  |  |  |  |  |  |  |  | By agreeing this report, all docs agreed in the session will be agreed by SA1. | Agreed |
| 03 | 10.1 | S1-223520 | Rapporteur / Session Chair | Metaverse drafting report | Report |  |  |  |  |  |  |  |  | By agreeing this report, all docs agreed in the session will be agreed by SA1.  Two documents were withdrawn: S1-223089 and S1-223124 | Agreed |
| 04 | 10.1 | S1-223521 | Rapporteur / Session Chair | NetShare + AIMLPh2 drafting report | Report |  |  |  |  |  |  |  |  | By agreeing this report, all docs agreed in the session will be agreed by SA1. | Agreed |
| 05 | 10.1 | S1-223522 | Rapporteur / Session Chair | DualSteer + 5GSat drafting report | Report |  |  |  |  |  |  |  |  | By agreeing this report, all docs agreed in the session will be agreed by SA1. | Agreed |
| 06 | 10.1 | S1-223523 | Rapporteur / Session Chair | FRMCS + RVAS + SOBOT drafting report | Report |  |  |  |  |  |  |  | Highlight the following items:;  - All documents treated  - 9 documents pre-agreed in drafting  O All FS\_FRMCS\_Ph5 contributions pre-agreed  - 3 documents open  O 1 for RVAS Consolidation  O 2 for SOBOT use case | By agreeing this report, all docs agreed in the session will be agreed by SA1. | Agreed |
| 07 | 10.1 | S1-223524 | Rapporteur / Session Chair | EnergyServ + UAV drafting report | Report |  |  |  |  |  |  |  |  |  | Agreed |
|  | 99 | S1-223525 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223526 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223527 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223528 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
|  | 99 | S1-223529 |  | Not used |  |  |  |  |  |  |  |  |  |  | Withdrawn |
| 36 | 7.9.1 | S1-223530 | InterDigital | New use case on Inter-PLMN scenario - TN and multiple NTN | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer |  | Revision of S1-223243.  At some point, 3603 was used instead (problem with double allocation of 340)  In the end, 3530 actually used.  No convergence nor agreement by the end of the meeting. | Noted |
| 05 | 7.7 | S1-223531 | China Telecom | Update of use case of store and forward operation with discontinuous feeder link for delay-tolerant IoT - Inter-satellite | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223034. Revision of S1-223391.  "operator's policy" " to be changed by the rapporteur to "Operator policy" | Agreed |
| 13 | 7.7 | S1-223532 | China Telecom | Pseudo-CR on updates to clause 5.7 | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223210. Revision of S1-223289. Revision of S1-223394.  "Pos" to be changed to "positioning"  Nokia: Grammar still ambiguous | Revised to S1-223640 |
| 18 | 7.7 | S1-223533 | China Telecom | Use case of Amazon Rainforest Adventure with satellite access | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223036. Revision of S1-223395. | Agreed |
| 24 | 7.7 | S1-223534 | CATT | Use case on service differentiation for UEs via satellite access | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223118. Revision of S1-223397. Because there already was a 3397 tdoc uploaded  "independent of" (and not "on") – several instances.  "authorized roaming" to be changed to "roaming"  More off-line needed (Qc, Huawei, Hispasat, KPN, etc) | Revised to S1-223638 |
| 33 | 7.7 | S1-223535 | China Telecom | New use case for enabling multiple services between UEs | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 |  | Revision of S1-223220. Revision of S1-223290. Revision of S1-223398. | Agreed |
| 05 | 3 | S1-223536 | Deutsche Telekom | Reply LS to CT1 (C1-226124) on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223291 | Revision of S1-223019 . Revision of S1-223291.  Some text can be taken from LG's CR in 3309 | Revised to S1-223687 |
| 15 | 3 | S1-223537 | LG Electronics | Clarification for SENSE requirements (CT1 LS Question 1) | CR | 22.011 | 0345 | 2 | F | 18.3.0 | Rel-18 | SENSE | Replaces S1-223309 | Revision of S1-223135. Revision of S1-223309. | withdrawn |
| 30 | 3 | S1-223538 | Samsung | [Draft] Reply LS to SA6 (cc SA2) on PIN Management | LS out |  |  |  |  |  | Rel-18 | FS\_PINAPP | Replaces S1-223295 | Revision of S1-223068. Revision of S1-223295.  Dates of next meeting wrong | Agreed |
| 39 | 3 | S1-223539 | Xiaomi Technology | [Draft] Reply LS on Latency impact for NTN verified UE location | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223296 | Revision of S1-223120. Revision of S1-223296. | Agreed |
| 44 | 3 | S1-223540 | Qualcomm | Draft Reply LS to SA2 SA2, SA3, CT1 (cc CT3, CT4, RAN2, RAN3) on Progress and open issues for NPN enhancements in Rel-18 | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223297 | Revision of S1-223091. Revision of S1-223297. | Agreed |
| 49 | 3 | S1-223541 | NTT DOCOMO | [DRAFT] Reply LS to SA3 (cc SA6) on SNAAPP requirements clarifications | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223299 | Revision of S1-223150. Revision of S1-223299.  Qualcomm asked to be postponed to next meeting. | noted |
| 55 | 3 | S1-223542 | China Mobile E-Commerce Co. | Reply LS to SA6 (cc SA5) on DN energy efficiency data analytics | LS out |  |  |  |  |  | Rel-18 | FS\_EnergyServ | Replaces S1-223302 | Revision of S1-223225. Revision of S1-223302. | Agreed |
| 62 | 3 | S1-223543 | OPPO | [Draft] Reply LS to SA, SA6 (cc SA2) on QoS Sustainability analytics and V2X service adaptations | LS out |  |  |  |  |  | Rel-19 |  | Replaces S1-223318 | Revision of S1-223175. Revision of S1-223318.  Several editorial clean-ups needed | Revised to S1-223688 |
| 11 | 7.2 | S1-223544 | OPPO | Discussion on remaining issue on KPI table template | discussion | 22.840 |  |  |  |  |  |  | Replaces S1-223165 | Revision of S1-223165. | Revised to S1-223631 |
| 20 | 7.2 | S1-223545 | ZTE | pCR to remove editor s notes in clause 5.11 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223358 | Revision of S1-223082. Revision of S1-223358. Clean changes on changes. | Agreed |
| 23 | 7.2 | S1-223546 | ZTE | pCR to remove editor s notes in clause 5.2 |  |  |  |  |  |  |  |  | Replaces S1-223359 | Revision of S1-223083. Revision of S1-223359. | Agreed |
| 59 | 7.2 | S1-223547 | Wiliot Ltd. | New use case: Fresh Food Supply Chain | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223323 | Ericsson: Note 4 should be deleted from the table.  Huawei: figure not in the requirement section | Revised to S1-223571 |
