**3GPP TSG-SA WG1 Meeting #92e**

**Electronic Meeting, 10 – 19 Nov 2020**

# tdoc list SA1#92e version END OF MEETING v2

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Order | Ag.Item | Tdoc # | Source | Title | Type | Spec | CR# | r | cat | Version in | Rel | WI | Summary | Discussion | Conclusion | Rev numb |
| 01 | 1.1 | [S1-204000](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204000.zip) | Chair | Draft agenda for SA1#92e | agenda |  |  |  |  |  |  |  |  |  | **Revised to 4001** |  |
| 02 | 1.1 | [S1-204001](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204001.zip) | Chair | 2nd Draft agenda for SA1#92e | agenda |  |  |  |  |  |  |  |  |  | **Revised to 4002** |  |
| 03 | 1.1 | [S1-204002](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204002.zip) | Chair | Agenda for SA1#92e with tdoc allocation | agenda |  |  |  |  |  |  |  |  |  | **Approved** |  |
| 02 | 1.2 | [**S1-204004**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204004.zip) | ETSI | Draft minutes of SA1#91e | report |  |  |  |  |  |  |  |  |  | **Revised to 4005** |  |
| 03 | 1.2 | [S1-204005](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204005.zip) | ETSI | Minutes of SA1#91e | report |  |  |  |  |  |  |  |  |  | **Approved** |  |
| 01 | 2 | [S1-204003](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204003.zip) | Chair | SA1-related topics at SA#89e | report |  |  |  |  |  |  |  |  |  | **Noted** |  |
| 02 | 2 | [S1-204006](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204006.zip) | ETSI | Workplan presentation for SA1#92e | Work Plan |  |  |  |  |  |  |  |  |  | **Noted** |  |
| 03 | 2 | [S1-204300](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204300.zip) | Chair | Guidelines for SA1#92e |  |  |  |  |  |  |  |  |  |  | **Noted** |  |
| 04 | 2 | [S1-204301](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204301.zip) | Chair | Withdrawn |  |  |  |  |  |  |  |  |  |  | **Withdrawn** |  |
| 02 | 3 | [S1-204274](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204274.zip) | C1-204941 | LS on high priority service exempt from release due to SOR | LS in |  |  |  |  |  |  |  | CT1 asking confirmation about what is meant by "a UE engaged in high priority service" and What are “other sessions defined by the user to be of high priority?” Do those sessions include MMTEL voice/video calls or SMS? | See Proposed answer and related CR in S1-204079 and S1-204080. Other proposals in S1-204250, S1-204266. All these proposed answers are in line. | **Noted** |  |
| 03 | 3 | [**S1-204079**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204079.zip) | Nokia, Nokia Shanghai Bell | reply LS to CT1 on high priority service exempt from release due to SOR | LS out |  |  |  |  |  |  |  | Nokia proposes to answer respectively "yes" and, on the 2nd part, provides a CR to clarify the requirement. |  | **Noted** |  |
| 04 | 3 | [**S1-204080**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204080.zip) | Nokia, Nokia Shanghai Bell | Clarification of high priority service for Steering of Roaming | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0477 |  | F | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**SMARTER\_Ph2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | CR0477R- Cat F  Wrong WI code. | **Noted** |  |
| 05 | 3 | [**S1-204250**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204250.zip) | Qualcomm Incorporated | Draft LS to CT1 reply on services exempt from release due to SOR | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Qualcomm proposes to answer "yes" and, for the 2nd part, they clarify that a user should be able to configure the UE to set preferences about which services should not be interrupted by SOR, including e.g. MMTEL voice/video. |  | **Noted** |  |
| 06 | 3 | [**S1-204266**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204266.zip) | NTT DOCOMO INC. | [DRAFT] Reply LS to CT1 on high priority service exempt from release due to SOR | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | DoCoMo answers "yes" and "That is possible: Interruption of e.g. MMTEL voice/video is based on HPLMN policy and user subscription. See the related CRs. | Kept open for revision: "uninterrupted service" has to be defined.  The core text of the LS can be made simpler since the LS will include the CRs. | **Revised** | **S1-204376** |
| 06r | 3 | S1-204376 | NTT DOCOMO INC. | [DRAFT] Reply LS to CT1 on high priority service exempt from release due to SOR | LS out |  |  |  |  |  | **Rel-17** |  | Replaces S1-204266 |  | Agreed. |  |
| 07 | 3 | [**S1-204186**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204186.zip) | NTT DOCOMO | Clarification of a steering of roaming requirement | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0488 |  | F | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**eCPSOR\_CON**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880049) |  | Cat F  S1-204186r7 provided for approval day | **Revised** | **S1-204377** |
| 07r | 3 | S1-204377 | NTT DOCOMO | Clarification of a steering of roaming requirement | CR | 22.261 | 0488 | 1 | F | 17.4.0 | **Rel-17** | **eCPSOR\_CON** | Replaces S1-204186 |  | Agreed. |  |
| 08 | 3 | [**S1-204187**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204187.zip) | NTT DOCOMO | Clarification of a steering of roaming requirement | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0489 |  | A | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**eCPSOR\_CON**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880049) |  | Cat A  Orig. version provided for approval day  S1-204187r1 (o: chairman, Qualcomm): agreed (based on 4186r7) | **Revised** | **S1-204378** |
| 08r | 3 | S1-204378 | NTT DOCOMO | Clarification of a steering of roaming requirement | CR | 22.261 | 0489 | 1 | A | 18.0.0 | **Rel-18** | **eCPSOR\_CON** | Replaces S1-204187 |  | Agreed. |  |
| 10 | 3 | [S1-204275](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204275.zip) | C1-206507 | New satellite radio access technologies for PLMN selection | LS in |  |  |  |  |  |  |  | CT1 ask the following questions to SA1:  Q1: Is there a service requirement to differentiate between “NG-RAN” and “satellite access to 5GC" for the purpose of PLMN selection?  Q2: Does SA1 intend to introduce new associated Access Technology identifier(s) for "satellite access" for the Operator Controlled PLMN Selector list and a User Controlled PLMN Selector list (stored on the SIM/USIM card). If yes, how many different identifiers? | Proposed answers in 4218 (related CR in 4212) and 4252 (related CRs in 4253 and 4254).  For Thales, LEO/MEO/GEO/etc could be distinguished. SA2 could be consulted. For Ericsson, SA2 should not be involved. This is a matter for SA1, potentially for CT1.  Discussions to be continued by e-mail. | **Noted** |  |
| 10r | 3 | S1-204290 | Thales S.A. [SA1] | [DRAFT] LS to CT1 (SA2, RAN3) on Satellite RATs for PLMN selection | LS |  |  |  |  |  |  |  |  |  | **Withdrawn** |  |
| 11 | 3 | [**S1-204218**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204218.zip) | TNO | Reply LS to CT1 (cc SA2) on New satellite radio access technologies for PLMN selection | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Proposed answers:  Q1: no (added by the CR).  Q2: left to SA2. |  | **Noted** |  |
| 12 | 3 | [**S1-204212**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204212.zip) | TNO, Thales | Addition of new Core Network RAT types for satellite access | CR | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0317 |  | C | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) | This CR adds the new core network RAT types for satellite access to the list of access type identifiers examples.  The CR adds "NR(LEO), NR(MEO), NR(GEO), NR(OTHERSAT)," to the sentence: "It shall be possible to have an associated Access Technology identifier e.g., N G-RAN, " |  | **Noted** |  |
| 13 | 3 | [**S1-204252**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204252.zip) | Qualcomm Incorporated | Draft LS to CT1 (cc SA2, RAN2) reply on Satellite RAT for PLMN-RAT selection | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Proposed answers:  Q1: it should be "yes" (added by the CR).  Q2: not clear at this stage. Given the above, SA1 agreed CR assumes that there is no need for further granularity of satellites RAT prioritization for PLMN selection. | S1-204252r1 provided for approval day  S1-204252r2 (o: Thales, DT) opened: agreed, clean-up needed + add CR+ "possible associated access" | **Revised** | **S1-204379** |
| 13r | 3 | S1-204379 | Qualcomm Incorporated | Draft LS to CT1 (cc SA2, RAN2) reply on Satellite RAT for PLMN-RAT selection | LS out |  |  |  |  |  | **Rel-17** |  | Replaces S1-204252 |  | Agreed. |  |
| 14 | 3 | [**S1-204253**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204253.zip) | Qualcomm Incorporated | Discussion on Satellite RAT for PLMN selection | other |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | This introduces the CR 4254. |  | **Noted** |  |
| 15 | 3 | [**S1-204254**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204254.zip) | Qualcomm Incorporated | Satellite RAT indicator for PLMN selection | CR | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0319 |  | F | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) | Here, only "satellite NG-RAN" is added, without distinction LEO/MEO/GEO/etc. | Thales, Ericsson and Deutsche Telekom propose to postpone the LS and related proposed CRs until a clear direction is taken by SA1 and SA2.  Ericsson and Apple agree with Qualcomm that a single Satellite Access technology should be enough in this context - if needed to be identified at all.  "it shall be possible" to be removed in the same paragraph.  Qualcomm is reluctant to postpone only for the reason that other groups should decide. Qualcomm sees it as an SA1 responsibility.  The minimum in common between the TNO/Thales proposal and Qualcomm proposal is to have one satellite type of access. | **Agreed** |  |
| 17 | 3 | [S1-204276](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204276.zip) | C1-206625 | LS on MuDe functionality | LS in |  |  |  |  |  |  |  | CT1 has started working on the Rel-17 functionality for multi-device and multi-identity enhancements and requires clarification on the following issues:  1) Is it a requirement for a user to be able to from one of its UEs (UEa) activate or deactivate an identity on another of its UEs (UEb)?  2) If the answer to 1) is yes, what is the granularity of the activation, is it sufficient to deactivate all identities at UEb, e.g. to avoid a forgotten phone to ring.  3) What is the impact on a session in progress when a public user identity is deactivated (e.g. terminated, modified, maintained, etc.)?  4) Should the activation / deactivation of the identity impact both mobile originated and mobile terminated services? | See also 4071 on this topic. | **Noted** |  |
| 18 | 3 | [**S1-204070**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204070.zip) | vivo Mobile Com. (Chongqing) | Reply LS to CT1 (cc SA3) on MuDe functionality | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | It is proposed to see the CR in 4071. | S1-204070r1 provided for approval day | **Revised** | **S1-204380** |
| 18r | 3 | S1-204380 | vivo Mobile Com. (Chongqing) | Reply LS to CT1 (cc SA3) on MuDe functionality | LS out |  |  |  |  |  | **Rel-17** |  | Replaces S1-204070 |  | Agreed. |  |
| 19 | 3 | [**S1-204071**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204071.zip) | vivo Mobile Com. (Chongqing) | Clarification on MuDE activation / deactivation | CR | [**22.173**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=620) | 0131 |  | F | 17.1.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**MuDE**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880043) | The CR adds requirements to explicity state that an authorised user may modify the status of an indentity on another UE. | . | **Revised to S1-204328** |  |
| 20 | 3 | [S1-204328](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204328.zip) | Vivo | Clarification on MuDE activation / deactivation |  |  |  |  |  |  |  |  |  | Revision of S1-204071.  Same as S1-204071r1 | **Agreed** |  |
| 22 | 3 | [S1-204277](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204277.zip) | C1-206649 | LS on MINT (Minimization of service Interruption) requirements | LS in |  |  |  |  |  |  |  | 3 questions from CT1 to SA1:  Q1: Which level of services are the PLMNs not subject to disaster required to provide to “Disaster Inbound Roamers”? Emergency services only, a limited set of services hosted by the PLMN not subject to disaster, or the same set of services that the “Disaster Inbound Roamers” would receive in their HPLMN?  Q2: If the answer to Q1 is: a limited set of services, can it be assumed that the NFs of the PLMM subject to disaster required to support those services (the UDM and the AUSF) are still operational?  Q3: If the answer to Q1 is: the same set of services, can it be assumed that the NFs of the PLMM subject to disaster required to support those services (the UDM, the AUSF, the SMF and UPF for any DNN requiring home-routed PDU session, and the IMS) are still operational? | Proposed answers in 4028 and 4251, which are quite in line. | **Noted** |  |
| 23 | 3 | [**S1-204028**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204028.zip) | LG Electronics Inc. | Reply LS on MINT requirements (C1-206649) | LS out |  |  |  |  |  |  |  | LG's proposed answers are:  Q1: all services should be supported.  Q2: yes  Q3: yes | It sounds from the incoming LS that either Q2 or Q3 should be answered but not both. | **Noted** |  |
| 24 | 3 | [**S1-204251**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204251.zip) | Qualcomm Incorporated | Draft LS to CT1 (cc SA2) reply on MINT requirements | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Qualcomm's proposed answers are:  Q1: full set of services  Q2: NA  Q3: yes | This is in line with LG's proposal (except that Q2 is not answered this is does not apply).  Rev1: agreeable | **Revised to S1-204329** |  |
| 25 | 3 | [S1-204329](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204329.zip) | Qualcomm | Draft LS reply on MINT requirements |  |  |  |  |  |  |  |  |  | Revision of S1-204251.  Same as S1-204251r1 | **Agreed** |  |
| 27 | 3 | [S1-204280](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204280.zip) | S2-2006029 | LS on Use Cases for providing IMS services to SNPN | LS in |  |  |  |  |  |  |  | SA2 asks SA1 the following:  Q1: Whether there are service requirement where the SNPN can have an SLA agreement with a third party (different Administrative Domain) IMS provider to provide IMS services.  Q2: For the scenario where the SNPN provides the IMS network, if there is need to consider additional variants regarding the IMS authentication/IMS identifiers similar to what exists today. | Proposed answers in 4008, 4142 and 4259. | **Noted** |  |
| 28 | 3 | [**S1-204008**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204008.zip) | Ericsson, Vivo | Reply LS to SA2 on Use Cases for providing IMS services to SNPN | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | A1: This scenario is covered by the requirement from 3GPP TS 22.261, chapter 6.25.2:  A2: 3GPP TS 22.228 has a requirement that 5G system shall be able to support IMS in non-public networks. It also illustrates some of the possible deployment scenarios for IMS but this is not an exhaustive list, so SA1 do not have a limitation in the number of variants for IMS authentication/IMS identifiers. | This is in line with China Mobile.  Ericsson version (no requirement and indications given to point at some annex): 12 companies are supporting  Qualcomm (no service requirement): 5 companies are supporting this view.  A compromise is possible by answering "no" and pointing at the annex.  Vivo pointed out that this is already the Ericsson's statement. The only thing is that it starts with the word "although".  4008r4: still concerns from Orange and Qualcomm on " In this situation an Access Network operator is an SNPN."  Qualcomm proposes as a to remove this sentence. LG and Orange support this view.  For Ericsson and vivo, this sentence is valid. Huawei supports this view.  Nokia proposes as a way out: " In this situation an Access Network operator can be an SNPN.". This does not work for KPN nor for LG nor for Qualcomm nor for Orange.  Qualcomm and Orange object in sending the LS with this sentence. Vodafone prefer to have the sentence.  Ericsson agree to remove the sentence.  4008r4 Agreed without the sentence " In this situation an Access Network operator is an SNPN." | **Revised** | **S1-204381** |
| 28r | 3 | S1-204381 | Ericsson, Vivo | Reply LS to SA2 on Use Cases for providing IMS services to SNPN | LS out |  |  |  |  |  | **Rel-17** |  | Replaces S1-204008 |  | Agreed. |  |
| 29 | 3 | [**S1-204142**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204142.zip) | China Mobile Com. Corporation | Reply LS to SA2 on use cases for providing IMS services to SNPN | LS out |  |  |  |  |  |  |  | A1: Yes, this requirement can be covered by the following in TS 22.261 chapter 6.25.2:  A2: Regarding the scenario, SA1 does not have limitation on the IMS authentication/IMS identifiers. | To be covered by Ericsson's 4008. | **Noted** |  |
| 30 | 3 | [**S1-204259**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204259.zip) | Qualcomm Incorporated | Draft LS to SA2 reply on providing IMS services to SNPN | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Qualcomm's proposed answer is different since they propose to answer that "there are no service requirements supporting those specific scenarios and use cases." | Vivo supports Ericsson's approach.  KPN and Vodafone also agrees with Ericsson, without the 22.261 example.  Nokia and LGE prefer the Qualcomm's approach.  Deutsche Telekom have concerns with the statement "SA1 do not have a limitation in the number of variants for IMS authentication/IMS identifiers."  6 companies prefer Ericsson's proposal against 5 companies prefering Qualcomm's approach.  No consensus is possible at this stage – left for off-line discussions.  Ericsson' s-based version can finally be agreed. | **Noted** |  |
| 32 | 3 | [S1-204281](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204281.zip) | S2-2006030 | LS on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription | LS in |  |  |  |  |  |  |  | SA2 ask SA1 to clarify whether PLMN selection can be extended to also support SNPN selection using a PLMN subscription with 3GPP identifiers and credentials and if so, to specify the respective requirements for that. | Several proposed answers in 4073+4072, 4029 (CR), 4188, 4213+4214, 4256+4257+4258.  There are 2 views in the answers: DT says "no" while Intel and Qualcomm say "no but an attached CR (4029) is clarifying it".  See discussion under 4213. | **Noted** |  |
| 33 | 3 | [**S1-204073**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204073.zip) | Deutsche Telekom AG | reply LS to SA2 on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Proposed Answer:  SA1 has discussed under Rel16 extending the PLMN selection to also support SNPN selection and concluded it is not needed. In Rel17 work on further enhancements on NPN did not include PLMN selection optimizations to include SNPN selection for UEs with a PLMN subscription.  SA1 may consider further alignment gaps, or potential new requirements in a future release. | No requirement for Rel-17  4073r4 agreed | **RevisedAgreed (\*)** | **S1-204382** |