| 34 | 7.2 | S1-223548 | China Mobile | pCR on update service requirements for use case: Ambient IoT for Base Station Machine Room Environmental Supervision | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223480 | Revision of S1-223179. Revision of S1-223480. | Withdrawn |
| 37 | 7.2 | S1-223549 | China Mobile | pCR on Update service requirements for use case-Ambient\_IoT for automated warehousing | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223481 | Revision of S1-223180. Revision of S1-223481. | Withdrawn |
| 12 | 7.9.1 | S1-223550 | Intel | Use Case on UE with Multibeam and Multistream 3GPP Access | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223400 | Huawei: "access links" to be replaced by "networks" (which might have different access technologies)  Sent off-line | Revised to S1-223641 |
| 82 | 7.2 | S1-223551 | Huawei | use case-grazing dairy farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223330 | Qualcomm still need to review the value "500 bit/s" in the table. A way out is to put it in square brackets. | Revised to S1-223564 |
| 86 | 7.2 | S1-223552 | Huawei | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223331 | Revision of S1-223224. Revision of S1-223331. | Revised to S1-223561 |
| 91 | 7.2 | S1-223553 | Huawei | Use case smart monitoring of manhole cover using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223332 | The duplicated requirement can be put in one single place.  Communication range to be double checked by Qualcomm. | Revised to S1-223566 |
| 95 | 7.2 | S1-223554 | Huawei | Use case smart bridge health monitoring using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223352 | Same comments | Revised to S1-223567 |
| 99 | 7.2 | S1-223555 | Vodafone | Elderly Health Care | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223353 | Sony: 2nd requirement could be re-written to a more common style. Nokia disagrees. Sony can live with it like that.  Was agreed then Revised to S1-223663 then agreed again | Agreed |
| 47 | 7.2 | S1-223556 | KPN, Huawei | Update of KPI values in traffic scenario 6.1 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223366 | Revision of S1-223208. Revision of S1-223366. Remove Device per UE column. Spell out EPC | Agreed |
| 50 | 7.2 | S1-223557 | Huawei | update to traffic scenario 6\_2 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223367 | Was agreed | Revised to S1-223582 |
| 27 | 7.8 | S1-223558 | InterDigital | New use case on UAV flight route tracking at Rendezvous points | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223457 | Revision of S1-223238. Revision of S1-223457. | Revised to S1-223646 |
| 63 | 7.2 | S1-223559 | Intel | Use case on Applications requiring Fault-tolerant and Time bound Reliable ambientIoT communication. | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223324 | Revision of S1-223088. Revision of S1-223324. | Revised to S1-223696 |
| 70 | 7.2 | S1-223560 | vivo | New use case: Ambient IoT in Smart Agriculture | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223482 | Figure missing a title.  Samsung: the figure might have copyright; this is to be checked.  Ericsson: the sign between "30" and "100" is not correct in the KPI table, should be a straight line.  PR2 to be removed | Revised to S1-223573 |
| 87 | 7.2 | S1-223561 | Huawei | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223552 | Ericsson added as supporting company. One value changed.  Ericsson said they are "OK" with it, not that they want to co-sign it…  Oppo: put [] on 250 meters (communcation range). This is indoor case, there is shadow. | Revised to S1-223565 |
| 74 | 7.2 | S1-223562 | Xiaomi | Use Case on Ambient IoT for Museum Guide | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223327 | Revision of S1-223190. Revision of S1-223327. Remove req. #5 | Agreed |
| 79 | 7.2 | S1-223563 | Xiaomi | Use Case on Ambient IoT for Self-service Library | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223329 | Revision of S1-223194. Revision of S1-223329.  Clean-up needed  Ericsson: concern with req 4, and then no new req, so no need at all | Noted |
| 83 | 7.2 | S1-223564 | Huawei | use case-grazing dairy farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223551 | Revision of S1-223223. Revision of S1-223330. Revision of S1-223551. | Revised to S1-223684 |
| 88 | 7.2 | S1-223565 | Huawei | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223561 | Revision of S1-223224. Revision of S1-223331. Revision of S1-223552. Revision of S1-222561. | Revised to S1-223679 |
| 92 | 7.2 | S1-223566 | Huawei | Use case smart monitoring of manhole cover using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223553 | Revision of S1-223226. Revision of S1-223332. Revision of S1-223553. | Revised to S1-223685 |
| 96 | 7.2 | S1-223567 | Huawei | Use case smart bridge health monitoring using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223554 | Revision of S1-223230. Revision of S1-223352. Revision of S1-223554. | Revised to S1-223686 |
| 103 | 7.2 | S1-223568 | KPN | pCR on Use case on end-to-end logistics | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223354 | Revision of S1-223244. Revision of S1-223354.  Clean-up, renumbering of requirements needed  T-Mobile: pre-conditions to be further checked | Revised to S1-223706 |
| 106 | 7.2 | S1-223569 | KPN | pCR on Use case on pressure powered switch | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223355 | Revision of S1-223250. Revision of S1-223355.  Add editor's note to say transaction is FFS | Revised to S1-223707 |
| 110 | 7.2 | S1-223570 | Ericsson | Annex for considerations when choosing harvesting source | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223369#Energy storage and sensors are in dotted lines, to emphasize that they are optional | Revision of S1-223228. Revision of S1-223369.  Huawei, Nokia, Vodafone, QC to be added as co-source | Revised to S1-223708 |
| 60 | 7.2 | S1-223571 | Wiliot Ltd. | New use case: Fresh Food Supply Chain | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223547  No more figure | Revision of S1-223012. Revision of S1-223323. Revision of S1-223547. | Agree |
| 66 | 7.2 | S1-223572 | CATT | use case on Ambient IoT for Last Mile Delivery Tracking | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223325 | Revision of S1-223114. Revision of S1-223325.  T-Mobile: 1st req still ambiguous "support to authorize"  Ericsson: no req from use cases | Noted |