| 33r | 3 | S1-204382 | Deutsche Telekom AG | reply LS to SA2 on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription | LS out |  |  |  |  |  | **Rel-17** |  | Replaces S1-204073 |  | Agreed. |  |
| 34 | 3 | [**S1-204072**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204072.zip) | Deutsche Telekom AG, LG Electronics | Discussion paper on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription | discussion |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Discussion to clarify why PLMN selection extention is not needed in Rel17 |  | **Noted** |  |
| 35 | 3 | [**S1-204029**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204029.zip) | LG Electronics Inc. | Rel-18 CR to 22.011 on network selection for PLMN and NPN | CR | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0316 |  | B | 17.2.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=60094)**18** | Related to incoming LS S2-2006030. This contibution is proposal for Rel-18.  The requirement is clarified so that: Based on the PLMN operators’ policy, PLMN selection procedure further consider SNPNs in addition to PLMNs | Also "no requirement for Rel-17" but this CR adds it in Rel-18.  A proper Work Item should be used rather than "TEI18" | **Noted** |  |
| 36 | 3 | [**S1-204188**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204188.zip) | Ericsson LM | Reply LS to SA2 on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription | LS out |  |  |  |  |  |  |  | Answer: Based on the above description, SA1 do not have any requirements in Rel-17 for extending PLMN selection to also support SNPN selection for the scenario where PLMN subscription is used with 3GPP identifiers and credentials. | Also "no requirement for Rel-17" | **Noted** |  |
| 37 | 3 | [**S1-204213**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204213.zip) | Intel | Reply LS to SA2 on extending PLMN selection to include SNPN selection for UEs with a PLMN subscription | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Intel's approach is to add the requirement for Rel-17. | See CR in 4214.  Rev1 presented later on during the week. It is now clarifying:  "SA1 would like to point to the following service requirements in TS22.261, clause 6.18:  For a user with a single operator subscription, the use of multiple serving networks operated by different operators shall be under the control of the home operator.  When a service is offered by multiple operators, the 5G system shall be able to maintain service continuity with minimum service interruption when the serving network is changed to a different serving network operated by a different operator."  With this clarification, Intel would agree that the CR is postponed to a future meeting.  DT, Huawei, Ericsson and LG cannot agree with this proposed way forward. They do not see this proposed text relevant to the problem.  For KPN, there might even not be roaming between SNPN and PLMN.  Intel clarified that the very last paragraph is the mostly important one for them. The rest can be deleted.  DT's view ("PLMN selection cannot be extended, no requirement for Rel-16 nor Rel-17)": 10 supporting companies  Intel's view: ("PLMN selection has to be extended to ensure service continuity"): 1 supporting company (Intel)  So the DT approach is to be followed. | **Noted** |  |
| 38 | 3 | [**S1-204214**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204214.zip) | Intel | Clarification of network selection for PLMN or NPN | CR | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0318 |  | F | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) | This CR:  - adds reference to TS 22.261 where it provides the service requirements for non-public network  - adds the abbreviation of non-public network (NPN)  - clarifies that PLMN selection includes both PLMN and NPN selection |  | **Noted** |  |
| 39 | 3 | [**S1-204256**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204256.zip) | Qualcomm Incorporated | Draft LS to SA2 reply on SNPN selection | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | SA1 agreed to extend PLMN selection requirements to also support SNPN selection using a PLMN subscription with 3GPP identifiers and credentials, as per attached CR. | Same approach as Intel, i.e. introduce a CR to clarify the requirements.  On one side, Deutsche Telekom, LGE and Ericsson propose to state that they are no requirement for Rel-17, whereas on the other side, Intel and Qualcomm propose to introduce the requirements for Rel-17.  KPN, vivo and Samsung prefer the "no requirement" in Rel-17 but has no concern to add them in Rel-18. Samsung notice that the CRs should be category B (and not F).  9 companies are in favour of Ericsson's approach when 4 companies prefer to add the requirement in Rel-17. | **Noted** |  |
| 40 | 3 | [**S1-204257**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204257.zip) | Qualcomm Incorporated | Considerations on SNPN selection for UEs with PLMN subscription | other |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |  |  | **Noted** |  |
| 41 | 3 | [**S1-204258**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204258.zip) | Qualcomm Incorporated | Requirements on SNPN selection for UEs with PLMN subscription | CR | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0320 |  | F | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |  | Delete the “-“. | **Noted** |  |
| 43 | 3 | [S1-204282](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204282.zip) | S2-2007828 | LS on credentials for SNPN service continuity | LS in |  |  |  |  |  |  |  | SA2 ask the following questions to SA1:  Q1: is there a requirement to support for access to (and related service continuity) for services provided by an SNPN separate from the serving SNPN (i.e. services provided by the SNPN that issued the UE's subscription).  If yes, then 2 more questions:  Q2: whether only PLMN credentials (and respective authentication methods) can be used to register to a target network (i.e. which may be an SNPN with or without credentials being owned by separate entities, or a PLMN), given the various service continuity scenarios.  Q3: whether in addition to PLMN credentials, also non-3GPP identities and credentials (and respective alternative authentication methods) can be used to register to a target network, given the various service continuity scenarios. | Several proposed answers, in: 4069+4068, 4146, 4189, 4215+4216+4291.  DT: no, no requirement (for the 1st question).  China Mobile: yes, there are requirements.  Intel: clarifying CR.  See discussion under 4146. | **Postponed** |  |
| 44 | 3 | [**S1-204069**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204069.zip) | Deutsche Telekom AG | Reply LS to SA2 on credentials for SNPN service continuity | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**FS\_eNS\_Ph2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850010) | Proposed answers:  A1: No, there are no requirements for access to services provided by another (e.g. home) SNPN. As such, there are no requirements for service continuity, either.  A2: Yes, only PLMN credentials can be used to register to target networks including SNPNs and PLMNs.  A3: Yes for target SNPNs only. |  | **Noted** |  |
| 45 | 3 | [**S1-204068**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204068.zip) | Deutsche Telekom AG | Discussion Paper on credentials for SNPN service continuity | discussion |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |  |  | **Noted** |  |
| 46 | 3 | [**S1-204146**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204146.zip) | China Mobile Com. Corporation | reply LS to SA2 on credentials for SNPN service continuity | LS out |  |  |  |  |  |  |  | China Mobile's proposed answers are:  A1: Yes.  A2: According to TS 22.261, clause 6.25 and 8.3, only PLMN credentials can be used to register to a PLMN. Both PLMN credential and non-3GPP identities and credentials can be used to register to a non-public network (so: "yes" in some cases).  A3: Non-3GPP identities and credentials can only be used to register to a non-public network. (so: "yes" in some cases) | This is somehow similar to Intel's approach but China Mobile still need more time to review the CR.  Rev1 presented later on during the week: the requirements that apply to question 1 are clarified.  For LG and KPN, these requirements do not deal with this concern. There is no requirement.  For Intel, there are Rel-17 requirements that apply, coming from requirements in 22.827.  Companies thinking there are no requirements for question 1 (DT approach): 8 companies  Companies thinking there are requirements for question 1 (china mobile approach): 9 companies  No agreement at this stage | **Noted** |  |
| 47 | 3 | [**S1-204189**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204189.zip) | Ericsson LM | Reply LS to SA2 on credentials for SNPN service continuity | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | A1: Based on the above requirement it shall be supported to access PLMN service via a non-public network (and vice versa) but there is no similar requirement for access to service in an SNPN separate to the serving SNPN.  A2: Only PLMN credentials can be used to register to a target network in order to achieve service continuity for a PDU session anchored in a PLMN. Non-3GPP identities and credentials can only be used for SNPNs and there is no requirement to access a SNPN via another serving SNPN (as answered for Q1) and also there is no requirement in 22.261 that enables the usage of SNPN credentials to access a PLMN network (for the scenario that UE moves from SNPN to PLMN using non-3GPP credentials). This implies that there is no scenario where non-3GPP identities can be used to register to a target network in order to achieve service continuity for a PDU session anchored in a SNPN.  A3: No (see A2). | This is very similar to Deutsche Telekom's answers and can be included in their answer. | **Noted** |  |
| 48 | 3 | [**S1-204215**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204215.zip) | Intel | Reply LS to SA2 on credentials for SNPN service continuity | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Proposed answers:  A1: Yes, service continuity shall be supported.  At this meeting, SA1 has agreed the attached CR (from Rel-16 onward) adding a new requirement on credentials for SNPN service continuity.  A2: Service continuity when UE moves between PLMN and NPN coverage shall be supported for UE with only PLMN subscription.  A3: Service continuity when UE moves between PLMN and NPN coverage shall be supported for UE with only PLMN subscription. | Qualcomm supports Intel's approach.  Futurewei supports China Mobile's approach.  For Nokia, there should be no "shall" in the LS: requirements are not done by LS.  Nokia supports Deutsche Telekom's approach.  Deutsche Telekom underline that they have the same view than Intel on the fact that there is no Rel-17 requirment. They diverge in that for Intel, the CR should be for Rel-17 whereas it should be Rel-18 for DT.  DT's view: 10 supporting companies ( DT, LGE, Vodafone, Samsung, Telefonica, LG Uplus, ERICSSON, Nokia, ETRI , KPN)  CMCC's view: 7 supporting companies (DT, Futurewei, Philips, CMCC, Qualcomm, Huawei, vivo, China Unicom)  Intel's view: 2 supporting companies (Intel, Qualcomm).  Given this result, Intel agreed not to continue with their version of the proposed reply. | **Noted** |  |
| 49 | 3 | [**S1-204216**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204216.zip) | Intel | Clarification for credentials for SNPN service continuity | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0491 |  | F | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |  |  | **Revised to S1-204291** | **S1-204291** |
| 50 | 3 | [S1-204291](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204291.zip) | Intel | Clarification for credentials for SNPN service continuity | CR | 22.261 | 0491 | 1 | F | 17.4.0 | **Rel-17** | **TEI17** | Replaces S1-204216 | Revision of S1-204216. | **Noted** |  |
| 52 | 3 | [S1-204284](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204284.zip) | S2-2007959 | LS on SNPN determination on the PLMN subscription to use for PLMN selection | LS in |  |  |  |  |  |  |  | SA2 ask SA1 whether any related requirements exist:  Q1: Assuming the UE has both subscription of one or more PLMNs and one or more SNPNs, is there a current stage 1 requirement to  - Allow an SNPN to instruct the UE to use a PLMN subscription to select a PLMN for VIAPA?  - Allow a PLMN to instruct the UE to use a SNPN subscription to select an SNPN for VIAPA?  Q2: If the answer to Q1 is yes, is the above action limited to the Home network?  Q3: If the answer to Q1 is yes, does it also involve the user to decide whether to reselect the PLMN for VIAPA service? | Proposed answers in 4143+4144, 4180, 4260  4180(r1): to state that there is no requirement  4144: China Mobile: requirement proposed by a CR  DT and KPN: this is too late to introduce a requirement at this stage in Rel-17. This can be considered for Rel-18.  For the Chair, this is not a cat F CR.  Agreed that this is too late for a CR, so 4144 is noted. | **Noted** |  |
| 53 | 3 | [**S1-204143**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204143.zip) | China Mobile Com. Corporation | reply LS to SA2 on SNPN determination on the PLMN subscription | LS out |  |  |  |  |  |  |  | Proposed China Mobile's answer:  The current stage-1 requirements do not cover this scenario. However, SA1 has agreed that the 5G system should support either the PLMN or the NPN to indicate to the UE with both PLMN and NPN subscriptions to select a different network from the one that the UE is currently registered. The corresponding requirement is added to TS 22.261 as follows:  Subject to an agreement between the operators and service providers, operator policies and the regional or national regulatory requirements, the 5G system shall support for non-public network subscribers to use PLMN subscriptions instructed by a non-public network, or to use non-public network subscriptions instructed by a PLMN for network selection. |  | **Noted** |  |
| 54 | 3 | [**S1-204144**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204144.zip) | China Mobile Com. Corporation | Addition of NPN determination on the PLMN subscription | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0485 |  | F | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**FS\_eNPN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840024) |  | Moved from 6.1 | **Noted** |  |
| 55 | 3 | [**S1-204180**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204180.zip) | Ericsson LM | Reply LS to SA2 on SNPN determination on the PLMN subscription to use for PLMN | LS out |  |  |  |  |  |  |  | A1: Yes, SA1 has a requirement that allows a PLMN to update the subscription of an authorized UE in order to allow the UE to connect to a desired NPN, which means that the PLMN can instruct the UE to use a SNPN subscription to select an SNPN, (i.e. the second bullet above).  Regarding the first bullet, SA1 do not have a Rel-17 requirement for allowing a SNPN to do a similar activity. SA1 would like to inform SA2 that is has an agreed Rel-18 TR for Localized Services that might study this scenario.  A2: The stage 1 requirement listed above is not limited to the home network.  A3: SA1 do not have a requirement for this scenario in Rel-17. |  | **Noted** |  |
| 56 | 3 | [**S1-204260**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204260.zip) | Qualcomm Incorporated | Draft LS to SA2 reply on SNPN subscription for PLMN selection | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | Proposed answers:  A1: No, there are no service requirements related to the described scenario and options. Q2 and Q3, therefore. do not apply. | For Qualcomm, neither China Mobile nor Ericsson's approach are in line with their approach.  LG and Deutsche Telekom support Qualcomm's approach. A study would be needed before any CR can be agreed. | **Revised to S1-204344** | **S1-204344** |
| 57 | 3 | [S1-204344](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204344.zip) | Qualcomm Incorporated | LS to SA2 reply on SNPN subscription for PLMN selection | LS out |  |  |  |  |  | **Rel-17** |  | Revision of S1-204260 | Revision of S1-204260. Delete word DRAFT and correct typo | **Agreed** |  |
| 59 | 3 | [S1-204325](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204325.zip) | S6-202227 | LS on Clarification on problematic UAV |  |  |  |  |  |  |  |  | Q1: From a general perspective, any UAV/UAV controller deviating from its expected operations is a problematic UAV. What is the definition of a “problematic UAV/UAV Controller” in a 3GPP context?  Q2: Are there specific use cases or examples of data needed to be exchanged between the UTM and the 3GPP system for this requirement? |  | **Postponed** |  |
| 60 | 3 | [S1-204326](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204326.zip) | Qualcomm | [DRAFT] Reply LS to SA6 (cc SA2, ACJA) on clarification on problematic UAV |  |  |  |  |  |  |  |  | QC prop answer to S1-204325:  A1: In SA1, the concept of a “problematic UAV” was intended to cover a UAV which is a UAV flying without successful authorization from UTM.  A2: Originally the use case was for an MNO to identify a UAS which may seek to operate without initial authorization from the UTM. In addition, a UAS may attempt to avoid detection from the 3GPP system and being identified as UAS-capable UE. For instance, the UAV may embed a terrestrial 3GPP UE and identify as a regular 3GPP UE (rather than a UAS-capable UE).  The 3GPP system may expose existing 3GPP system information towards the UTM via existing mechanisms such as NEF in order to help the UTM identify problematic UAV and UAV controllers. Please see clause 6.2 of TS 22.125 for further requirements.  SA1 has no requirements on the 3GPP system receiving data from the UTM in order for the 3GPP system to identify problematic UAV or UAV controllers. | Rev5 presented: Futurewei and Huawei are OK if last sentence is removed ("SA1 has no requirements on the 3GPP system receiving data from the UTM in order for the 3GPP system to identify problematic UAV or UAV controllers."). Qualcomm can accept.  For DT, this last sentence is useful.  For Samsung, the requirement should be clarified.  Way out: last sentence is removed and the requirement will be clarified by a CR at next meeting.  For DT and Interdigital, the CR should be seen first and this should be postponed to the next meeting.  For Nokia, the discussion should be postponed if the last sentence cannot be there.  Futurewei and Huawei maintain their objection. | **Noted** |  |
| 61 | 3 | [S1-204327](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204327.zip) | Samsung | [DRAFT] Reply LS to SA6 (cc SA2) on clarification on problematic UAV |  |  |  |  |  |  |  |  | Samsung prop answer to S1-204325:  A1: From 3GPP’s perspective, any UAV/UAV controller deviating from its expected operations (for the events monitored on the 3GPP system exposes to the UTM) is a problematic UAV.  In SA1, the concept of a ‘problematic UAV’ was intended to cover a UAV which is flying without successful authorization from the UTM. SA1 also studied the case of a UAV deviating from its expected Location and geo-fence. While it is possible that other conditions known to the 3GPP System could constitute problems, this can only be determined by the UTM.  A2: Originally the use case was for an MNO to identify a UAS which may seek to operate without initial authorization from the UTM. In addition, a UAS may attempt to avoid detection from the 3GPP system and be identified as a UAS-capable UE. For instance, the UAV may embed a terrestrial 3GPP UE and identify as a regular 3GPP UE (rather than a UE with a UAS-capable UE).  There may be additional information that the 3GPP System can expose that would be useful to the UTM to determine whether a given UAV operates problematically. There are general stage 1 requirements for network exposure in 22.261, 6.10.2. It is up to SA6 to determine how to expose additional information to the UTM. | For Samsung, this is stating the same as Qualcomm's answer but in fewer words.  DT, Nokia and Futurewei prefer Qualcomm's answer since it contains some history.  Interdigital prefers not to have the part on the history, which is not bringing much. So they prefer Samsung's approach.  For Huawei, none of them focus enough on the questions even though they have a preferency for Qualcomm's one.  Samsung has no objection to use the Qualcomm's one as a basis, with some clarifications to be made offline. | **Noted** |  |
| 63 | 3 | [S1-204287](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204287.zip) | SP-200888 | LS on Rel-17 schedule | LS in |  |  |  |  |  |  |  | SA acknowledges that the current Rel-17 Stage 2 freeze date (i.e. Dec 2020) is unrealistic and agrees that a shift in stage-2 freeze dates is required.  The decision on new Rel-17 Stage-2 freeze dates will be taken at SA#90-e as part of the discussion on the overall Rel-17 timeline, in coordination with RAN and CT. | See the presentation in 4301 on SA1 timeline. | **Noted** |  |
| 64 | 3 | [S1-204285](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204285.zip) | S3i200625 | Clarifications on LI requirements applicable to FS\_PALS | LS in |  |  |  |  |  |  |  | SA3-LI asks SA1 to ensure the lawful interception requirements will also apply and be met in FS\_PALS (5G Networks Providing Access to Localized Services). | Qualcomm sees this LS as premature and any potential answer should be deferred.  There is no proposed response at this point anyway.  Samsung clarified that Legal Interception is a permanent requirement that applies to everything anyway. | **Noted** |  |
| 65 | 3 | [S1-204286](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204286.zip) | SP-200877 | Reply LS on request for information from IALA | LS in |  |  |  |  |  |  |  |  | Postponed to next meeting. | **Postponed** |  |
| 66 | 3 | [S1-204289](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204289.zip) | GSMA ACJA | Support of UAVs in 3GPP system and interfacing with USS/UTM | LS in |  |  |  |  |  |  |  | GSMA informs that Aerial Connectivity Joint Activity (ACJA) is the first initiative to result from the cooperation agreement signed last year by the GSMA and the Global UTM Association (GUTMA)1. |  | **Noted** |  |
| 66 | 3 | S1-204261 | Qualcomm Incorporated | Draft LS reply on credentials for SNPN service continuity | LS out |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |  |  | **Withdrawn** |  |
| 67 | 3 | [**S1-204032**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204032.zip) | Union Inter. Chemins de Fer | LS on FRMCS Evolution | other | [**22.989**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | LS from UIC FRMCS Steering Committee to TSG SA and WG SA1 on FRMCS Evolution  SA and SA1 are asked to consider the aspects on FRMCS evolutions presented here and inform UIC if SA can perform the study as appropriate. | There is a corresponding SID presented by the UIC in 4034.  Proposed reply in S1-204294. | **Noted.** |  |
| 67r | 3 | S1-204294 | Union Inter. Chemins de Fer | LS to UIC on FRMCS Evolution |  |  |  |  |  |  |  |  | Proposed answer to S1-204032 |  | **Withdrawn** |  |
| 69 | 3 | [S1-204278](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204278.zip) | RP-202097 | Reply LS on 3GPP NR Rel-16 URLLC and IIoT performance evaluation | LS in |  |  |  |  |  |  |  |  | Noted without presentation. | **Noted** |  |
| 70 | 3 | [S1-204279](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204279.zip) | S2-2005911 | Reply LS on human-readable network name (HRNN) | LS in |  |  |  |  |  |  |  | SA2 has received the CT's LS on "human-readable network name (HRNN)" and SA1's reply.  SA2 has discussed the CT LS and agreed to let SA1 take the lead in responding to the CT1 question. SA2 will update its specifications accordingly. | Huawei clarified that SA1 already replied, by stating that "Only broadcasting is supported to Rel-16". This is also Qualcomm's and vivo's understanding that this was answered already. | **Noted** |  |
| 71 | 3 | [S1-204283](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204283.zip) | S2-2007880 | LS on Use of Survival Time for Deterministic Applications in 5GS | LS in |  |  |  |  |  |  |  |  | Noted without presentation. | **Noted** |  |
| 72 | 3 | [S1-204288](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204288.zip) | GSMA 5GJA14\_121 | LS response to TCCA on Public Safety | LS in |  |  |  |  |  |  |  |  | Noted without presentation. | **Noted** |  |
| 02 | 4 | [**S1-204033**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204033.zip) | Union Inter. Chemins de Fer | Motivation for Rel-18 SID proposal: study on FRMCS Evolution | discussion |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Motivations for the SID in 4034. |  | **Noted** |  |
| 03 | 4 | [**S1-204034**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204034.zip) | Union Inter. Chemins de Fer | Study on FRMCS Evolution (FS\_eFRMCS) | SID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | The objectives of this study are:  - to refine existing use cases coming from a gap analysis between the newly released set of FRMCS specifications and latest version of TR 22.989.  - To identify new use cases coming from a gap analysis between the newly released set of FRMCS specifications and latest version of TR 22.989.  - to derive new potential requirements to stage 1 TS (e.g. 5GS, MCX) | Nokia support the idea but has concerns on the quantity of work that might be needed for new use cases. The essential parts should be distinguished from the secondary ones. UIC agree that it might be appropriate to distinguish the essential part from what could be moved to Rel-19.  Qualcomm support this view.  It would be covered by updating TR 22.989. 4034r3 presented: UIC explained that there might or might not be a (normative) WID after the completion of this study.  Agreed + list of supporting companies to be updated. | **Revised** | **S1-204383** |
| 03r | 4 | S1-204383 | Union Inter. Chemins de Fer | Study on FRMCS Evolution (FS\_eFRMCS) | SID new |  |  |  |  |  | **Rel-18** |  | Replaces S1-204034 |  | Agreed. |  |
| 04 | 4 | [**S1-204112**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204112.zip) | China Mobile Com. Corporation, Xiaomi | DP on tactile and multi-modality communication services in 5GS | discussion |  |  |  |  |  |  |  | Motivations for the SID in 4114. |  | **Noted** |  |
| 05 | 4 | [**S1-204114**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204114.zip) | China Mobile Com. Corporation, Xiaomi | Study on supporting tactile and multi-modality communication services in 5GS (FS\_TMMin5GS) | SID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | The objective of this study item is to investigate new use cases and service requirements for 5G system to support tactile and multi-modality communication services. | A previous version was presented at the previous meeting.  For Nokia, there is no need to go through a study phase. E.g. the KPIs can be defined directly.  China Mobile clarified that the SID is not just for KPIs.  The use case 2 on slide 4 of 4112 needs further clarifications, in Sony's view, since nothing seems to be new, as it is presented. This will be further explained in the thread.  Huawei support the WID and all the "tactile internet" aspects.  4114r2: agreed | **Revised** | **S1-204384** |
| 05r | 4 | S1-204384 | China Mobile Com. Corporation, Xiaomi | Study on supporting tactile and multi-modality communication services in 5GS (FS\_TMMin5GS) | SID new |  |  |  |  |  | **Rel-18** |  | Replaces S1-204114 |  | Agreed. |  |
| 06 | 4 | [**S1-204140**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204140.zip) | LG Electronics, LG Uplus, Korea Railroad Research Institute (KRRI), SK Telecom, KT, Sharp, Hansung University, OPPO, Tencent, Kontron Transportation France, CATT, Verizon UK Ltd, Institute for Information Industry (III), Spreadtrum, China Unicom, Qualcomm, Futurewei | Study on 5G System Support for Service-Oriented Robots with Human Interactions (FS\_SOBOT) | SID new |  |  |  |  |  |  |  | The objective of this study is to identify use cases and the related potential service and performance requirements for 5G system to support communications of service-oriented robots with human interactions. | This is also a revised version compared to previous meeting.  For Samsung, this is very abstract and should be more focussed on concrete problems. E.g. they do not see any robots' experts involved in this proposed work.  For Nokia, it is still not clear why the existing requirements, e.g. the ones on IoT, V2X, are not good enough to support these scenarios. This might be all application-layer problems, which 3GPP do not address. As it is, there is no area for new specific requirements.  LG clarified that an analogy could be made with eCall: this is not only an application-layer problem. E.g. a communication failure (i.e. at the transport layer) might have major implications.  LG propose a conference call to specifically address this issue.  For Qualcomm, an association with the specialised industry would be very beneficial, as made in the past for specific topics.  LG clarified that LG themselves are involved in the robots industry.  Rev3: LG ask Nokia to remove their concern so that the SID can progress. For Nokia, Sony, Novamint, it is still missing which requirements are lacking. Nokia say that 3GPP is opened to robot-specialist to come, just like for other verticals. For Samsung, this SID still uses very abstract terms. Samsung and Qualcomm do not object, but this is not clear to them.  LG propose to have off-line calls on this specific topic before next meeting. For Nokia, this would be useful if the corresponding verticals representative are joining. | **Noted** |  |
| 07 | 4 | S1-204295 | LGE | Some examples for time bounded communication for FS\_SOBOT |  |  |  |  |  |  |  |  |  |  | **Noted** |  |
| 08 | 4 | [**S1-204141**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204141.zip) | LG Electronics Inc. | DP: References and Definitions regarding Robots and their operations | discussion |  |  |  |  |  |  |  | Motivations for the SID in 4140. |  | **Noted** |  |
| 09 | 4 | [**S1-204182**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204182.zip) | NTT DOCOMO | New WID on Study on Guidelines for Communication in Space | SID new |  |  |  |  |  |  |  | The objectives of this study are to identify deployment models, including those where satellite communication is involved. | Discussed entirely by e-mail. DoCoMo has no issue to postpone this Study and following ones to a future Release. | **Noted** |  |
| 10 | 4 | [**S1-204183**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204183.zip) | NTT DOCOMO | New WID on Study on Sustainable development via cyber physical system | SID new |  |  |  |  |  |  |  | The objectives of this study are to identify use cases relevant to CPS (Cyber Physical System) and city OS (i.e. city operating system) to the society as a whole. | Discussed entirely by e-mail. | **Noted** |  |
| 11 | 4 | [**S1-204184**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204184.zip) | NTT DOCOMO | New WID on Study on Cybernetic avatar | SID new |  |  |  |  |  |  |  | The objectives of this study are to identify use cases relevant to cybernetic avatar. | Discussed entirely by e-mail. | **Noted** |  |
| 12 | 4 | [**S1-204171**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204171.zip) | China Unicom | Discussion on Enhancing 5G System with NTN | discussion |  |  |  |  |  |  |  | Motivations for the SID in 4167. |  | **Noted** |  |
| 13 | 4 | [**S1-204167**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204167.zip) | China Unicom | Study on enhancing 5G system with Non-terrestrial Network (NTN) | SID new |  |  |  |  |  |  |  | The aim of this work is to identify and to study new use cases and KPI to support 5G enhanced with NTN components (e.g. satellite GEO, LEO, with or without inter satellite links, HAPS, etc.) | Timelines are missing.  4167r9: new title: 5G system with High Altitude Platform Station (HAPS) (FS\_5GHAPS): this is now a normative WID.  Acronym should not start with "FS\_" and "5G" is useless.  For Qualcomm, this is a brand new WID.  For LG, this is not clear what is missing in current system, and there is no rush: this can be proposed at next meeting directly with the CR.  For Sony, "potential requirements" should be changed to "requirements" since this is a WID now.  To be brought again next time taking into account these comments and with the corresponding CR. | **Noted** |  |
| 14 | 4 | [**S1-204271**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204271.zip) | Hansung University | SID\_FS\_RAILSS update | SID revised |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_RAILSS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850044) | Update work schedule of FS\_RAILSS | Only the date is proposed to be changed (no rev needed for this) but UIC might need to bring other changes (add 22.989 in the list)  4271r2 agreed. | **Revised** | **S1-204385** |
| 14r | 4 | S1-204385 | Hansung University | SID\_FS\_RAILSS update | SID revised |  |  |  |  |  | **Rel-18** | **FS\_RAILSS** | Replaces S1-204271 |  | Agreed. |  |
| 17 | 4 | [**S1-204042**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204042.zip) | China Unicom | WID-Usage and Accounting Information requirements for Shared E-UTRANNG-RAN | WID new |  |  |  |  |  |  |  |  |  | **Revised to S1-204293** | **S1-204293** |
| 18 | 4 | [S1-204293](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204293.zip) | China Unicom | WID-Usage and Accounting Information requirements for Shared E-UTRANNG-RAN | WID new |  |  |  |  |  |  |  | Replaces S1-204042.  Replaced by a "TEI17" CR. | Revision of S1-204042. | **Noted** |  |
| 19 | 4 | [**S1-204041**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204041.zip) | China Unicom | CR-Usage and Accounting Information requirements for Shared E-UTRANNG-RAN | WID new |  |  |  |  |  |  |  |  |  | **Revised to S1-204292** | **S1-204292** |
| 20 | 4 | [S1-204292](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204292.zip) | China Unicom | CR-Usage and Accounting Information requirements for Shared E-UTRANNG-RAN | CR | 22.101 |  |  |  | 17.3.0 | **Rel-17** | **TEI17** | Replaces S1-204041  Rev1 presented.  This CR adds radio resource usage and accounting information for each Participating Operator. | Category C CR (and cat B and new WIDs) are too late for Rel-17.  For LG, this is already covered elsewhere and is not needed.  Nokia second this and think it is SA5 matter.  It was further attempted to be edited during the online session to address "radio resource" | **Noted** |  |
| 21 | 4 | [**S1-204040**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204040.zip) | China Unicom | Discussion on Usage and Accounting Information requirements for Shared E-UTRANNG-RAN | Discussion |  |  |  |  |  |  |  | Discussion paper on the WID in 4293. |  | **Noted** |  |
| 23 | 4 | [**S1-204044**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204044.zip) | China Unicom | New WID on Inner Trustiness | WID new |  |  |  |  |  |  |  | The objective of this work is to specify requirements on Inner Trustiness for IoT UEs, in particular for the following aspects.  - End-to-end data trustiness of specific services of legitimate connected UE,  - data tamper proof and traceability in a period of time,  - verify the data trustiness by APIs. | See corresponding CR in 4043.  It is not a study (since it proposes a CR to normative text) and should not have it in its tille.  The name should be aligned to the one in the CR.  4044r4: For DT and Nokia, it is better to postpone the WID until the CR is agreed  KPN clarified that there is no rule to link the approval of the CR to the approval of the WID, but if this is the general feeling, the WID can also wait until the CR is agreeable.  For Novamint, this is 2 separate steps.  No objection (nor comment) during the approval day but the related CR did receive objection. For matter of efficiency and as to save meeting time, China Unicom agrees to present the WID together with the CR at next meeting. | **Noted** |  |
| 24 | 4 | [**S1-204043**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204043.zip) | China Unicom | CR of Addition of requirements on Inner Trustiness | CR | **22.261** | 0492 |  | B | 18.0.0 | **Rel-18** | **DUMMY** | Rev1 presented.  This CR adds the requirements on Inner Trustiness. | From the WID in 4044.  In rev1, "Inner Trustiness" is changed to "Data Integrity in 5GS".  It is clarified that the CR adds the requirements on Data Integrity between the 5GS and 3rd party AFs into the 5GS.  The rev1 is seen as a clear improvement but can be firther improved.  Samsung pointed out at S1-204198 - a FS\_5GSEI use case, which essentially suggests security the 5GS and AF (over N6). This explains the concept (though my proposal is broader.)  4043r6: good progress but still not agreeable: no editor's note should be added in a CR. | **Noted** |  |
| 25 | 4 | [**S1-204045**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204045.zip) | China Unicom | Disscussion paper of Addition of requirements on Inner Trustiness Network Function | discussion |  |  |  |  |  |  |  | Presentation for the WID in 4044. |  | **Noted** |  |
| 27 | 4 | [**S1-204056**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204056.zip) | vivo Mobile Com. (Chongqing), Apple, Ericsson | New WID on Mobile Indication for Network Information Of NPNs (MINION) | WID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | The objective of this work item is to define requirements related to the display of Network information in an NPN (Non-Public Networks) on the UE e.g. when selecting an NPN using a manual mechanism and also when Network information in NPN is displayed in automatic mode. | For Qualcomm, the objectives should be clarified, e.g. the needs for NPN have to be clarified, is it for manual or also for automatic selection? etc.  For Orange, the WID should not cover the roaming scenarios. For Deutsche Telekom also, roaming scenarios were not meant to be supported in this context.  Qualcomm also propose to have it removed from the WID.  For Nokia, this triggers wider questions on "NPN" such as: are their names going to be broadcasted? Is it something to be stored in the UEs? For Ericsson, it can be stored without the name to be broadcasted.  Still no agreement on the last day. | **Noted** |  |