| 71 | 7.2 | S1-223573 | vivo | New use case: Ambient IoT in Smart Agriculture | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223560 | Revision of S1-223129. Revision of S1-223326. Revision of S1-223482. Revision of S1-223560. Footer in the image. Remove PR #2. Change symbol in the KPI table. | Agreed |
| 02 | 7.9.1 | S1-223574 | Rapporteur (Ericsson) | Cover sheet of the TR22.8773 for on step approval | TR | 22.877 |  |  |  |  |  |  | Replaces S1-223511 | Revision of S1-223511. | Agreed |
| 05 | 7.12 | S1-223575 | LG Electronics | SOBOT use case on Online cooperative 3D map building | pCR | 22.916 |  |  |  | 0.1.0 | Rel-19 | FS\_SOBOT | Replaces S1-223381 | Revision of S1-223027. Revision of S1-223381. Fix editors note PR#1 and remove PR#2. | Agreed |
| 18 | 7.1 | S1-223576 | China Telecom, vivo | Update of Use case on Rainfall Monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223491 | Revision of S1-223095. Revision of S1-223292. Revision of S1-223491. KPI 1m in brackets and clean up.  Was Agreed | Revised to S1-223716 |
| 21 | 7.1 | S1-223577 | Qualcomm | Update to Clause 5.10 | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223492 | Revision of S1-223100. Revision of S1-223492. Right KPI table format endorsed | Agreed |
| 32 | 7.1 | S1-223578 | China Mobile | pCR on updates on use case sensing for UAV intrusion detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223497 | Revision of S1-223176. Revision of S1-223497. Changes on changes and note in the table of KPIs. | Agreed |
| 38 | 7.1 | S1-223579 | ZTE, CMCC | Update section 5.12 | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223499 | Revision of S1-223146. Revision of S1-223298. Revision of S1-223499. Service Area KPI (Outdoor) | Agreed |
| 41 | 7.1 | S1-223580 | vivo | Update use case on sleep monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223501 | Moved from 7.2 Revision of S1-223157. Revision of S1-223501. Clean colors, No changes on changes. Numbering the requirements | Agreed |
| 50 | 7.1 | S1-223581 | Samsung | 22.837 pCR - Use case on Sensing of Sensor Groups | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223505 | Revision of S1-223062. Revision of S1-223338. Revision of S1-223505. | Revised to S1-223689 |
| 51 | 7.2 | S1-223582 | Huawei | update to traffic scenario 6\_2 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223557 | Revision of S1-223222. Revision of S1-223367. Revision of S1-223557. Final clean up | Agreed |
| 44 | 7.2 | S1-223583 | China Telecom | Pseudo-CR to remove editor s notes in clause 5.6 | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223365 | Revision of S1-223206. Revision of S1-223365.  Identical to 3365 (since previous version was finally agreeable). | Agreed. |
| 56 | 7.1 | S1-223584 | Huawei | New use case: Sensing for parking space determination | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223486 | Revision of S1-223201. Revision of S1-223339. Revision of S1-223486. | Revised to S1-223678 |
| 82 | 7.1 | S1-223585 | NTT DOCOMO, NTT | Pseudo-CR on Full tracking for immersive experience in Metaverse | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223483.  Service flow now numbered. | Vivo: Body movement/tracking service is application layer | Revised to S1-223591 |
| 60 | 7.1 | S1-223586 | Qualcomm | Use case on Seamless XR Streaming | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223506 | Revision of S1-223092. Revision of S1-223340. Revision of S1-223506. | Revised to S1-223691 |
| 63 | 7.1 | S1-223587 | Rakuten Mobile | Pseudo-CR Use case of sensing on Congestion Detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223341 | Revision of S1-223093. Revision of S1-223341. | Revised to S1-223692 |
| 68 | 7.1 | S1-223588 | China Mobile | pCR Sensing use case of integrated sensing and communication in smart grid | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223343 | Revision of S1-223113. Revision of S1-223343. | Revised to S1-223693 |
| 75 | 7.1 | S1-223589 | BUPT, China Mobile, CATT, OPPO | Use case on confidentiality and integrity protection for coordinated sensing | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223347 | Revision of S1-223145. Revision of S1-223347.  Several companies think that this ise case is not needed | Noted |
| 78 | 7.1 | S1-223590 | ZTE, CMCC | new UC: AMR collision avoidance in smart factories | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223346 | Revision of S1-223147. Revision of S1-223346. Changes on changes and clean up | Agreed |
| 83 | 7.1 | S1-223591 | NTT DOCOMO, NTT | Pseudo-CR on Full tracking for immersive experience in Metaverse | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223585 | Revision of S1-223149. Revision of S1-223483. Revision of S1-223585.  More off-line discussions needed | Revised to S1-223694 |
| 86 | 7.1 | S1-223592 | vivo | Use case on roaming for sensing service of sports monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223348 | Moved from 7.2 Revision of S1-223159. Revision of S1-223348. Clean up. Take out colors | Agreed |
| 89 | 7.1 | S1-223593 | OPPO | Use case of gesture recognition in smart home | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223349 | Revision of S1-223170. Revision of S1-223349. | Noted |
| 96 | 7.1 | S1-223594 | Xiaomi | New use case on sensing assisted high-definition map construction | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223487 | Revision of S1-223195. Revision of S1-223487.  Ericsson disagree with these use cases, and for T-Mobile, the requirements are already covered anyway. For DoCoMo, there are functional requirements. | Revised to S1-223695 |
| 102 | 7.1 | S1-223595 | Lenovo | Use Case of UE-based sensing | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223489 | Revision of S1-223247. Revision of S1-223489. | Noted |
| 08 | 7.4 | S1-223596 | China Unicom | Updated use case on network access control and mobility requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223410 | ZTE to be added as co-source, more editorial changes needed | Revised to S1-223623 |
| 12 | 7.4 | S1-223597 | China Unicom | Updated Use Case on Service Continuity and QoS Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223411 | Revision of S1-223139. Revision of S1-223411. | Revised to S1-223624 |
| 17 | 7.4 | S1-223598 | China Unicom | Use Case on Hosted Services Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223418 | Revision of S1-223028. Revision of S1-223418. | Revised to S1-223625 |