| 28 | 4 | [**S1-204191**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204191.zip) | Ericsson, Vivo Mobile Communications Co. LTD, Apple | Storing the human-readable network name in the UE | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0490 |  | B | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | The human-readable network name for an NPN can be stored in the UE, and the stored human-readable network name is presented to the user in manual selection when the human-readable network name is not broadcast for the same NPN. | S1-204194r3 provided for approval day  TO OPEN | **Noted** |  |
| 29 | 4 | [**S1-204160**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204160.zip) | Apple | CR to 22.042 on Human-Readable Network Name for NPN via NITZ | CR | [**22.042**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=576) | 0006 | 1 | B | 16.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | The existing mechanism Network Identity and Timezone (NITZ) can provide the PLMN name to UEs. It is proposed to extend NITZ to also provide the NPN name to UEs. | R1  S1-204160r1 provided for approval day | **Noted** |  |
| 31 | 4 | [**S1-204123**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204123.zip) | Intel Corporation, Deutsche Telekom AG, Tencent, Affirmed Network, AT&T, Sandvine, Convida Wireless, InterDigital, KPN, Verizon UK Ltd., KDDI, Vodafone, Telecom Italia, Cisco, b<>com, Spirent Communications, Matrixx | Work Item on Support for Service Function Chaining in 5G System | WID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | It proposes to support SFC in 5G system.  The rev3 was presented.  This work item is to specify service requirements for enhancing service function chaining in 5G system by network operators to third parties, sucha s allowing:  - authorized third parties to request utilisation of specific service functions and a chain of service functions in 5G system for their applications.  - service function provided in the 5G network including Service Hosting Environment. | Nokia propose to see directly the CRs proposed below, since the intention of the WID is just to introduce the CRs.  S1-204123r6: no objection | **Revised** | **S1-204386** |
| 31r | 4 | S1-204386 | Intel Corporation, Deutsche Telekom AG, Tencent, Affirmed Network, AT&T, Sandvine, Convida Wireless, InterDigital, KPN, Verizon UK Ltd., KDDI, Vodafone, Telecom Italia, Cisco, b<>com, Spirent Communications, Matrixx | Work Item on Support for Service Function Chaining in 5G Network | WID new |  |  |  |  |  | **Rel-18** |  | Replaces S1-204123 |  | Agreed. |  |
| 32 | 4 | [**S1-204124**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204124.zip) | Intel, Deutsche Telekom AG, Convida Wireless, KDDI, Matrixx | Service requirements for enabling SFC service support | CR | [**22.101**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 0570 |  | B | 17.2.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | enabling service support of service function chaining in the 5G network.  Rev1 presented.  As per the WID in 4123, this CR proposes to add reference to TS22.261 for enabling service support of service function chaining in 5G network. | S1-204124r3: clause affected and cover page to be cleaned up | **Revised** | **S1-204387** |
| 32r | 4 | S1-204387 | Intel, Deutsche Telekom AG, Convida Wireless, KDDI, Matrixx | Service requirements for enabling SFC service support | CR | 22.101 | 0570 | 1 | B | 17.2.0 | **Rel-18** | **DUMMY** | Replaces S1-204124 |  | Agreed. |  |
| 33 | 4 | [**S1-204125**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204125.zip) | Intel, Deutsche Telekom AG, Convida Wireless, KDDI, Matrixx | Service requirements for enabling service function chaining support in 5GS | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0478 |  | B | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | Service requirements for enabling service function chaining support in 5GS.  Rev2 presented. | This is also the impact of the WID in 4123.  Yellow highlights are the latest changes.  4125r5: still no agreement, Nokia cannot agree still some comments were not included. The disagreement is on the words "in the operator network " in the first line of the 2nd paragraph of X.1. Ericson supports this  Acronym is not correct.  For Qualcomm, there is also no rush and it would be fine to see the actual change rather than rushing on the last day. This can be submitted as a company's contribution to TSG SA.  For Ericsson, the CRs are cross-referencing each other, so not agreeing one of them might lead to problems.  Since Nokia is the only objecting company, this is agreed with one objection.  Agreed with following chages on the cover page:  Reason for change:  Enhancing service function chainging in 5G network [delete: network to address objectives in agreed WID in S1-204123].  Summary of change: [delete: Based on the objectives of this WID, ] this CR proposes to add the following aspects for service requriements:  And change over change to be removed. | **Revised** | **S1-204388** |
| 33r | 4 | S1-204388 | Intel, Deutsche Telekom AG, Convida Wireless, KDDI, Matrixx | Service requirements for enabling service function chaining support in 5GS | CR | 22.261 | 0478 | 1 | B | 18.0.0 | **Rel-18** | **DUMMY** | Replaces S1-204125 |  | Agreed. |  |
| 34 | 4 | [**S1-204126**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204126.zip) | Intel, Deutsche Telekom AG, Convida Wireless, KDDI, Matrixx | Charging Service requirements for enabling SFC service support | CR | [**22.115**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=608) | 0105 |  | B | 17.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | address charging aspects for SFC service in 5GS | Also due to the WID in 4123.  S1-204126r2 provided for approval day:  Agreed with following change: Charging for Flexible Mobile Service Steering The 3GPP core network shall be able to generate charging information to support accounting between operator and the third party service provider when operators use traffic steering policies to steer traffic to appropriate | **Revised** | **S1-204389** |
| 34r | 4 | S1-204389 | Intel, Deutsche Telekom AG, Convida Wireless, KDDI, Matrixx | Charging Service requirements for enabling SFC service support | CR | 22.115 | 0105 | 1 | B | 17.0.0 | **Rel-18** | **DUMMY** | Replaces S1-204126 |  | Agreed. |  |
| 36 | 4 | [**S1-204134**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204134.zip) | Xiaomi | New WID on 5G system with satellite access by considering NF on Satellite and ISL | WID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Rev1 presented.  This work item is to update delay requirements on satellite access to specify:  - UE to 5GC delay requirements when all or some of the 5GC components and the application server are deployed on the satellite  - UE to 5GC delay requirements when ISL is used | Covered by the two following CRs :4135 and 4136.  The acronym is too similar to an existing one.  S1-204134r1 provided for approval day  TO OPEN S1-204134r2 (o: Qualcomm, LG) | **Noted** |  |
| 37 | 4 | [**S1-204135**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204135.zip) | Xiaomi | Update to KPIs for a 5G system with satellite access in the case gNB and CN components are on the satellite | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0483 |  | F | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  | Consistency has to be made between the CR and the WID on the impacted parts of the system.  "DUMMY" should not be used.  KPN has doubt about the interest of having a dedicated column for this new parameter.  S1-204135r2 provided for approval day  TO OPEN  4135r4: still no agreement, in particular by Thales on the Note. | **Noted** |  |
| 38 | 4 | [**S1-204136**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204136.zip) | Xiaomi | Update to KPIs for a 5G system with satellite access in the case Inter Satellite Links are used | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0484 |  | F | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  | Nokia think it should be one single CR. The value added by this note is questionable for Nokia and Thales.  If any, it should be inside the table.  "System Impacts" should be updated.  It is agreed to merge the 2 CRs into one.  S1-204136r1 provided for approval day  TO OPEN | **Noted** |  |
| 40 | 4 | [**S1-204163**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204163.zip) | CATT, China Telecom | New WID on enhancing 5G system with satellite backhaul | WID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | The objectives of this WID is to specify requirements e.g. the requirements on QoS control, requirements for policy management and charging on using non-terrestrial components (e.g. satellite GEO, LEO, with or without inter satellite links, HPS,etc.) as transport/backhaul in 5G system | "Enhancing" is misleading because this is the first time this Feature is introduced (it is not an enhancement of a previously-introduced Feature).  S1-204163r4 provided for approval day  TO OPEN (o: LG): several delegates prefer to have the WID handled at the same time as the CR. | **Noted** |  |
| 41 | 4 | [**S1-204161**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204161.zip) | CATT | Discussion on satellite backhaul | discussion |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | This contribution proposes to analyse the requirements brought by satellite backhaul |  | **Noted** |  |
| 42 | 4 | [**S1-204164**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204164.zip) | CATT, China Telecom | Requirements for satellite backhaul | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0486 |  | B | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | These are the changes due to the new WID in 4163. | The "Rev" counter shall not be incremented for the (unofficial) tdoc rev. It has to be increased only each time the tdoc get a new tdoc number.  About "Fixed or moving RAN node": Thales pointed out that this is a wider problem thank just for this WID.  There are multiple other comments to be raised by e-mail.  4164r7: editor's note cannot be introduced in a stable TS. Qualcomm has issues with this wording: it is not clear it applies to satellite systems. | **Noted** |  |
| 44 | 4 | [**S1-204168**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204168.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | New WID on Energy Efficient High Precision Positioning for industrial IoT scenarios | WID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Rev3 presented.  The objective of this work item is to specify requirements on energy efficient high positioning service for industrial IoT scenarios, in particular to add the energy efficient related requirement, including battery lifetime, positioning accuracy, and positioning interval. | S1-204168r5 provided for approval day  S1-204168r6 (o: Nokia, Sony) opened: for Sony, there is a need, but it is not clear what the set of inputs will be.  Several companies think that there is work needed in the area of this WID. This is going to be progressed between now and next meeting.  Companies see the need for SA1 to address this area. Chairman suggests Huawei takes the lead to organize an offline conference between now and next meeting to seek for compromise and make a way forward to finalize a WID or SID on this area. | **Noted** |  |
| 45 | 4 | [**S1-204166**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204166.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | Discussion paper on Energy Efficient High Precision Positioning for industrial IoT | discussion |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Supporting paper for the WID in 4168. |  | **Noted** |  |
| 46 | 4 | [**S1-204169**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204169.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | CR on adding energy efficiency related requirements for industrial IoT positioning scenarios | CR | [**22.104**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 0060 |  | B | 17.4.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) | The CR adds energy efficiency related requirements for industrial IoT positioning scenarios | For Sony, all the values presented in the new proposed section "Energy efficiency requirements for industrial IoT positioning" are assumptions not based on clear requirements. This might be as well taken by RAN1.  For Novamint, some requirements do have to be defined in SA1.  Discussion to be continued by e-mail.  S1-204169r7 provided for approval day  TO OPEN S1-204169r8 (o: Nokia, Sony): still objections on the last day. | **Noted** |  |
| 48 | 4 | [**S1-204178**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204178.zip) | Apple | New WID on User Privacy Consideration for Network Slicing | WID new |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | The objective of this work item is to clarify that user privacy is taken into consideration when configuration information is shared between the UE and network. | Lot of comments received by e-mails, that will be taken into account for a ne proposal by the next meeting. | **Noted** |  |
| 49 | 4 | [**S1-204177**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204177.zip) | Apple, KDDI | User Privacy Consideration for Network Slicing\_x00B\_ | discussion |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |  |  | **Noted** |  |
| 50 | 4 | [**S1-204179**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204179.zip) | Apple, KDDI | CR to 22.261 on Consideration of user privacy with network slicing | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0487 |  | B | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**DUMMY**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |  |  | **Noted** |  |
| 52 | 4 | [**S1-204249**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204249.zip) | Qualcomm Incorporated | New WID: PWS support for NPN | WID new |  |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  | The objective of this study is to define new service requirements for support of PWS in Non Public Networks, covering  - UE and Network requirements  - aspects related or depending on regulatory requirements | It is clarified that this is to respond to regulatory requirement, hence a Rel-17 (very) late WID and corresponding CR is proposed. More precisely, this is regulation only for the Netherlands at this stage.  There is still the intention to have this progressed in between meetings. The SA1 chair will lead the discussions. | **Noted** |  |
| 53 | 4 | [**S1-204078**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204078.zip) | Nokia, Nokia Shanghai Bell, KPN, vivo, one2many, Thales | Non public network support for PWS | CR | [**22.268**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=639) | 0067 |  | B | 16.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) | The CR adds that "Subject to local/regional regulations, the 5G system shall support PWS over non-public networks." | Another CR to 22.261 is to be provided.  Huawei propose to clarify that this requirement applies only to stand-alone NPN.  Also Stage 2 and 3 corresponding CRs should be provided, as pointed out by Interdigital. It was clarified that the Stage 2 is handled by CT1 for this item.  To be continued by e-mail. | **Noted** |  |
| 01 | 5 | [**S1-204132**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204132.zip) | China Telecom | Quality improvement of TS 22.261 | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0481 |  | D | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**SMARTER\_Ph2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | Wrong WI Code  Moved from 9 | **Revised to S1-204303** |  |
| 02 | 5 | S1-204303 | China Telecom | Quality improvement of TS 22.261 | CR | 22.261 | 0481 | 1 | D | 17.4.0 | **Rel-17** | **SMARTER\_Ph2** | Revision of S1-204132. | Same as 4132r3. | **Agreed** |  |
| 03 | 5 | [**S1-204133**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204133.zip) | China Telecom | Quality improvement of TS 22.261 | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0482 |  | F | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SMARTER\_Ph2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) |  | Wrong WI Code. Should be Cat A?  Moved from 9 | **Revised to S1-204304** |  |
| 04 | 5 | S1-204304 | China Telecom | Quality improvement of TS 22.261 | CR | 22.261 | 0482 | 1 | F | 18.0.0 | **Rel-18** | **SMARTER\_Ph2Revision of S1-204133** | Revision of S1-204133 | Revision of S1-204133. Same as 4133r3 | **Agreed** |  |
| 01 | 6.1 | [**S1-204039**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204039.zip) | BDBOS, Nokia | Add definition for “MCX Service System” to clause 3.1 | CR | [**22.280**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 0142 |  | F | 17.3.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |  | Moved from 6.1 | **Noted.** |  |
| 02 | 6.1 | [**S1-204077**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204077.zip) | Perspecta Labs Inc. | Editorial Cleanup of MPS Phase 2 Additions | CR | [**22.153**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) | 0047 |  | D | 17.1.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**MPS2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840032) | This CR fixes editorial errors introduced in TS 22.153 v17.1.0 |  | **Agreed** |  |
| 03 | 6.1 | [**S1-204082**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204082.zip) | Perspecta Labs Inc. | Alignment of descriptive text with associated requirement for MPS invocation from a non-subscribed UE | CR | [**22.153**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) | 0048 |  | F | 17.1.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**MPS2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840032) | This CR alignments the descriptive text in clauses 9.1.2.1 and 9.2.2.1 with the associated requirements for MPS invocation from a non-subscribed UE. |  | **Revised to S1-204305** |  |
| 04 | 6.1 | S1-204305 | Perspecta Labs | Alignment of descriptive text with associated requirement for MPS invocation from a non-subscribed UE | CR | 22.153 | 0048 | 1 | F | 17.1.0 | **Rel-17** | **MPS2Revision of S1-204082** |  | Revision of S1-204082. Same as 4082r1 | **Agreed** |  |
| 05 | 6.1 | [**S1-204115**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204115.zip) | China Mobile Com. Corporation | Modify requirement to support enhancement for deterministic transport services | CR | [**22.104**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 0059 |  | F | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**eCAV**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840041) |  |  | **Noted** |  |
| 06 | 6.1 | [**S1-204137**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204137.zip) | China Mobile Com. Corporation | Support deterministic transport services in VIAPA | CR | [**22.263**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3648) | 0011 |  | F | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**AVPROD**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840031) |  |  | **Noted** |  |
| 07 | 6.1 | [**S1-204130**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204130.zip) | China Telecom | Correction of Access Identities Table in clause 6.22.2.2 | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0479 |  | F | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**SMARTER\_Ph2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) | In Table 6.22.2.2-1 of TS 22.261, access identity 3 has been used. Therefore, the access Identities reserved for future use should be ‘4-10’ not ‘3-10’. | WI-code? | **Revised to S1-204306** |  |