| 03 | 7.4.1 | S1-223599 | China Unicom | Cover sheet of the TR22.851 for approval | TR | 22.851  22.851  22.851 |  |  |  |  |  |  | Replaces S1-223421.  Sent for information, 75% complete | Revision of S1-223126. Revision of S1-223421. | Agreed |
| 19 | 4 | S1-223600 | Intel | New WID on Introduction to Support WBA OpenRoaming Framework for the Interconnect between SNPN & Credentials Holder (CH) | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223085 | Revision of S1-223085. | Revised to S1-223659 |
| 06 | 4 | S1-223601 | vivo | New WID on Personal IoT Networks phase 2 | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223072 | Revision of S1-223072. | Noted |
| 08 | 4 | S1-223602 | vivo | Collaboration of different PINs | CR | 22.261 | 0659 | 1 | B | 19.0.0 | Rel-19 | DUMMY | Replaces S1-223074 | B Wrong WI code Revision of S1-223074.  Ericsson, Qualcomm, Nokia, do not think that this WID is needed.  KPN think it is needed. | Noted |
| 29r | 7.9.1 | S1-223603 | InterDigital | New use case on Inter-PLMN scenario - TN and multiple NTN | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223243 |  | withdrawn |
| 105 | 7.1 | S1-223604 | vivo, CMCC | Use case on accurate sensing for automotive maneuvering and navigation | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223490 | Moved from 7.2 Revision of S1-223158. Revision of S1-223490. Clean up, reliability and the numbering of requirements. | Agreed |
| 112 | 7.1 | S1-223605 | Xiaomi | Sensing charging consideration | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223502 | Revision of S1-223039. Revision of S1-223502.  Ericsson: collective charging information already appear as a requirement in several other use cases, and it is not needed here. | Noted |
| 115 | 7.1 | S1-223606 | Xiaomi | Sensing privacy consideration update | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223503 | Revision of S1-223050. Revision of S1-223503. No changes on changes. | Agreed |
| 118 | 7.1 | S1-223607 | Xiaomi | Sensing Mission Critical and other priority services consideration update | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223504 | Revision of S1-223051. Revision of S1-223504. No changes on changes. | Agreed |
| 50 | 7.3 | S1-223608 | NTT DOCOMO | New use case of Work delegation to autonomous virtual alter ego | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223469 | Qualcomm asks that that Several sections are rewritten for clarity. | Revised to S1-223618 |
| 07 | 7.3 | S1-223609 | Samsung, Tencent | 22.856 pCR: Terminology for Mobile Metaverse Services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223441 | Revision of S1-223053. Revision of S1-223441. Remove spatial, delete second sentence from location agnostic | Agreed |
| 13 | 7.3 | S1-223610 | Samsung | 22.856 pCR: address an EN in 5.4 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223443 | Revision of S1-223058. Revision of S1-223443.  Qc has concerns about listing delegates' first names in the top section. This is not to be used in the future, and this is to be replaced by company names in the future.  "and" to be added in req 4 | Revised to S1-223709 |
| 19 | 7.3 | S1-223611 | China Mobile | pCR Metaverse updated use case 5.8 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223446 | Revision of S1-223111. Revision of S1-223446. Clean up | Agreed |
| 22 | 7.3 | S1-223612 | Huawei | Pseudo-CR on updates to clause 5.3 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223447 | Revision of S1-223142. Revision of S1-223447. | Agreed |
| 25 | 7.3 | S1-223613 | Vivo | Pseudo-CR on update the power consumption for Immersive AR Interactive Experience | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223461 | Revision of S1-223153. Revision of S1-223461. | Agreed |
| 31 | 7.3 | S1-223614 | Orange, Huawei, Samsung, Xiaomi | Digital asset container, presentation, access and certification | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223462 | Revision of S1-223043. Revision of S1-223462. Clean up No presentation | Agreed |
| 34 | 7.3 | S1-223615 | Orange, Huawei, Xiaomi | Interconnection of mobile metaverses | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223463 | Revision of S1-223044. Revision of S1-223463. Clean up. Remove Note from Req#1. No presentation | Agreed |
| 24 | 7.8 | S1-223616 | InterDigital | New use case for supporting UAV inflight network condition monitoring | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223456 | To be discussed if too similar or not with existing requirements.  Huawei has suggestions for improvements about Cross-monitoring, to be done at a future meeting. | Agreed |
| 46 | 7.3 | S1-223617 | China Telecom, Tencent | New Use Case on Access to Avatars | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223467 | Revision of S1-223094. Revision of S1-223312. Revision of S1-223467. Clean up. Delete application and from the 3 PRs. | Agreed |
| 51 | 7.3 | S1-223618 | NTT DOCOMO | New use case of Work delegation to autonomous virtual alter ego | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223608 | Revision of S1-223097. Revision of S1-223459. Revision of S1-223469. Revision of S1-223608.  1st req to be removed, unclear to T-Mobile  2nd req: remove "autonomous"  Telefonica: "authenticate of a digital entity" is an nuclear concept, FFS to be added  3rd req: remove "autonomous" (2 instances) | Revised to S1-223710 |
| 55 | 7.3 | S1-223619 | NTT DOCOMO | New use case of Information access service from public UE | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223470 | Revision of S1-223098. Revision of S1-223460. Revision of S1-223470.  Author propose to note | Noted |
| 61 | 7.3 | S1-223620 | China Mobile | pCR Metaverse use case of cooperation between metaverse service and network | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223472 | Revision of S1-223109. Revision of S1-223472.  Qc: the wording is very confusing  Samsung will bring another contribution on this topic at the next meeting. | Noted |
| 64 | 7.3 | S1-223621 | China Mobile | pCR Metaverse use case of supporting virtual meeting room of financial services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223473 | Revision of S1-223110. Revision of S1-223473.  Samsug the word "avatar" is not to be used.  Qc: the wording is unclear | Revised to S1-223711 |
| 69 | 7.3 | S1-223622 | Vivo | Pseudo-CR on communication power consumption analysis on mobile metaverse services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223475  Changes were to simplify the wording. | Revision of S1-223154. Revision of S1-223468. Revision of S1-223475.  Clean-up to be made by the editor. | Agreed |
| 09 | 7.4 | S1-223623 | China Unicom | Updated use case on network access control and mobility requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223596 | Editorial changes  No need for capital letters (to be changed by the editor). This is to be checked off-line. | Agreed |
| 13 | 7.4 | S1-223624 | China Unicom | Updated Use Case on Service Continuity and QoS Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223597 | Revision of S1-223139. Revision of S1-223411. Revision of S1-223597. | Agreed |
| 18 | 7.4 | S1-223625 | China Unicom | Use Case on Hosted Services Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223598 | Revision of S1-223028. Revision of S1-223418. Revision of S1-223598.  The car should be removed from the picture. | Revised to S1-223682 |
| 22 | 7.4 | S1-223626 | China Unicom | Use Case on Emergency Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223419 | Revision of S1-223035. Revision of S1-223307. Revision of S1-223419.  Highlights to be removed by rapporteur. | Agreed |
| 25 | 7.4 | S1-223627 | CATT | use case of long-distance mobility in and across shared network | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223412 | Revision of S1-223116. Revision of S1-223412.  Nokia prefer to postpone this use case but accept to have a note stating this is FFS.  Qc: last editor's note should be removed, it makes "unnecessary promises". | Revised to S1-223683 |
| 29 | 7.4 | S1-223628 | CATT | Considerations on security\_r2 | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223420 | Revision of S1-223115. Revision of S1-223420.  Nokia, Qc, Huaei: this still needs rewording, it should be postponed to next meeting. | Noted. |
| 05 | 7.6 | S1-223629 | China Telecommunications | Update of Use Case of AI model transfer management through direct device connection | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223413 | Revision of S1-223040. Revision of S1-223413. Clean up. Transmit data -> exchange data in PRs. | Agreed |
| 08 | 7.6 | S1-223630 | OPPO, Xiaomi | New Use Case - Direct device connection assisted Async FL | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223414 | Revision of S1-223172. Revision of S1-223414. Clean up. Delete Req#3 | Agreed |
| 12 | 7.2 | S1-223631 | OPPO | Discussion on remaining issue on KPI table template | discussion | 22.840 |  |  |  |  |  |  | Replaces S1-223544 | Revision of S1-223165. Revision of S1-223544.  "message size" can be on one line | Revised to S1-223699 |
| 11 | 7.6 | S1-223632 | OPPO | Update of Use Case - Direct device connection based federated learing | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223415 | Revision of S1-223174. Revision of S1-223415.  Qualcomm still has concerns and ask to postpone the issue. | Noted |
| 14 | 7.6 | S1-223633 | InterDigital | Update to the Use Case on AI Model Transfer Management through Direct Device Connection | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223416 | Revision of S1-223239. Revision of S1-223416.  "regional" or National" requirements, how about supra-national? To be solved at a future meeting.  "between or within" to be deleted  Delete editor's note. | Revised to S1-223713 |
| 18 | 7.6 | S1-223634 | OPPO, Xiaomi | Update of Use case - Proximity based work task offloading for AI/ML inference | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223417 | Revision of S1-223173. Revision of S1-223417.  Qc is not ready to agree | Revised to S1-223714 |
| 72 | 7.3 | S1-223635 | CableLabs | New Use Case - Metaverse Multi Access Scenario | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223474 | Revision of S1-223204. Revision of S1-223474.  T-Mobile, Telefonica still have concerns.  Samsung, Huawei, Telefonica, Ericsson, Nokia, to be involved in the draft discussions. | Noted |
| 21 | 7.7 | S1-223636 | CATT | use case on vehicle fleet management in the desert | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223396 | Revision of S1-223117. Revision of S1-223396.  Huawei: add editor's note to say clarifications are needed for 1st req | Revised to S1-223715 |
| 75 | 7.3 | S1-223637 | Ericsson | Privacy-Aware Dynamic Network Exposure in Immersive Interactive Experiences | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223476 | Revision of S1-223221. Revision of S1-223476.  Qc: first sentence to be shorten | Revised to S1-223712 |
| 25 | 7.7 | S1-223638 | CATT | Use case on service differentiation for UEs via satellite access | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223534 | Revision of S1-223118. Revision of S1-223397. Because there already was a 3397 tdoc uploaded Revision of S1-223534. | Agreed |
| 29 | 7.7 | S1-223639 | IIT Bombay | Usage of satellite connectivity for collection of information to aid terrestrial network planning | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223402 | Revision of S1-223167. Revision of S1-223393. Revision of S1-223402. operator's policies" instead of "preferences No presentation | Agreed |
| 14 | 7.7 | S1-223640 | China Telecom | Pseudo-CR on updates to clause 5.7 | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223532 | Revision of S1-223210. Revision of S1-223289. Revision of S1-223394. Revision of S1-223532.  T-Mobiles till has concerns and ask to postpone the issue. | Noted |
| 13 | 7.9.1 | S1-223641 | Intel | Use Case on UE with Multibeam and Multistream 3GPP Access | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223550 | Revision of S1-223084. Revision of S1-223400. Revision of S1-223550.  "access" should still be deleted from "access network" (that was done only for the first occurrence).  The note is to be removed.  Then there is not much left. | Noted. |
| 17 | 7.9.1 | S1-223642 | SKY Perfect JSAT Corporation | NTN and TN Inter-PLMN Multi-access in a Maritime scenario | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223404 | Revision of S1-223096. Revision of S1-223401. Revision of S1-223404. | Agreed |
| 21 | 7.9.1 | S1-223643 | IIT Bombay | Use case on Dual Steering through Satellite access and UAV | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223403 | Revision of S1-223156. Revision of S1-223294. Revision of S1-223403.  Incorrect format within the zip file. | Revised to S1-223722 |