| 08 | 6.1 | S1-204306 | China Telecom | Correction of Access Identities Table in clause 6.22.2.2 | CR | 22.261 | 0479 | 1 | F | 17.4.0 | **Rel-17** | **SMARTER\_Ph2** | Revision of S1-204130 | Revision of S1-204130 where WICode will be change to TEI17 and revision counter will be upgraded to 1. | **Agreed** |  |
| 09 | 6.1 | [**S1-204131**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204131.zip) | China Telecom | Correction of Access Identities Table in clause 6.22.2.2 | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0480 |  | F | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**SMARTER\_Ph2**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=790001) | In Table 6.22.2.2-1 of TS 22.261, access identity 3 has been used. Therefore, the access Identities reserved for future use should be ‘4-10’ not ‘3-10’. | Why not Rel-17 and mirror? WI-code? | **Revised to S1-204307** |  |
| 10 | 6.1 | S1-204307 | China Telecom | Correction of Access Identities Table in clause 6.22.2.2 | CR | 22.261 | 0480 | 1 | F | 18.0.0 | **Rel-18** | **SMARTER\_Ph2** | Revision of S1-204131 | Revision of S1-204131 where WICode will be change to TEI17, category should be A and revision counter will be upgraded to 1. | **Agreed** |  |
| 11 | 6.1 | [**S1-204192**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204192.zip) | Ericsson | Update and clarification of UE reconnection time | CR | [**22.263**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3648) | 0012 |  | F | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**AVPROD**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840031) | The reconnection time after a UE network connection loss is changed from 20 ms to “short period of time (<1s)” and is calculated from the time the UE detects the loss. |  | **Agreed** |  |
| 12 | 6.1 | [**S1-204225**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204225.zip) | BDBOS, FirstNet, Police of the Netherlands | Enhancement to MCX User request queue operation | CR | [**22.280**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 0143 |  | B | 17.3.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |  |  | **Revised to S1-204308** |  |
| 13 | 6.1 | S1-204308 | BDBOS, FirstNet, Police of the Netherlands | Enhancement to MCX User request queue operation | CR | 22.280 | 0143 | 1 | B | 17.3.0 | **Rel-17** | **TEI17** | Revision of S1-204225 | Revision of S1-204225. Same as S1-204225r1. | **Agreed** |  |
| 14 | 6.1 | [**S1-204273**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204273.zip) | LG Electronics France | R17 CR to TS22.011 Requirement Alignment related to PLMN reselection | CR | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 0321 |  | F | 17.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |  | No track changes on cover page. | **Revised to S1-204309** |  |
| 15 | 6.1 | S1-204309 | LG Electronics | R17 CR to TS22.011 Requirement Alignment related to PLMN reselection | CR | 22.011 | 0321 | 1 | F | 17.2.0 | **Rel-17** | **TEI17** | Revision of S1-204273 | Revision of S1-204273 where the cover page will have no track changes. | **Agreed** |  |
| 16 | 6.1 | [**S1-204055**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204055.zip) | Nokia, Nokia Shanghai Bell | Clarification of “High accuracy positioning” power consumption requirement | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0475 |  | D | 17.4.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) | The power consumption requirement in 22.261 7.3.2.3 “Other performance requirements” is well beyond the scope of 3GPP, for example, 3GPP does not know the semiconductor technology that might be used in the chipset which is by far the most influential parameter for power consumption. Thus this requirement 3GPP cannot fulfill on their own. Furthermore, this requirement has already prompted attempts to add different ones, which SA1, amongst others, rejected for the above given reasons. The CR addresses this quality issue | Moved from 8 | **Noted** |  |
| 17 | 6.1 | [**S1-204076**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204076.zip) | Nokia, Nokia Shanghai Bell | Quality improvement: Clarification of “High accuracy positioning” power consumption requirement | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0476 |  | A | 18.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**TEI17**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) | The power consumption requirement in 22.261 7.3.2.3 “Other performance requirements” is well beyond the scope of 3GPP, for example, 3GPP does not know the semiconductor technology that might be used in the chipset which is by far the most influential parameter for power consumption. Thus this requirement 3GPP cannot fulfill on their own. Furthermore, this requirement has already prompted attempts to add different ones, which SA1, amongst others, rejected for the above given reasons. The CR addresses this quality issue | Moved from 8 | **Noted** |  |
| 01 | 6.2 | [**S1-204024**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204024.zip) | LG Electronics Inc. | R16 CR to TS22.278 Relay Alignment | other | [**22.278**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=641) |  |  |  |  | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) |  |  | Moved from 7.13  Revised into 20472  No track changes on cover page. | **Revised to S1-204272** |  |
| 02 | 6.2 | [**S1-204272**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204272.zip) | LG Electronics Inc., Huawei | R16 CR to TS22.278 Relay Alignment | CR | [**22.278**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=641) | 0281 |  | F | 16.2.0 | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**REAR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=780019) | CR0279R2 | Moved from 7.13  Revised into 20472  No track changes on cover page.  Revision of S1-204024. | **Noted** |  |
| 03 | 7.1.1 | [**S1-204116**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204116.zip) | China Mobile Com. Corporation | FS\_MMTELin5G Add requirements to use case on Conference call with AR holography | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) |  | S1-204116r7 provided for approval day | **Revised** | **S1-204390** |
| 03r | 7.1.1 | S1-204390 | China Mobile Com. Corporation | FS\_MMTELin5G Add requirements to use case on Conference call with AR holography | pCR | 22.873 |  |  |  | 0.3.0 | **Rel-18** | **FS\_MMTELin5G** | Replaces S1-204116 |  | Agreed. |  |
| 05 | 7.1.1 | [**S1-204117**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204117.zip) | China Mobile Com. Corporation | FS\_MMTELin5G Use case on AR call | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) | Rev4 approved | S1-204117r3 provided for approval day  S1-204117r4 agreed | **Revised** | **S1-204391** |
| 05r | 7.1.1 | S1-204391 | China Mobile Com. Corporation | FS\_MMTELin5G Use case on AR call | pCR | 22.873 |  |  |  | 0.3.0 | **Rel-18** | **FS\_MMTELin5G** | Replaces S1-204117 |  | Agreed. |  |
| 06 | 7.1.1 | [**S1-204207**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204207.zip) | Huawei Technologies R&D UK | Use case on Multimedia CLIP and COLP | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) |  | S1-204207r3 provided for approval day | **Noted** |  |
| 07 | 7.1.1 | [**S1-204208**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204208.zip) | Huawei Technologies R&D UK | Use case on real-time visual interactive menu during a call | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) |  | S1-204208r3 provided for approval day | **Noted** |  |
| 08 | 7.1.1 | [**S1-204209**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204209.zip) | Huawei Technologies R&D UK | Use case on real-time screen sharing during a call | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) |  | S1-204209r2 Agreed | **Revised** | **S1-204392** |
| 08r | 7.1.1 | S1-204392 | Huawei Technologies R&D UK | Use case on real-time screen sharing during a call | pCR | 22.873 |  |  |  | 0.3.0 | **Rel-18** | **FS\_MMTELin5G** | Replaces S1-204209 |  | Agreed. |  |
| 10 | 7.1.1 | [**S1-204118**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204118.zip) | China Mobile Com. Corporation | FS\_MMTELin5G Consolidated potential requirements | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) |  |  | **Noted** |  |
| 11 | 7.1.1 | S1-204119 | China Mobile Com. Corporation | FS\_MMTELin5G TR Overview | pCR | [**22.873**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3697) |  |  |  | 0.3.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_MMTELin5G**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850042) |  | Late Document | **Withdrawn** |  |
| 01 | 7.1.2 | S1-204350 | Rapporteur (China Mobile) | TR22.873 v.0.4.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | **For e-mail submission** |  |
| 02 | 7.3.1 | [**S1-204262**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204262.zip) | Hansung University | Emergency use case of smart station - fire in station | pCR | [**22.890**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3699) |  |  |  | 0.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**FS\_RAILSS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850044) | Propose use case and potential requirements on an fire emergency situation of the railway smart station | S1-204262r3 opened: rev on rev to be removed. Qualcomm prefer to leave the requirements as "FFS" at this stage. Or at least an editor's note to state that they need to be further discussed.  S1-204262r3 agreed with editor's note. | **Revised** | **S1-204393** |
| 02r | 7.3.1 | S1-204393 | Hansung University | Emergency use case of smart station - fire in station | pCR | 22.890 |  |  |  | 0.2.0 | **Rel-17** | **FS\_RAILSS** | Replaces S1-204262 |  | Agreed. |  |
| 03 | 7.3.1 | S1-204270 | Hansung University | Use cases of smart station in FRMCS | pCR | [**22.890**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3699) |  |  |  | 0.2.0 | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**FS\_RAILSS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850044) | This contribution proposes use cases comes from FRMCS. | Not available as of Nov 12th | **Noted** |  |
| 01 | 7.3.2 | S1-204351 | Rapporteur (Hansung University) | TR22.890 v.0.3.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.4.1 | [**S1-204009**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204009.zip) | InterDigital, OPPO | FS\_AMMT – Including device-to-device aspects in the use case for Split Image Recognition | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204009r4 provided for approval day  S1-204009r5 (o:Nokia, DT) opened  Still objections on last day: use cases are not "convincing". | **Noted.** |  |
| 04 | 7.4.1 | [**S1-204152**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204152.zip) | OPPO | Updates to AMMT use case – Split image recognition | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204152r2 agreed | **Revised** | **S1-204394** |
| 04r | 7.4.1 | S1-204394 | OPPO | Updates to AMMT use case – Split image recognition | pCR | 22.874 |  |  |  | 0.0.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204152 |  | Agreed. |  |
| 05 | 7.4.1 | [**S1-204013**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204013.zip) | InterDigital | FS\_AMMT – Removal of Editor’s Notes on other DNN models for the use-case on real time media editing with on-board AI inference | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204013r2 agreed | **Revised** | **S1-204395** |
| 05r | 7.4.1 | S1-204395 | InterDigital | FS\_AMMT – Removal of Editor’s Notes on DNN models, improvement and clarifications for the use-case on real time media editing with on-board AI inference | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204013 |  | Agreed. |  |
| 06 | 7.4.1 | [**S1-204014**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204014.zip) | InterDigital | FS\_AMMT – Updating of existing features related with the use-case on real time media editing with on-board AI inference | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  |  | **Approved** |  |
| 07 | 7.4.1 | [**S1-204015**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204015.zip) | InterDigital | FS\_AMMT – Updating of new requirements and KPIs for the use-case on real time media editing with on-board AI inference | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204015r2 provided for approval day  S1-204015r3 agreed. | **Revised** | **S1-204396** |
| 07r | 7.4.1 | S1-204396 | InterDigital | FS\_AMMT – Updating of new requirements and KPIs for the use-case on real time media editing with on-board AI inference | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204015 |  | Agreed. |  |
| 08 | 7.4.1 | [**S1-204113**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204113.zip) | LG Electronics Inc. | Update for Data Transfer Disturbance in Multi-agent multi-device ML | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) | S1-204113 is not the revision of S1-204109 but is an independent tdoc. | S1-204113r4 provided for approval day  S1-204113r5 opened: agreed. | **Revised** | **S1-204397** |
| 08r | 7.4.1 | S1-204397 | LG Electronics Inc. | Update for Data Transfer Disturbance in Multi-agent multi-device ML | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204113 |  | Agreed. |  |
| 09 | 7.4.1 | [**S1-204153**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204153.zip) | OPPO | Updates to AMMT use case – Split robot control use case | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  |  | **Revised to S1-204339** |  |
| 10 | 7.4.1 | [S1-204339](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204339.zip) | OPPO | Updates to AMMT use case – Split robot control use case |  |  |  |  |  |  |  |  |  | Revision of S1-204153. Same as 4153r1 | **Approved** |  |
| 11 | 7.4.1 | [**S1-204154**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204154.zip) | OPPO | Updates to AMMT use case – AI/ML model downloading for image recognition | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204154r7 agreed | **Revised** | **S1-204398** |
| 11r | 7.4.1 | S1-204398 | OPPO | Updates to AMMT use case – AI/ML model downloading for image recognition | pCR | 22.874 |  |  |  | 0.0.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204154 |  | Agreed. |  |
| 12 | 7.4.1 | [**S1-204155**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204155.zip) | OPPO | Updates to AMMT use case – AI/ML model downloading for speech recognition | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204155r1 agreed | **Revised** | **S1-204399** |
| 12r | 7.4.1 | S1-204399 | OPPO | Updates to AMMT use case – AI/ML model downloading for speech recognition | pCR | 22.874 |  |  |  | 0.0.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204155 |  | Agreed. |  |
| 13 | 7.4.1 | [**S1-204156**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204156.zip) | OPPO | Updates to AMMT use case – Federated Learning for image recognition | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204156r2 provided for approval day  S1-204156r3 opened: to be discussed more at next meeting, in particular with respect for Real-Time requirement. | **Noted** |  |
| 14 | 7.4.1 | [**S1-204245**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204245.zip) | Qualcomm Incorporated | Update of Use case on enhanced media recognition | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204245r1 provided for approval day  S1-204245r2 opened: agreed. | **Revised** | **S1-204400** |
| 14r | 7.4.1 | S1-204400 | Qualcomm Incorporated | Update of Use case on enhanced media recognition | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204245 |  | Agreed. |  |
| 15 | 7.4.1 | [**S1-204246**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204246.zip) | Qualcomm Incorporated | Update of Use case on media quality enhancement | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204246r1 provided for approval day  S1-204246r2 opened: agreed with the removal of the 2nd line of 5.3.6.1  S1-204246r3 agreed. | **Revised** | **S1-204401** |
| 15r | 7.4.1 | S1-204401 | Qualcomm Incorporated | Update of Use case on media quality enhancement | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204246 |  | Agreed. |  |
| 16 | 7.4.1 | [**S1-204159**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204159.zip) | OPPO | Update to Session-specific model transfer split computation decision operation | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204159r5 provided for approval day  S1-204159r6 : agreed | **Revised** | **S1-204402** |
| 16r | 7.4.1 | S1-204402 | OPPO | Update to Session-specific model transfer split computation decision operation | pCR | 22.874 |  |  |  | 0.0.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204159 |  | Agreed. |  |
| 17 | 7.4.1 | [**S1-204048**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204048.zip) | Samsung R&D Institute UK | FS\_AMMT: Update of Session-specific model transfer split computation operations | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) | In addition to network resource information, the status and capabilities of the UE informs the strategy for how to optimally split computation operations and transfer models over the 5G system. | S1-204048r1 provided for approval day | **Merge into 4159r2** |  |
| 19 | 7.4.1 | [**S1-204012**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204012.zip) | InterDigital | FS\_AMMT – New use-case on local AI/ML model split on factory robots | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204012r5 provided for approval day  S1-204012r6 (o: DT, Nokia) opened: Nokia still have concerns on the split model (Use case not "convincing"). | **Noted** |  |
| 20 | 7.4.1 | [**S1-204031**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204031.zip) | China Telecommunications | Use Case of AI Model Management as a Service | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) | A new case is proposed for "AI model management as a Service", leading to some potential requirements that the 5GS shall be able to:  - store AI/ML models as a capability exposed to 3rd party for invoking.  - be aware of user entering or leaving a certain area and distribute AI/ML model to UE by invoking capabilities such as QoS acceleration and sponsor data service.  - distribute an AI/ML model ranging from 3.2~536MB in less than 1 second with a user density of up to 5000~10000/km2 in a certain urban area. | Rev3 presented.  "QoS acceleration and sponsor data service" are terms unclear to Nokia and Qualcomm. They are agreed to be removed.  Nokia also wonder about the usefulness of pushing AI/ML to the UE (or even just involving it). China Telecom agree to remove this part (so "to UE" to be deleted in the potential requirements and maybe in other places).  China Telecom explained that they removed all occurences of "Application Server" (and replace them by "the 5GS") because it was commented that the application is out of scope of 3GPP. This is to be further discussed with Futurewei.  S1-204031r6 provided for approval day  S1-204031r7 opened: Agreed | **Revised** | **S1-204403** |
| 20r | 7.4.1 | S1-204403 | China Telecommunications | Use Case of AI Model Management as a Service | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204031 |  | Agreed. |  |