| 30 | 7.9.1 | S1-223644 | Qualcomm | Use Case on intra-PLMN traffic duplication | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223407 | Revision of S1-223212. Revision of S1-223407. | agreed |
| 10 | 7.8 | S1-223645 | China Mobile | New use case: Use case for network-assisted UAV DAA | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223438 | Revision of S1-223185. Revision of S1-223438.  Nokia: on 2nd PR, Nokia has concerns about Location being derived out of sensing device.  This is to be put FFS  T-Mobile: "e.g." to be deleted  Nokia: 2 requirements have to be marked FFS | Revised to S1-223720 |
| 28 | 7.8 | S1-223646 | InterDigital | New use case on UAV flight route tracking at Rendezvous points | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223558 | Revision of S1-223238. Revision of S1-223457. Revision of S1-223558.  No compromise found off-line. | Withdrawn |
| 17 | 7.8 | S1-223647 | Huawei | New use case: 3GPP network as an information source to the UTM | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223453 | Revision of S1-223191. Revision of S1-223430. Revision of S1-223453. | Revised to S1-223718 |
| 15 | 7.11 | S1-223648 | China Mobile | pCR EnergyServ use case of supporting different energy efficiency modes in industrial campus | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223434 | Off line discussions needed | Revised to S1-223654 |
| 21 | 7.11 | S1-223649 | China Mobile | pCR EnergyServ use case of selecting network fault detection algorithm based on energy efficiency analysis | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223448 | Off line discussions needed | Revised to S1-223655 |
| 25 | 7.11 | S1-223650 | China Mobile | pCR EnergyServ use case of supporting service-level energy efficiency analysis for verticals | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223449 | This requirement is seen as too vague by some companies | Noted |
| 13 | 7.8 | S1-223651 | China Mobile | New use case: Use case for supporting USS/UTM relocation | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223439 | Revision of S1-223186. Revision of S1-223439.  T-Mobile: this use case is not needed, SA6 has already developed solutions for this. | Noted. |
| 08 | 7.11 | S1-223652 | MediaTek | Use Case for Reducing GHG Footprint of Computing-Aware Systems | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223433 | Revision of S1-223032. Revision of S1-223433.  No convergence during off-line discussions. | withdrawn |
| 11 | 7.11 | S1-223653 | Samsung | 22.822 pCR: New Use Case on Service Energy Monitoring by an Application Server | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223432 | Off line discussions needed | Revised to S1-223658 |
| 16 | 7.11 | S1-223654 | China Mobile | pCR EnergyServ use case of supporting different energy efficiency modes in industrial campus | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223648 | Revision of S1-223103. Revision of S1-223434. Revision of S1-223648. | Agreed |
| 22 | 7.11 | S1-223655 | China Mobile | pCR EnergyServ use case of selecting network fault detection algorithm based on energy efficiency analysis | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223649 | Revision of S1-223106. Revision of S1-223448. Revision of S1-223649. | Withdrawn |
| 29 | 7.11 | S1-223656 | ZTE | new UC EE of NG-RAN node per site | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223450 | Revision of S1-223127. Revision of S1-223450. | Agreed |
| 32 | 7.11 | S1-223657 | ZTE | new UC EE information exposure under NPN | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223451 | Revision of S1-223131. Revision of S1-223451. | Agreed |
| 12 | 7.11 | S1-223658 | Samsung | 22.822 pCR: New Use Case on Service Energy Monitoring by an Application Server | pCR | 22.882 |  |  |  | 0.1.0 | Rel-19 | FS\_EnergyServ | Replaces S1-223653  5th requirement removed. | Revision of S1-223064. Revision of S1-223432. Revision of S1-223653. | Agreed |
| 20 | 4 | S1-223659 | Intel | New WID on Introduction to Support WBA OpenRoaming Framework for the Interconnect between SNPN & Credentials Holder (CH) | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223600 | Revision of S1-223085. Revision of S1-223600.  Should be merged with 3311.  Orange would like to postpone both 3311 and 3659.  T-Mobile would like to have this topic restricted to SNTN.  Qualcomm is surprised by the fact that it changed from normative to study. | Noted |
| 08 | 7.12 | S1-223660 | Vivo | SOBOT Use case on real-time cooperative safety protection | pCR | 22.916 |  |  |  | 0.1.0 | Rel-19 | FS\_SOBOT | Replaces S1-223389 | Revision of S1-223078. Revision of S1-223389.  Section 3 is to be marked as TBD | Revised to S1-223724 |
| 32 | 4 | S1-223661 | OPPO | New WID on Information Exposure to Application in UE | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223178 | Revision of S1-223178. | Noted |
| 36 | 4 | S1-223662 | OPPO | TS22.261 CR Clarification on requirement of information exposure to applaction in UE | CR | 22.261 | 0663 | 1 | F | 19.0.0 | Rel-19 | TEI18 | Replaces S1-223189 | Wrong WI code, is it a correction? Revision of S1-223189.  Mediatek need more time. | Noted |
| 100 | 7.2 | S1-223663 | Vodafone | Elderly Health Care | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223555 | Revision of S1-223231. Revision of S1-223353. Revision of S1-223555. | Withdrawn |
| 01 | 10.2 | S1-223664 | Deutsche Telekom | FS\_Sensing Status report | Report |  |  |  |  |  |  |  | 65%, FCD: June | TR not ready for intormation | Noted |
| 02 | 10.2 | S1-223665 | OPPO | FS\_AmbientIoT Status report | Report |  |  |  |  |  |  |  | 70% |  | Noted |
| 03 | 10.2 | S1-223666 | Samsung | FS\_Metaverse Status report | Report |  |  |  |  |  |  |  | 40->60% complete | TR not ready for intormation, so should be less than 60%=> 55% is better | Noted |
| 04 | 10.2 | S1-223667 | China Unicom | FS\_NetShare Status report | Report |  |  |  |  |  |  |  | 75% complete |  | Noted |
| 05 | 10.2 | S1-223668 | UIC | FS\_FRMCS\_Ph3 Status report | Report |  |  |  |  |  |  |  | 50% |  | Noted |
| 06 | 10.2 | S1-223669 | OPPO | FS\_AIML\_Ph2 Status report | Report |  |  |  |  |  |  |  | 35->50%, new FCD: June |  | Noted |
| 07 | 10.2 | S1-223670 | Ericsson | FS\_RVAS Status report | Report |  |  |  |  |  |  |  | 100%, finished earlier |  | Noted |
| 08 | 10.2 | S1-223671 | Novamint | FS\_ 5GSAT\_Ph3 Status report | Report |  |  |  |  |  |  |  | 40->60% complete, new FCD: June | TR not ready for intormation, so should be less than 60%=> 55% is better | Revised to S1-223737 |