| 21 | 7.4.1 | [**S1-204046**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204046.zip) | Samsung R&D Institute UK | FS\_AMMT: Flocking Use Case | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) | Federated learning many involve many communicating devices. This use case explores a service enabler to improve the performance of ‘straggling contributors’ and not to waste resources on ‘vanguard’ members of the federation. | Rev6 presented.  "Federated learning" changed to "Group Performance".  For Xiaomi, this is a misunderstanding of Federated learning. There is an experts' difference of view between these 2 companies of what this concept means.  Samsung is fine with added a note to state that it is needed to check if this is a specific type/case of "Federated learning" (and if so, which one), or if this is the general case. Xiaomi agrees with this approach.  4046r9 agreed | **Revised** | **S1-204404** |
| 21r | 7.4.1 | S1-204404 | Samsung R&D Institute UK | FS\_AMMT: Flocking Use Case | pCR | 22.874 |  |  |  | 0.1.0 | **Rel-18** | **FS\_AMMT** | Replaces S1-204046 |  | Agreed. |  |
| 22 | 7.4.1 | [**S1-204047**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204047.zip) | Samsung R&D Institute UK | FS\_AMMT: Data Set Compression Service Enabler for DNN Applications Use Case | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) | Data sets used for computation with a DNN can be quite large, yet amenable to lossy compression. This may or may not be feasible to apply, depending on the application. A standard compression facility would increase system support for data set transport for diverse applications with latency constraints. |  | **Noted** |  |
| 23 | 7.4.1 | [**S1-204158**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204158.zip) | OPPO | New use case - Federated learning under network organization | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  |  | **Merge into 4046** |  |
| 24 | 7.4.1 | [**S1-204247**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204247.zip) | Qualcomm Incorporated | New Use case: Intelligent automotive system | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  | S1-204247r2 opened: not agreeable | **Noted** |  |
| 26 | 7.4.1 | [**S1-204248**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204248.zip) | Qualcomm Incorporated | Discussion on data models for KPI consolidation | pCR | [**22.874**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_AMMT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |  |  | **Noted** |  |
| 01 | 7.4.2 | S1-204352 | Rapporteur (OPPO) | TR22.874 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 02 | 7.5.1 | [**S1-204193**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204193.zip) | Samsung | FS\_5GET: Regulations at borders | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) | This P-CR to TR 22.926 considers the regulations that apply to UEs in border regions, where the territory in which the UE currently operates is ambiguous. | S1-204193r3 provided | **Revised** | **S1-204405** |
| 02r | 7.5.1 | S1-204405 | Samsung | FS\_5GET: Regulations at borders | pCR | 22.926 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GET** | Replaces S1-204193 |  | Agreed. |  |
| 03 | 7.5.1 | [**S1-204194**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204194.zip) | Samsung | FS\_5GET: Extra-territorial Data Retention Considerations | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) | Extra terrestrial operations will require conformance to applicable data protection and privacy laws, which are quite diverse. |  | **Revised to S1-204323** |  |
| 04 | 7.5.1 | S1-204323 | Samsung | FS\_5GET: Extra-territorial Data Retention Considerations |  |  |  |  |  |  |  |  |  | Revision of S1-204194.  Same as 4194r1. No comments in e-meet list by Friday 13th 23:00 UTC | **Approved** |  |
| 05 | 7.5.1 | [**S1-204197**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204197.zip) | TNO, Thales | FS\_GET Feature affected by Extraterritoriality - PWS | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |  | S1-204197r3 provided | **Revised** | **S1-204406** |
| 05r | 7.5.1 | S1-204406 | TNO, Thales | FS\_GET Feature affected by Extraterritoriality - PWS | pCR | 22.926 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GET** | Replaces S1-204197 |  | Agreed. |  |
| 06 | 7.5.1 | [**S1-204205**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204205.zip) | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – Network Access | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |  |  | **Revised to S1-204324** |  |
| 07 | 7.5.1 | S1-204324 | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – Network Access | pCR | 22.926 |  |  |  |  |  |  | Revision of S1-204205 | Revision of S1-204205.  Same as 4205r1. No comments in e-meet list by Friday 13th 23:00 UTC | **Approved** |  |
| 08 | 7.5.1 | [**S1-204210**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204210.zip) | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – Charging and Billing | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |  | No comments in e-meet list by Friday 13th 23:00 UTC | **Approved** |  |
| 09 | 7.5.1 | [**S1-204224**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204224.zip) | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – Emergency calls | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |  | S1-204224r1 provided | **Revised** | **S1-204407** |
| 09r | 7.5.1 | S1-204407 | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – Emergency calls | pCR | 22.926 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GET** | Replaces S1-204224 |  | Agreed. |  |
| 10 | 7.5.1 | [**S1-204228**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204228.zip) | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – lawful intercept | pCR | [**22.926**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GET**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |  | S1-204228r1 provided | **Revised** | **S1-204408** |
| 10r | 7.5.1 | S1-204408 | TNO, Thales | FS\_GET Feature affected by Extraterritoriality – lawful intercept | pCR | 22.926 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GET** | Replaces S1-204228 |  | Agreed. |  |
| 01 | 7.5.2 | S1-204353 | Rapporteur (THALES) | TR22.926 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.6.1 | [**S1-204016**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204016.zip) | LG Electronics | Update of section 5.1 | other |  |  |  |  |  |  |  | Rev1 presented.  The update is to clarify the current cell selection mechanisms as to take into consideration network slices.  The new requirement now reads: "[PR.5.1.6-2] When a UE is located in an area where there is at least one authorized network slice for the UE, the 5G system shall be able to minimize the time for the UE to access the network slices which is most suitable based on e.g., location of the UE, active applications, user preference, UE capability, frequency used by the network slice". | Nokia prefer to have a proper requirement rather than: "NOTE: It’s up to stage-2 and stage-3 on how user preference information is known to 5G system.".  For Huawei, China Unicom and Ericsson, many motivations are lacking for the proposed changes here (why to write about frequencies, etc?). Examples of the intended services are lacking.  For LGE, this answers to SA2 requests.  Rev2 agreed. | **Revised** | **S1-204409** |
| 03r | 7.6.1 | S1-204409 | LG Electronics | Update of section 5.1 | other |  |  |  |  |  |  |  | Replaces S1-204016 |  | Agreed. |  |
| 04 | 7.6.1 | [**S1-204111**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204111.zip) | Huawei, CMCC, Tencent | Update service scenario for disjoint network slices | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) | S1-204128 merged into 4111r1. | Qualcomm ask for the relationship between slices and operators to be clarified. | **Revised** | **S1-204410** |
| 04r | 7.6.1 | S1-204410 | Huawei, CMCC, Tencent | Update service scenario for disjoint network slices | pCR | 22.835 |  |  |  | 0.1.0 | **Rel-18** | **FS\_EASNS** | Replaces S1-204111 |  | Agreed. |  |
| 05 | 7.6.1 | [**S1-204128**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204128.zip) | Intel | Clarification for use case 5.3 for disjoint network slices | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) | S1-204128 merged into 4111r1. | Intel still has to check if they can agree with the proposed merging. | **Merge into**  **S1-204111r1** |  |
| 06 | 7.6.1 | [**S1-204086**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204086.zip) | Nokia, Nokia Shanghai Bell | FS\_EASNS: Use case on access to network slices when roaming clarification | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  |  | **Revised to S1-204310** |  |
| 07 | 7.6.1 | S1-204310 | Nokia, Nokia Shanghai Bell | FS\_EASNS: Use case on access to network slices when roaming clarification |  |  |  |  |  |  |  |  | Revision of S1-204086 | Revision of S1-204086.  Same as 4086r2 + fixing typos | **Approved** |  |
| 08 | 7.6.1 | [**S1-204129**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204129.zip) | Intel | Clarification of Use case 5.5 on access to slices when roaming | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) | Rev1 presented.  The requirement now reads: "[PR.5.5.6.2] When a UE has more than one ongoing applications that require different network slices offered by different network in the same area, the UE shall be able to determine required network slice based on user preferences on application priorities and select a higher priority PLMN offering the required network slice based on home operator policies." | More off-line discussions are needed. | **Noted** |  |
| 09 | 7.6.1 | [**S1-204107**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204107.zip) | Huawei, CMCC | Discussion on mobility handling scenario for a network slice | discussion | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Motivations for 4108. |  | **Noted** |  |
| 10 | 7.6.1 | [**S1-204108**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204108.zip) | Huawei, CMCC | Update mobility handling scenario for a network slice | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) | Some requirements are proposed to be moved (but they are shown as deleted). | This is to be corrected. But LGE and Nokia disagree with moving them anyway.  More offline discussions needed. | **Revised to S1-204311** |  |
| 11 | 7.6.1 | S1-204311 | Huawei, CMCC | Update mobility handling scenario for a network slice |  |  |  |  |  |  |  |  | Revision of S1-204108 | Revision of S1-204108.  Same as 4108r1. | **Approved** |  |
| 12 | 7.6.1 | [**S1-204103**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204103.zip) | Huawei, CMCC | Discussion on initial access scenario for a network slice | discussion | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Motivations for 4106. |  | **Noted** |  |
| 13 | 7.6.1 | [**S1-204106**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204106.zip) | Huawei, CMCC | Update initial access scenario for a network slice service | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  | The approach should be decided (in relation with ongoing work in other groups) and made consist for this series of pCR. | **Revised to S1-204312** |  |
| 14 | 7.6.1 | S1-204312 | Huawei, CMCC | Update initial access scenario for a network slice service | pCR | 22.835 |  |  |  |  |  |  | Revision of S1-204106 | Revision of S1-204106.  Same as 4106r1. | **Approved** |  |
| 15 | 7.6.1 | [**S1-204030**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204030.zip) | Tencent, China Unicom | Update to Use Case 5.7 for FS\_EANS | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  | S1-204030r2 agreed | **Revised** | **S1-204411** |
| 15r | 7.6.1 | S1-204411 | Tencent, China Unicom | Update to Use Case 5.7 for FS\_EANS | pCR | 22.835 |  |  |  | 0.1.0 | **Rel-18** | **FS\_EASNS** | Replaces S1-204030 |  | Agreed. |  |
| 16 | 7.6.1 | [**S1-204088**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204088.zip) | Nokia, Nokia Shanghai Bell | FS\_EASNS: Simultaneous access to multiple slices on different VPLMNs clarification | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  | S1-204088 provided for approval day | **Approved** |  |
| 17 | 7.6.1 | [**S1-204162**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204162.zip) | Apple | FS\_EASNS: Clarification on PLMN selection in service flow | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  |  | **Revised to S1-204313** |  |
| 18 | 7.6.1 | S1-204313 | Apple | FS\_EASNS: Clarification on PLMN selection in service flow | pCR | 22.835 |  |  |  |  |  |  | Revision of S1-204162 | Revision of S1-204162.  Same as 4162r1 | **Approved** |  |
| 19 | 7.6.1 | [**S1-204195**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204195.zip) | ETRI | Update of use case 5.4 for using Multi-RATs for network slices | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) | This contribution proposes an update of use case 5.4, Use of Multi-RATs for network slices. The main change is to replace “3GPP system” with “5G system” in 5.6.7 Potential New Requirements. |  | **Revised to S1-204314** |  |
| 20 | 7.6.1 | S1-204314 | ETRI | Update of use case 5.4 for using Multi-RATs for network slices | pCR | 22.835 |  |  |  |  |  |  | Revision of S1-204195 | Revision of S1-204195.  Same as 4195r1 | **Approved** |  |
| 22 | 7.6.1 | [**S1-204087**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204087.zip) | Nokia, Nokia Shanghai Bell | FS\_EASNS: Use case for application-based preference and its associated network slice for cell (re-)selection. | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  | S1-204087r4 opened: agreed | **Revised** | **S1-204412** |
| 22r | 7.6.1 | S1-204412 | Nokia, Nokia Shanghai Bell | FS\_EASNS: Use case for application-based preference and its associated network slice for cell (re-)selection. | pCR | 22.835 |  |  |  | 0.1.0 | **Rel-18** | **FS\_EASNS** | Replaces S1-204087 |  | Agreed. |  |
| 23 | 7.6.1 | [**S1-204017**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204017.zip) | LG Electronics | Regionally different resources for network slice | other |  |  |  |  |  |  |  |  |  | **Revised to S1-204315** |  |
| 24 | 7.6.1 | S1-204315 | LG Electronics | Regionally different resources for network slice | other |  |  |  |  |  |  |  | Revision of S1-204017 | Revision of S1-204017.  Same as 4017r2 | **Approved** |  |
| 25 | 7.6.1 | [**S1-204018**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204018.zip) | LG Electronics | Isolation of resource for network slice | other |  |  |  |  |  |  |  |  | Orig. version goes for approval day | **Approved** |  |
| 26 | 7.6.1 | [**S1-204019**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204019.zip) | LG Electronics | Consideration for different type of frequency | other |  |  |  |  |  |  |  |  |  | **Revised to S1-204316** |  |
| 27 | 7.6.1 | S1-204316 | LG Electronics | Consideration for different type of frequency | other |  |  |  |  |  |  |  | Revision of S1-204019 | Revision of S1-204019.  Same as 4019r1 | **Approved** |  |
| 28 | 7.6.1 | [**S1-204020**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204020.zip) | LG Electronics | Relaying and backhauling data for nework slice | other |  |  |  |  |  |  |  |  |  | **Noted** |  |
| 29 | 7.6.1 | [**S1-204021**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204021.zip) | LG Electronics | Interaction with Third party for network slice | other |  |  |  |  |  |  |  |  |  | **Revised to S1-204317** |  |
| 30 | 7.6.1 | S1-204317 | LG Electronics | Interaction with Third party for network slice | other |  |  |  |  |  |  |  | Revision of S1-204021 | Revision of S1-204021.  Same as 4021r3 | **Approved** |  |
| 31 | 7.6.1 | [**S1-204022**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204022.zip) | LG Electronics | Multicast Broadcast for network slice | other |  |  |  |  |  |  |  |  |  | **Revised to S1-204318** |  |
| 32 | 7.6.1 | S1-204318 | LG Electronics | Multicast Broadcast for network slice |  |  |  |  |  |  |  |  | Revision of S1-204022 | Revision of S1-204022.  Same as 4022r4 | **Approved** |  |
| 33 | 7.6.1 | [**S1-204023**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204023.zip) | LG Electronics | Congestion and Maintenance Handling for network slice | other |  |  |  |  |  |  |  |  | S1-204023r2 provided for approval day  S1-204023r3 (o: Nokia, Qualcomm): LG objects. | **Noted** |  |
| 34 | 7.6.1 | [**S1-204185**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204185.zip) | NTT DOCOMO | FS\_EASNS new use case: Slice access with the network updating UE's configuration | pCR | [**22.835**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3777) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_EASNS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880035) |  | S1-204085r1 provided for approval day | **Noted** |  |
| 01 | 7.6.2 | S1-204354 | Rapporteur (LG Electronics) | TR22.835 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 02 | 7.7.1 | [**S1-204035**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204035.zip) | Union Inter. Chemins de Fer | Introduce “Train integrity monitoring data communication” use case | pCR | [**22.990**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_OffNetRail**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |  |  | **Approved** |  |
| 03 | 7.7.1 | [**S1-204036**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204036.zip) | Union Inter. Chemins de Fer | Introduce “Shunting communication” use case | pCR | [**22.990**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_OffNetRail**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |  |  | **Approved** |  |
| 04 | 7.7.1 | [**S1-204037**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204037.zip) | Union Inter. Chemins de Fer | Introduce “Train ready for departure communication” use case | pCR | [**22.990**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_OffNetRail**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |  |  | **Approved** |  |
| 05 | 7.7.1 | [**S1-204089**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204089.zip) | KRRI | Autonomous Train Control and Operation | pCR |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | This contribution proposes a new service concept of train operation, in which each train makes own decision for its movement and operation without any help of railway infrastructure, such as track circuits, balise, signal block systems and even trackside Automatic Train Protections (ATPs) and Electronic Interlockings (EIs). Trains can decide its movement authority and operation by exchanging operational information through communications. | S1-204089r4 agreed | **Revised** | **S1-204413** |
| 05r | 7.7.1 | S1-204413 | KRRI | Autonomous Train Control and Operation | pCR |  |  |  |  |  | **Rel-18** |  | Replaces S1-204089 |  | Agreed. |  |
| 06 | 7.7.1 | [**S1-204090**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204090.zip) | KRRI | Virtual Coupling | discussion |  |  |  |  |  | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | This contribution proposes a new service concept of train operation, in which vehicles in close distance moves together without physical coupling. Similar to the platooning scenarios in road, successive vehicles exchange instantaneous control information for autonomous train control within a long braking distance. | S1-204090r4 provided for approval day | **Revised** | **S1-204414** |
| 06r | 7.7.1 | S1-204414 | KRRI | Virtual Coupling | discussion |  |  |  |  |  | **Rel-18** |  | Replaces S1-204090 |  | Agreed. |  |