| 09 | 10.2 | S1-223672 | China Mobile | FS\_UAV\_Ph3 Status report | Report |  |  |  |  |  |  |  | 45% |  | Noted |
| 10 | 10.2 | S1-223673 | Qualcomm | FS\_DualSteer Status report | Report |  |  |  |  |  |  |  | 60%, FCD: June |  | Noted |
| 11 | 10.2 | S1-223674 | China Mobile | FS\_EnergieServ Status report | Report |  |  |  |  |  |  |  | 40%, FCD: June |  | Noted |
| 12 | 10.2 | S1-223675 | LGE | FS\_SOBOT Status report | Report |  |  |  |  |  |  |  | 40%, FCD: June |  | Revised to S1-223733 |
| 02r | 6.1 | S1-223676 | Google Inc. | Clarification on the periodic network selection for SENSE | CR | 22.011 | 0344 | 2 | F | 18.3.0 | Rel-18 | SENSE | Replaces S1-223313 | The text is changed to a note. | Agreed |
| 47r | 7.3 | S1-223677 | China Mobile | Pseudo-CR on Use case of virtual store in a metaverse marketplace | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223471 |  | Agreed |
| 56r | 7.1 | S1-223678 | Huawei | New use case: Sensing for parking space determination | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223584 |  | Revised to S1-223690 |
| 88r | 7.2 | S1-223679 | Huawei | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223565 | Clean-up needed | Revised to S1-223703 |
| 13r | 4 | S1-223680 | ZTE Corporation, LG Electronics | New requirements for QoS monitoring | CR | 22.261 | 0647 | 4 | B | 19.0.0 | Rel-19 | DUMMY | Replaces S1-223316 |  | Revised to S1-223728 |
| 04r | 6.1 | S1-223681 | ETRI, KT Corp, SK Telecom, LG Uplus | Corrections of message length and encoding for KPAS services | CR | 22.268 | 0077 | 2 | C | 18.1.0 | Rel-18 | TEI18 | Replaces S1-223310 |  | Agreed. |
| 18r | 7.4 | S1-223682 | China Unicom | Use Case on Hosted Services Requirements | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223625 |  | Agreed. |
| 25r | 7.4 | S1-223683 | CATT | use case of long-distance mobility in and across shared network | pCR | 22.851 |  |  |  | 0.2.0 | Rel-19 | FS\_NetShare | Replaces S1-223627 |  | Agreed. |
| 63rrr | 7.2 | S1-223684 | Huawei | use case-grazing dairy farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223564 | Clean-up needed  Communication range: Qc want not to have values at all, and write it as FFS. Agreeable for Huawei.  Note 3 to be deleted | Revised to S1-223702 |
| 67rrr | 7.2 | S1-223685 | Huawei | Use case smart monitoring of manhole cover using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223566 | Same comment on communication range from Qualcomm, to be put FFS | Revised to S1-223704 |
| 69rrr | 7.2 | S1-223686 | Huawei | Use case smart bridge health monitoring using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223567 | Same comment on communication range from Qualcomm, to be put FFS | Revised to S1-223705 |
| 05r | 3 | S1-223687 | Deutsche Telekom | Reply LS to CT1 (C1-226124) on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223536 | CR to be attached | Revised to S1-223725 |
| 62r | 3 | S1-223688 | OPPO | [Draft] Reply LS to SA (cc SA2) on QoS Sustainability analytics and V2X service adaptations | LS out |  |  |  |  |  | Rel-19 |  | Replaces S1-223543  SA6 no more in destination | T-Mobile: SA6 should be restored in cc, since they are working on this requirement.  Problem with future dates. | Revised to S1-223727 |
| 50r | 7.1 | S1-223689 | Samsung | 22.837 pCR - Use case on Sensing of Sensor Groups | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223581 |  | Revised to S1-223701 |
| 56rr | 7.1 | S1-223690 | Huawei | New use case: Sensing for parking space determination | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223678 |  | Agreed |
| 60r | 7.1 | S1-223691 | Qualcomm | Use case on Seamless XR Streaming | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223586 | The 2nd requirement is agreed to be deleted.  "Peter" to be changed to "Jose".  1st requirement: add "for processing" | Revised to S1-223730 |
| 63r | 7.1 | S1-223692 | Rakuten Mobile | Pseudo-CR Use case of sensing on Congestion Detection | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223587 | Asked to be postponed by the author. | Noted. |
| 68r | 7.1 | S1-223693 | China Mobile | pCR Sensing use case of integrated sensing and communication in smart grid | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223588 | 1st req: Telefonica: delete "core". Change agreed. | Revised to S1-223731 |
| 83r | 7.1 | S1-223694 | NTT DOCOMO, NTT | Pseudo-CR on Full tracking for immersive experience in Metaverse | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223591 |  | Noted |
| 96r | 7.1 | S1-223695 | Xiaomi | New use case on sensing assisted high-definition map construction | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223594 |  | Withdrawn |
| 63r | 7.2 | S1-223696 | Intel | Use case on Applications requiring Fault-tolerant and Time bound Reliable ambientIoT communication. | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223559 | Clean-up needed.  T-Mobile: Requirements in the table already, no need to put them twice.  Intel: the text is for explanations  Huawei: concern with req#1, OK to put it as FFS. OK for Intel. | Revised to S1-223700 |
| 16r | 4 | S1-223697 | NOVAMINT, EDF, Quixoticity | New SID on enhancements of Roaming and Interconnection of NPN | SID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223311 | The meaning of "Interconnection" in this context is not clear to T-Mobile. This is not clarified in the scope.  Orange also prefers to postpone it.  This can be brought to the ad-hoc meeting.  It is expected some active participation from the companies having issues at this meeting. | Noted |
| 09r | 7.2 | S1-223698 | OPPO | Pseudo-CR on Ambient power and energy storage for Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223322 |  | Agreed. |
| 12r | 7.2 | S1-223699 | OPPO | Discussion on remaining issue on KPI table template | discussion | 22.840 |  |  |  |  |  |  | Replaces S1-223631 |  | Endorsed. |
| 63rr | 7.2 | S1-223700 | Intel | Use case on Applications requiring Fault-tolerant and Time bound Reliable ambientIoT communication. | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223696 |  | Agreed. |
| 50rr | 7.1 | S1-223701 | Samsung | 22.837 pCR - Use case on Sensing of Sensor Groups | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223689 |  | Agreed |
| 63rrrr | 7.2 | S1-223702 | Huawei | use case-grazing dairy farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223684 |  | Agreed. |