| 07 | 7.7.1 | [**S1-204148**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204148.zip) | Union Inter. Chemins de Fer | Identified issue: Communication range | pCR | [**22.990**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_OffNetRail**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |  |  | **Approved** |  |
| 01 | 7.7.2 | S1-204355 | Rapporteur (UIC) | TR22.990 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 02 | 7.8.1 | [**S1-204083**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204083.zip) | Nokia, Nokia Shanghai Bell | FS\_5TRS: addition to overview | pCR | [**22.878**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3769) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5TRS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880037) |  | S1-204083r3 provided. Rev4 agreed. | **Revised** | **S1-204415** |
| 02r | 7.8.1 | S1-204415 | Nokia, Nokia Shanghai Bell | FS\_5TRS: addition to overview | pCR | 22.878 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5TRS** | Replaces S1-204083 |  | Agreed. |  |
| 03 | 7.8.1 | [**S1-204084**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204084.zip) | Nokia, Nokia Shanghai Bell | Use case on timing and timing resiliency delivery to financial sector | pCR | [**22.878**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3769) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5TRS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880037) |  | S1-204084r3 provided for approval day | **Revised** | **S1-204416** |
| 03r | 7.8.1 | S1-204416 | Nokia, Nokia Shanghai Bell | Use case on timing and timing resiliency delivery to financial sector | pCR | 22.878 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5TRS** | Replaces S1-204084 |  | Agreed. |  |
| 04 | 7.8.1 | [**S1-204085**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204085.zip) | Nokia, Nokia Shanghai Bell | FS\_5TRS: clarification on 5G timing resiliency for smart grids | pCR | [**22.878**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3769) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5TRS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880037) |  |  | **Revised to S1-204319** |  |
| 05 | 7.8.1 | S1-204319 | Nokia, Nokia Shanghai Bell | FS\_5TRS: clarification on 5G timing resiliency for smart grids | pCR | 22.878 |  |  |  |  |  |  | Revision of S1-204085 | Revision of S1-204085.  Same as 4085r2 | **Approved** |  |
| 01 | 7.8.2 | S1-204356 | Rapporteur (Nokia) | TR22.878 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.9.1 | [**S1-204093**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204093.zip) | ZTE Corporation, CEPRI, China Telecom, Samsung | Remove editor note about underground coverage | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  |  | **Approved** |  |
| 04 | 7.9.1 | [**S1-204095**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204095.zip) | CEPRI, ZTE Corporation, China Telecom | Update to Advanced Metering UC | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  | S1-204095r2 agreed | **Revised** | **S1-204417** |
| 04r | 7.9.1 | S1-204417 | CEPRI, ZTE Corporation, China Telecom | Update to Advanced Metering UC | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204095 |  | Agreed. |  |
| 05 | 7.9.1 | [**S1-204098**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204098.zip) | CEPRI, ZTE Corporation, China Telecom | Update to distributed automation UC | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  | S1-204098r1 agreed | **Revised** | **S1-204418** |
| 05r | 7.9.1 | S1-204418 | CEPRI, ZTE Corporation, China Telecom | Update to distributed automation UC | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204098 |  | Agreed. |  |
| 06 | 7.9.1 | [**S1-204198**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204198.zip) | Samsung, EUTC, Vodafone | Update to Remote DSO management of connectivity for Smart Energy Use Case | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | Notes are removed and details are added to use case in clause 5.7 of TR 22.867.  This update to the Remote DSO management of connectivity for Smart Energy Use case seeks to address the comment made at previous meeting that more explanation and clarity is needed to better understand and to justify the new potential requirements. | Rev4 presented.  Telefonica and Orange to be added as source.  Huawei have to check if they have further comments.  Rev8 presented: agreed | **Revised** | **S1-204419** |
| 06r | 7.9.1 | S1-204419 | Samsung, EUTC, Vodafone | Update to Remote DSO management of connectivity for Smart Energy Use Case | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204198 |  | Agreed. |  |
| 07 | 7.9.1 | [**S1-204201**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204201.zip) | Samsung, EUTC | Update: Smart Energy Differentiated QoS for Transported Encrypted Data | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | QoS guarantee in the connectivity in 3GPP networks end-points, when there are a multiplicity of services that are connected to the radio end-points with different layer 2 or layer 3 mechanisms, is essential for Utilities. | Rev1 presented.  Also more supporting companies to be added as source.  This is explained to be in the context of a multi (dual) SIM UE.  For vivo, "SIM card" should not be used. Instead, it is "UICC" (USIM is the application on the UICC).  Rev3 agreed | **Revised** | **S1-204420** |
| 07r | 7.9.1 | S1-204420 | Samsung, EUTC | Update: Smart Energy Differentiated QoS for Transported Encrypted Data | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204201 |  | Agreed. |  |
| 09 | 7.9.1 | [**S1-204101**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204101.zip) | CEPRI, ZTE Corporation, China Telecom | Use case of Smart Distribution Transformer Terminal | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  |  | **Revised to S1-204340** |  |
| 10 | 7.9.1 | [S1-204340](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204340.zip) | CEPRI, ZTE Corporation, China Telecom | Use case of Smart Distribution Transformer Terminal | pCR | 22.867 |  |  |  |  |  |  | Revision of S1-204101 | Revision of S1-204101. Same as 4101r2  S1-204340r2: agreed | **Revised** | **S1-204421** |
| 10r | 7.9.1 | S1-204421 | CEPRI, ZTE Corporation, China Telecom | Use case of Smart Distribution Transformer Terminal | pCR | 22.867 |  |  |  |  |  |  | Replaces S1-204340 |  | Agreed. |  |
| 11 | 7.9.1 | [**S1-204050**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204050.zip) | Nokia, Nokia Shanghai Bell | Use case on applications using IEC 61850-9-2 sampled values | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | This contribution proposes a use case for applications using IEC 61850-9-2 sampled values. This contribution has been prepared in collaboration with ABB Group’s Design Architect, Petri Syväluoma and Research Program Manager Petri Hovila. | Some comments arrived quite late by e-mail and could not be incorporated.  It is postponed to the next meeting. | **Noted** |  |
| 12 | 7.9.1 | [**S1-204105**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204105.zip) | China Telecom, CEPRI, ZTE Corporation | UC of Isolation for Smart Grid Applications | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  | S1-204105r5 opened: Agreed | **Revised** | **S1-204422** |
| 12r | 7.9.1 | S1-204422 | China Telecom, CEPRI, ZTE Corporation | UC of Isolation for Smart Grid Applications | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204105 |  | Agreed. |  |
| 13 | 7.9.1 | [**S1-204199**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204199.zip) | Samsung | Gateway vs. End to End Security Use Case | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | In some networks, data associated with utilities traverses different security domains. This use case considers the advantages of operation with the 5G security domain. | Huawei might have comments but could not provide them ontime.  Orig. version provided for approval day (o: Qualcomm)  Agreed with the following change: “[PR5.x.6-1] The 5G system shall enable support of a mechanism to support authentication and secured communication between the 5G system Core Network and a 3rd party’s application function, in order to provide secure end to end communication service." | **Revised** | **S1-204423** |
| 13r | 7.9.1 | S1-204423 | Samsung | Gateway vs. End to End Security Use Case | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204199 |  | Agreed. |  |
| 14 | 7.9.1 | [**S1-204200**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204200.zip) | Samsung, EUTC | QoS Monitoring and Reporting Mechanisms | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | QoS monitoring and response to failure of SLAs is an important aspect of service management by utilities of services offered by telecommunications networks. | Rev2 presented, where the requirements are clarified and some notes added.  Huawei might have concerns about the editor's note.  Samsung find it unfair that a company put several contributions at risk of not being agreed because of not providing comments earlier.  This is explained to be a very exceptional case.  Rev3 agreed | **Revised** | **S1-204424** |
| 14r | 7.9.1 | S1-204424 | Samsung, EUTC | QoS Monitoring and Reporting Mechanisms | pCR | 22.867 |  |  |  | 0.1.0 | **Rel-18** | **FS\_5GSEI** | Replaces S1-204200 |  | Agreed. |  |
| 15 | 7.9.1 | [**S1-204202**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204202.zip) | Samsung | Energy Substation Surveillance | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | Local regulations and Utility operations require physical security measures for energy substations. These measures include surveillance information that can be evaluated at any time. To meet these requirements, significant communication is required between the substation and the Utility operations center. |  | **Approved** |  |
| 16 | 7.9.1 | [**S1-204203**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204203.zip) | Samsung, EUTC, ZTE, China Telecom | Underground 3GPP Access | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | This 22.867 P-CR provides an annex to 3GPP access underground, or deep within facilities with no coverage from outdoor deployments of 3GPP access. |  | **Revised to S1-204341** |  |
| 17 | 7.9.1 | [S1-204341](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204341.zip) | Samsung, EUTC, ZTE, China Telecom | Underground 3GPP Access | pCR | 22.867 |  |  |  |  |  |  | Revision of S1-204203 | Revision of S1-204203. Same as 4203r1 | **Approved** |  |
| 18 | 7.9.1 | [**S1-204204**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204204.zip) | Huawei Technologies R&D UK | Use case on “Distribution Intelligence – self-healing” | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  |  | **Revised to S1-204342** |  |
| 19 | 7.9.1 | [S1-204342](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204342.zip) | Huawei | Use case on “Distribution Intelligence – self-healing” | pCR | 22.867 |  |  |  |  |  |  | Revision of S1-204204 | Revision of S1-204204. Same as 4204r1 | **Approved** |  |
| 20 | 7.9.1 | [**S1-204206**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204206.zip) | Huawei Technologies France | Use Case of supporting communication for the transmission of synchrophasors in wide-area smart grid | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | This contribution proposes a new PMU use case for FS\_5GSEI |  | **Revised to S1-204343** |  |
| 21 | 7.9.1 | [S1-204343](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204343.zip) | Huawei | Use Case of supporting communication for the transmission of synchrophasors in wide-area smart grid | pCR | 22.867 |  |  |  |  |  |  | Revision of S1-204206 | Revision of S1-204206. Same as 4206r1 | **Approved** |  |
| 22 | 7.9.1 | S1-204104 | China Telecom, CEPRI, ZTE Corporation | UC of Isolation for Smart Grid Applications | pCR | [**22.867**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |  |  | **Withdrawn** |  |
| 01 | 7.9.2 | S1-204357 | Rapporteur (China Telecom) | TR22.867 v0.1.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.10.1 | [**S1-204097**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204097.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging Add PR number to the potential new requirements | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 04 | 7.10.1 | [**S1-204165**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204165.zip) | Beijing Xiaomi Mobile Software | update for 5.9 distance based intelligent perception for public safety | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 05 | 7.10.1 | [**S1-204139**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204139.zip) | China Telecom | Clarification on museum tour requirement | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) | To clarify the value described in the potential requirement of museum tour use case of FS\_Ranging. | S1-204139r1 agreed | **Revised** | **S1-204425** |
| 05r | 7.10.1 | S1-204425 | China Telecom | Clarification on museum tour requirement | pCR | 22.855 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Ranging** | Replaces S1-204139 |  | Agreed. |  |
| 07 | 7.10.1 | [**S1-204091**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204091.zip) | ZTE Corporation | Active and Inactive consideration for ranging service | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) | New use case is proposed to consider active and inactive ranging service | Suggest to note | **Noted** |  |
| 08 | 7.10.1 | [**S1-204255**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204255.zip) | Philips International B.V. | FS\_Ranging New use case on spatial grouping | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) | In this use case, ranging is used to subdivide an area into subareas, based on the presence of multiple UEs in vicinity of each other. The ranging between a UE and a gravitational center or a designated center of a group of UEs in vicinity of each other can be used to enable certain services or trigger automatic actions. | Huawei and Qualcomm commented by e-mail that this can be seen more as an application and ask for rewording of the requirement in 5.X.6 to distinguish what is for the application or not. For Qualcomm, the first requirement and the note are application matters and should be deleted (or clarified).  For Sony, the second requirement needs also to be reworded because it also seems to be an application concern. | **Noted** |  |
| 09 | 7.10.1 | [**S1-204157**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204157.zip) | OPPO | Requirement of touchless self-checkout machine control | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  | S1-204157r2 agreed | **Revised** | **S1-204426** |
| 09r | 7.10.1 | S1-204426 | OPPO | Requirement of touchless self-checkout machine control | pCR | 22.855 |  |  |  | 0.0.0 | **Rel-18** | **FS\_Ranging** | Replaces S1-204157 |  | Agreed. |  |
| 10 | 7.10.1 | [**S1-204196**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204196.zip) | Huawei,Huawei Device | Finding pets in a long distance based on energy efficient ranging | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  | S1-204196r1 agreed | **Revised** | **S1-204427** |
| 10r | 7.10.1 | S1-204427 | Huawei,Huawei Device | Finding pets in a long distance based on energy efficient ranging | pCR | 22.855 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Ranging** | Replaces S1-204196 |  | Agreed. |  |
| 12 | 7.10.1 | [**S1-204099**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204099.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging Security and authorization issues | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  | S1-204099r4: agreed (DT and Qualcomm finally OK) | **Revised** | **S1-204428** |
| 12r | 7.10.1 | S1-204428 | Beijing Xiaomi Mobile Software | FS\_Ranging Security and authorization issues | pCR | 22.855 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Ranging** | Replaces S1-204099 |  | Agreed. |  |
| 13 | 7.10.1 | [**S1-204100**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204100.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging consolidated requirements | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  | S1-204100r7: Qualcomm prefer to postpone | **Noted** |  |
| 14 | 7.10.1 | [**S1-204102**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204102.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging conclusions and recommendations | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Noted** |  |
| 16 | 7.10.1 | [**S1-204234**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204234.zip) | Sony Corporation | FS\_Ranging kpi analysis of Ranging for vending machine use case | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) | proposal to validate the KPI's and remove the brackets for the vending machine use case | To be agreed without the square brackets. | **Approved** |  |
| 17 | 7.10.1 | [**S1-204145**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204145.zip) | Huawei,Huawei Device | KPI analysis on Picture and video sharing | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 18 | 7.10.1 | [**S1-204121**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204121.zip) | Beijing Xiaomi Electronics | FS\_Ranging KPI Analysis: Hands Free Access | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 19 | 7.10.1 | [**S1-204122**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204122.zip) | Beijing Xiaomi Electronics | FS\_Ranging KPI Analysis: Smart Vehicle Key | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 20 | 7.10.1 | [**S1-204120**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204120.zip) | Beijing Xiaomi Electronics | FS\_Ranging KPI Analysis: Finding items in a Supermarket | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 21 | 7.10.1 | [**S1-204092**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204092.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging KPI analysis on Distance based Smart Home Device Control Use Case | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 22 | 7.10.1 | [**S1-204094**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204094.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging KPI analysis on Smart Home TV Control Use Case | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) |  |  | **Approved** |  |
| 23 | 7.10.1 | [**S1-204096**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204096.zip) | Beijing Xiaomi Mobile Software | FS\_Ranging KPI analysis on Smart Transportation Metro/Bus Validation | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) | Rev1 presented. |  | **Revised to S1-204322** |  |
| 24 | 7.10.1 | S1-204322 | Xiaomi | FS\_Ranging KPI analysis on Smart Transportation Metro/Bus Validation | pCR | 22.855 |  |  |  |  |  |  | Revision of S1-204096 | Revision of S1-204096.  Same as 4096r1  No presentation | **Approved** |  |
| 25 | 7.10.1 | S1-204138 | China Telecom | Clarification on museum tour requirement | pCR | [**22.855**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3771) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Ranging**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880039) | To clarify the value described in the potential requirement of museum tour use case of FS\_Ranging. |  | **Withdrawn** |  |
| 01 | 7.10.2 | S1-204358 | Rapporteur (Xiaomi) | TR22.855 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.11.1 | [**S1-204170**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204170.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | Clarification on use case 5.4 | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204170r6 agreed | **Revised** | **S1-204429** |