| 88rr | 7.2 | S1-223703 | Huawei | smart pig farm\_was S1-222185\_pCR-22840-Ambient\_IoT in smart livestock farming | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223679 |  | Agreed. |
| 67rrrr | 7.2 | S1-223704 | Huawei | Use case smart monitoring of manhole cover using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223685 |  | Agreed. |
| 69rrrr | 7.2 | S1-223705 | Huawei | Use case smart bridge health monitoring using Ambient IoT | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223686 |  | Agreed. |
| 103r | 7.2 | S1-223706 | KPN | pCR on Use case on end-to-end logistics | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223568 |  | Agreed |
| 106r | 7.2 | S1-223707 | KPN | pCR on Use case on pressure powered switch | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223569 |  | Agreed. |
| 110r | 7.2 | S1-223708 | Ericsson | Annex for considerations when choosing harvesting source | pCR | 22.840 |  |  |  | 0.2.0 | Rel-19 | FS\_AmbientIoT | Replaces S1-223570 |  | Agreed. |
| 13r | 7.3 | S1-223709 | Samsung | 22.856 pCR: address an EN in 5.4 | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223610 |  | Agreed. |
| 51r | 7.3 | S1-223710 | NTT DOCOMO | New use case of Work delegation to autonomous virtual alter ego | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223618 |  | Agreed. |
| 64r | 7.3 | S1-223711 | China Mobile | pCR Metaverse use case of supporting virtual meeting room of financial services | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223621 |  | Agreed |
| 75r | 7.3 | S1-223712 | Ericsson | Privacy-Aware Dynamic Network Exposure in Immersive Interactive Experiences | pCR | 22.856 |  |  |  | 0.2.0 | Rel-19 | FS\_Metaverse | Replaces S1-223637 |  | Agreed. |
| 14r | 7.6 | S1-223713 | InterDigital | Update to the Use Case on AI Model Transfer Management through Direct Device Connection | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223633 |  | Agreed. |
| 18r | 7.6 | S1-223714 | OPPO, Xiaomi | Update of Use case - Proximity based work task offloading for AI/ML inference | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223634 |  | Revised to S1-223732 |
| 21r | 7.7 | S1-223715 | CATT | use case on vehicle fleet management in the desert | pCR | 22.865 |  |  |  | 0.1.0 | Rel-19 | FS\_5GSAT\_Ph3 | Replaces S1-223636 |  | Agreed. |
| 18r | 7.1 | S1-223716 | China Telecom, vivo | Update of Use case on Rainfall Monitoring | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223576 |  | revised |
| 07r | 7.8 | S1-223717 | Orange | Geofencing for Visual Line-of-Sight UAV missions | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223437 | FFS to be put for both requirements | Revised to S1-223719 |
| 17r | 7.8 | S1-223718 | Huawei | New use case: 3GPP network as an information source to the UTM | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223647 | 1st req to be put FFS | Revised to S1-223721 |
| 07rr | 7.8 | S1-223719 | Orange | Geofencing for Visual Line-of-Sight UAV missions | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223717 |  | Agreed. |
| 10r | 7.8 | S1-223720 | China Mobile | New use case: Use case for network-assisted UAV DAA | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223645 |  | Agreed. |
| 17rr | 7.8 | S1-223721 | Huawei | New use case: 3GPP network as an information source to the UTM | pCR | 22.843 |  |  |  | 0.1.0 | Rel-19 | FS\_UAV\_Ph3 | Replaces S1-223718 |  | Agreed. |
| 21r | 7.9.1 | S1-223722 | IIT Bombay | Use case on Dual Steering through Satellite access and UAV | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223643 |  | Agreed. |
| 34r | 7.9.1 | S1-223723 | Qualcomm | Use Case on interworking with non-3GPP access | pCR | 22.841 |  |  |  | 0.1.0 | Rel-19 | FS\_DualSteer | Replaces S1-223409 |  | Agreed. |
| 08r | 7.12 | S1-223724 | Vivo | SOBOT Use case on real-time cooperative safety protection | pCR | 22.916 |  |  |  | 0.1.0 | Rel-19 | FS\_SOBOT | Replaces S1-223660 |  | Agreed. |
| 05rr | 3 | S1-223725 | Deutsche Telekom | Reply LS to CT1 (C1-226124) on SENSE for home PLMN and disaster roaming PLMN | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223687 |  | Agreed. |
| 25r | 3 | S1-223726 | NTT DOCOMO | [DRAFT] Reply LS to SA2 on low latency communication applications to use RAN feedback on periodicity for scheduling | LS out |  |  |  |  |  | Rel-18 |  | Replaces S1-223317 |  | Agreed |
| 62rr | 3 | S1-223727 | OPPO | [Draft] Reply LS to SA (cc SA2, SA6) on QoS Sustainability analytics and V2X service adaptations | LS out |  |  |  |  |  | Rel-19 |  | Replaces S1-223688 |  | Revised to S1-223734 |
| 13rr | 4 | S1-223728 | ZTE Corporation, LG Electronics | New requirements for QoS monitoring | CR | 22.261 | 0647 | 5 | B | 19.0.0 | Rel-19 | DUMMY | Replaces S1-223680 |  | Agreed. |
| 11r | 4 | S1-223729 | ZTE Corporation, CEPRI, China Telecom, China Unicom, LG Electronics | New WID on Measurement Data Collection | WID new |  |  |  |  |  | Rel-19 |  | Replaces S1-223315 |  | Agreed. |
| 60rr | 7.1 | S1-223730 | Qualcomm | Use case on Seamless XR Streaming | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Replaces S1-223691 |  | Agreed. |
| 68rr | 7.1 | S1-223731 | China Mobile | pCR Sensing use case of integrated sensing and communication in smart grid | pCR | 22.837 |  |  |  | 0.2.0 | Rel-19 | FS\_Sensing | Revision of S1-223343 |  | Agreed. |
| 18rr | 7.6 | S1-223732 | OPPO, Xiaomi | Update of Use case - Proximity based work task offloading for AI/ML inference | pCR | 22.876 |  |  |  | 0.1.0 | Rel-19 | FS\_AIML\_MT\_Ph2 | Replaces S1-223714 |  | Agreed. |
| 12r | 10.2 | S1-223733 | LGE | FS\_SOBOT Status report | Report |  |  |  |  |  |  |  | Replaces S1-223675  40%, FCD: June |  | Noted |
| 62rrr | 3 | S1-223734 | OPPO | Reply LS to SA (cc SA2, SA6) on QoS Sustainability analytics and V2X service adaptations | LS out |  |  |  |  |  | Rel-19 |  | Replaces S1-223727 |  | Agreed. |
|  | 10.2 | S1-223735 | ZTE | Status report of MeasureData | report |  |  |  |  |  |  |  | 100% |  | Noted |
|  |  | S1-223736 | Editor | Cover page for TR 22.840 on Ambient\_IoT | TR | 22.840 |  |  |  |  |  |  | Send it to SA, and the chair will send it to RAN | Should be no contentious issues  Outstanding issues to be rewritten | Revised to S1-223738 |
| 08r | 10.2 | S1-223737 | Novamint | FS\_ 5GSAT\_Ph3 Status report | Report |  |  |  |  |  |  |  | Replaces S1-223671 |  | Noted |
| r |  | S1-223738 | Editor | Cover page for TR 22.840 on Ambient\_IoT | TR | 22.840 |  |  |  |  |  |  | Replaces S1-223736 |  | Agreed. |