| 03r | 7.11.1 | S1-204429 | Huawei, InterDigital | Clarification on use case 5.4 | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204170 |  | Agreed. |  |
| 04 | 7.11.1 | [**S1-204172**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204172.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | Claification on use case 5.5 | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204172r7 agreed | **Revised** | **S1-204465** |
| 04r | 7.11.1 | S1-204430 | Withdrawn | Used by mistake |  |  |  |  |  |  |  |  |  |  |  |  |
| 04r | 7.11.1 | S1-204465 | HUAWEI TECHNOLOGIES Co. Ltd. | Claification on use case 5.5 | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204172 |  | Agreed. |  |
| 05 | 7.11.1 | [**S1-204147**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204147.zip) | China Telecom | Existing feature analysis on QoS maintenance use case | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) | Add existing feature analysis to QoS maintenance use case in clause 5.3.5 of TR 22.858. | S1-204147r2 agreed | **Revised** | **S1-204431** |
| 05r | 7.11.1 | S1-204431 | China Telecom | Existing feature analysis on QoS maintenance use case | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) | Add existing feature analysis to QoS maintenance use case in clause 5.3.5 of TR 22.858. | S1-204147r2 agreed | Agreed. |  |
| 07 | 7.11.1 | [**S1-204007**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204007.zip) | InterDigital, KPN | FS\_Resident: New use case on Local control of indoor base station for UE access to a local home network device | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204007r4 presented: | **Noted** |  |
| 08 | 7.11.1 | [**S1-204174**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204174.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | New use case on E2E QoS monitoring | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204174r2 agreed | **Revised** | **S1-204432** |
| 08r | 7.11.1 | S1-204432 | HUAWEI TECHNOLOGIES Co. Ltd. | New use case on E2E QoS monitoring | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204174 |  | Agreed. |  |
| 09 | 7.11.1 | [**S1-204211**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204211.zip) | Apple | FS\_Resident: New use case on Provisioning Third-party Residential Gateway and Indoor gNB | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204211r4 agreed | **Revised** | **S1-204433** |
| 09r | 7.11.1 | S1-204433 | Apple | FS\_Resident: New use case on Provisioning Third-party Residential Gateway and Indoor gNB | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204211 |  | Agreed. |  |
| 11 | 7.11.1 | [**S1-204181**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204181.zip) | KPN | Use case on 5G LAN scalability | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204181r3 agreed | **Revised** | **S1-204434** |
| 11r | 7.11.1 | S1-204434 | KPN | Use case on 5G LAN scalability | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204181 |  | Agreed. |  |
| 12 | 7.11.1 | [**S1-204190**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204190.zip) | KPN | Use case on indoor LAN to 5G LAN connectivity | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | Orig. version goes for approval day | **Approved** |  |
| 14 | 7.11.1 | [**S1-204074**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204074.zip) | vivo Mobile Com. (Chongqing) | New Use case: Video game playing | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204074r5 agreed | **Noted** |  |
| 15 | 7.11.1 | [**S1-204264**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204264.zip) | InterDigital | FS\_Resident: Use case on seamless switching from a UE-to-UE direct communication to an indirect communication via a residential gateway | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204264r6 agreed | **Revised** | **S1-204435** |
| 15r | 7.11.1 | S1-204435 | InterDigital, KPN | FS\_Resident: Use case on seamless switching from a UE-to-UE direct communication to an indirect communication via a residential gateway | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204264 |  | Agreed. |  |
| 16 | 7.11.1 | [**S1-204265**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204265.zip) | InterDigital | FS\_Resident: Use case on seamless switching to a service hosting environment via a residential gateway | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204265r5 agreed | **Revised** | **S1-204436** |
| 16r | 7.11.1 | S1-204436 | InterDigital | FS\_Resident: Use case on seamless switching to a service hosting environment via an evolved residential gateway | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204265 |  | Agreed. |  |
| 18 | 7.11.1 | [**S1-204268**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204268.zip) | KPN | Definition of terminology on indoor base station | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  | S1-204268r2 agreed | **Revised** | **S1-204437** |
| 18r | 7.11.1 | S1-204437 | KPN | Definition of terminology on indoor base station | pCR | 22.858 |  |  |  | 0.1.0 | **Rel-18** | **FS\_Resident** | Replaces S1-204268 |  | Agreed. |  |
| 19 | 7.11.1 | [**S1-204269**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204269.zip) | KPN | Definition of terminology on residential gateway | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  |  | **Merge into 4268** |  |
| 20 | 7.11.1 | [**S1-204173**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204173.zip) | HUAWEI TECHNOLOGIES Co. Ltd. | Definition on indoor small base station | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  |  | **Merge into 4268** |  |
| 21 | 7.11.1 | [**S1-204081**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204081.zip) | Nokia, Nokia Shanghai Bell | FS\_RESIDENT: terminology update | pCR | [**22.858**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_Resident**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |  |  | **Merge into 4268** |  |
| 22 | 7.11.1 | [S1-204302](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204302.zip) | FS\_Resident Rapporteur | presentation with some way forward on Resident terminology |  |  |  |  |  |  |  |  | Rev1 presented.  The suggested definitions are:  "Premises Radio Access Station": a basestation installed at a customer premises network primarily for use within a residence, office or shop.  "Evolved Residential Gateway": a gateway between the public operator network (fixed/mobile/cable) and a customer premises network within a residence, office or shop. | "Premises Radio Access Station" is an equivalent of HomeNodeB.  It was agreed to add an editor's note below the first definition to state that "Customer premises network" need further clarifications.  For Qualcomm, "Base Station" is better than "Radio Access Station". This is agreeable.  For Sony and Huawei, more figures (up to 3) will ease the understanding.  For Huawei, the context is unclear, and the relationship between the concepts presented here and other related context should be clarified (premise, residential, BBF, PIN network, etc.). The relationship between all these concepts should be clarified.  About the figure on slide 5:  For LG, the 5GS on the right is what 3GPP works upon, so if these concepts are outside 3GS, then they are outside of 3GPP scope.  For vivo, the figure is meant to clarify the relationship on the left (mobile) and on the right (network) rather than in the center (within the house).  For Sony, it remains that it has to be clarified what is under 3GPP scope and what is not.  Back to the global proposal:  For Nokia, it is essential to clarify these concepts.  Interdigital and Intel support these definitions, even if the wording is changed, and thank the rapporteur for clarifying the concepts.  It was agreed that the figure can be ignored at this stage.  On slide 3, Huawei has concerns with the bullet stating: "Important that we are talking about ‘customer premises equipment’, i.e. different from fully operator owned and controlled network environments".  "Customer premises network" might be really close to PIN – this needs to be clarified later on.  Conclusion: agreed to have these definitions, keeping these words for the time being, and the note proposed by LG and stating that the actual words could be later changed. | **Merge into 4268** |  |
| 01 | 7.11.2 | S1-204359 | Rapporteur (KPN) | TR22.858 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.12.1 | [**S1-204061**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204061.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Updating the media share use case | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204061r6 provided for approval day | **Revised** | **S1-204438** |
| 03r | 7.12.1 | S1-204438 | vivo Mobile Com. (Chongqing) | FS\_PIN Updating the media share use case | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204061 |  | Agreed. |  |
| 04 | 7.12.1 | [**S1-204062**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204062.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Updating Criteria aspect for non-operator managed spectrum for use case 5.4 | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204062r1 provided for approval day | **Revised** | **S1-204439** |
| 04r | 7.12.1 | S1-204439 | vivo Mobile Com. (Chongqing) | FS\_PIN Updating Criteria aspect for non-operator managed spectrum for use case 5.4 | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204062 |  | Agreed. |  |
| 05 | 7.12.1 | [**S1-204063**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204063.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Updating charging aspect for use case 5.4 | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Approved** |  |
| 06 | 7.12.1 | [**S1-204064**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204064.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Updating statistics aspect for non-operator managed spectrum for use case 5.4 | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204064r3 provided for approval day | **Revised** | **S1-204440** |
| 06r | 7.12.1 | S1-204440 | vivo Mobile Com. (Chongqing) | FS\_PIN Updating statistics aspect for non-operator managed spectrum for use case 5.4 | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204064 |  | Agreed. |  |
| 07 | 7.12.1 | [**S1-204059**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204059.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Onboarding | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Revised to S1-204331** |  |
| 08 | 7.12.1 | [S1-204331](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204331.zip) | Vivo | FS\_PIN Onboarding | pCR | 22.859 |  |  |  |  |  |  | Revision of S1-204059 | Revision of S1-204059. Same as 4059r4 | **Approved** |  |
| 09 | 7.12.1 | [**S1-204065**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204065.zip) | vivo Mobile Com. (Chongqing) | FS\_PINs – Use case Positioning AR/ VR update | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Withdrawn** |  |
| 10 | 7.12.1 | [**S1-204127**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204127.zip) | Intel | Update of Use Case of UE accessing Services of PIN Devices at home | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) | propose new service requirements | S1-204127r4 (o: Nokia, DT) opened: still problems with requirement 3 (and other ones), editor notes to be aligned with other documents, changes on req 2 to be removed.  Too many corrections.  S1-204127r5: agreed | **Revised** | **S1-204441** |
| 10r | 7.12.1 | S1-204441 | Intel | Update of Use Case of UE accessing Services of PIN Devices at home | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204127 |  | Agreed. |  |
| 12 | 7.12.1 | [**S1-204010**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204010.zip) | Dolby Laboratories Inc. | FS\_PINs – Use case – Follow-me audio capture and playback | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Noted** |  |
| 13 | 7.12.1 | [**S1-204011**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204011.zip) | Convida Wireless LLC | FS\_PIN use case – Personal health monitoring PIN devices | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Revised to S1-204332** |  |
| 14 | 7.12.1 | [S1-204332](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204332.zip) | Convida Wireless LLC | FS\_PIN use case – Personal health monitoring PIN devices | pCR | 22.859 |  |  |  |  |  |  | Revision of S1-204011 | Revision of S1-204011. Same as 4011r2 | **Approved** |  |
| 15 | 7.12.1 | [**S1-204226**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204226.zip) | Philips International B.V. | FS\_PIN New use case personal health | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204226r4 provided for approval day | **Revised** | **S1-204442** |
| 15r | 7.12.1 | S1-204442 | Philips International B.V. | FS\_PIN New use case personal health | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204226 |  | Agreed. |  |
| 16 | 7.12.1 | [**S1-204038**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204038.zip) | InterDigital | FS\_PIN: New use case: UE accessing PIN applications hosted by 5G enabled gateways | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204038r6 (o: Huawei) opened.  Agreed with adding:  “Editor’s Note: The relationship between service hosting environment and PIN element needs to be clarified. ” | **Revised** | **S1-204443** |
| 16r | 7.12.1 | S1-204443 | InterDigital | FS\_PIN: New use case: UE accessing PIN applications hosted by gateways | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204038 |  | Agreed. |  |
| 17 | 7.12.1 | [**S1-204060**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204060.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Usecase - The tour guide | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Revised to S1-204333** |  |
| 18 | 7.12.1 | [S1-204333](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204333.zip) | Vivo | FS\_PIN Usecase - The tour guide | pCR | 22.859 |  |  |  |  |  |  | Revision of S1-204060 | Revision of S1-204060. Same as 4060r6 | **Approved** |  |
| 19 | 7.12.1 | [**S1-204175**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204175.zip) | KPN | FS\_PIN Use case Broadcast service discovery | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204175r3 provided for approval day  S1-204175r4 (o: Qualcomm) opened: OK | **Revised** | **S1-204444** |
| 19r | 7.12.1 | S1-204444 | KPN | FS\_PIN Use case Broadcast service discovery | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204175 |  | Agreed. |  |
| 21 | 7.12.1 | [**S1-204066**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204066.zip) | vivo Mobile Com. (Chongqing) | PINs – Editorials | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Approved** |  |
| 22 | 7.12.1 | [**S1-204067**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204067.zip) | vivo Mobile Com. (Chongqing) | PINs –PIN definition updates | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  | S1-204067r5 provided for approval day | **Revised** | **S1-204445** |
| 22r | 7.12.1 | S1-204445 | vivo Mobile Com. (Chongqing) | PINs –PIN definition updates | pCR | 22.859 |  |  |  | 0.1.0 | **Rel-18** | **FS\_PIN** | Replaces S1-204067 |  | Agreed. |  |
| 23 | 7.12.1 | [S1-204330](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204330.zip) | PINs rapporteur | PINs Terminology |  |  |  |  |  |  |  |  | The PINs rapporteur proposes to clarify the terminology. | Initially wrongly submitted as S1-204430.  Edited while projecting.  The initiative is much appreciated. | **Endorsed** |  |
| 24 | 7.12.1 | [**S1-204058**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204058.zip) | vivo Mobile Com. (Chongqing) | FS\_PIN Overview | pCR | [**22.859**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PIN**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |  |  | **Revised to S1-204334** |  |
| 25 | 7.12.1 | [S1-204334](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204334.zip) | Vivo | FS\_PIN Overview | pCR | 22.859 |  |  |  |  |  |  | Revision of S1-204058 | Revision of S1-204058. Same as 4058r4 | **Approved** |  |
| 26 | 7.12.1 | [**S1-204057**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204057.zip) | vivo Mobile Com. (Chongqing) | Minutes of PIN call 28th October | other |  |  |  |  |  |  |  | Draft minutes of PIN call on 28th October. FYI should be NOTED. | No thread needed | **Noted** |  |
| 01 | 7.12.2 | S1-204360 | Rapporteur (vivo) | TR22.859 v0.2.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.13.1 | [**S1-204227**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204227.zip) | QUALCOMM Europe Inc. - Spain | PALS TR skeleton | draft TR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) | proposed TR skeleton |  | **Revised to S1-204336** |  |
| 04 | 7.13.1 | [S1-204336](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204336.zip) | Qualcomm | PALS TR skeleton | draft TR | 22.844 |  |  |  |  |  |  | Revision of S1-204227 | Revision of S1-204227. Same as 4336 | **Approved** |  |
| 05 | 7.13.1 | [**S1-204229**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204229.zip) | QUALCOMM Europe Inc. - Spain | PALS TR scope | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  |  | **Approved** |  |
| 07 | 7.13.1 | [**S1-204026**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204026.zip) | LG Electronics Inc. | On demand connectivity service for International traveller | other |  |  |  |  |  |  |  |  |  | **Merged into 4075r1** |  |
| 08 | 7.13.1 | [**S1-204027**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204027.zip) | LG Electronics Inc. | Providing PALS service over unlicensed band | other |  |  |  |  |  |  |  |  |  | **Approved** |  |
| 09 | 7.13.1 | [**S1-204051**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204051.zip) | Samsung R&D Institute UK | FS\_PALS: Business models for Providing Access to Localized Services | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) | This pseudo-CR considers the basic business models behind providing access to localized services. |  | **Approved** |  |
| 10 | 7.13.1 | [**S1-204075**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204075.zip) | vivo Mobile Com. (Chongqing) | new use case for roaming service for FS\_PALS | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  | S1-204075r3 provided for approval day | **Revised** | **S1-204446** |
| 10r | 7.13.1 | S1-204446 | vivo Mobile Com. (Chongqing) | new use case for roaming service for FS\_PALS | pCR | 22.844 |  |  |  | 0.0.0 | **Rel-18** | **FS\_PALS** | Replaces S1-204075 |  | Agreed. |  |
| 11 | 7.13.1 | [**S1-204217**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204217.zip) | Intel | Use Case for UEs using home network service via hosting network | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  | S1-204217r4 provided for approval day | **Revised** | **S1-204447** |
| 11r | 7.13.1 | S1-204447 | Intel | Use Case for UEs using home network service via hosting network | pCR | 22.844 |  |  |  | 0.0.0 | **Rel-18** | **FS\_PALS** | Replaces S1-204217 |  | Agreed. |  |
| 12 | 7.13.1 | [**S1-204219**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204219.zip) | Intel | Use Case for UEs using on demand services via hosting network | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  | S1-204219r3 provided for approval day | **Revised** | **S1-204448** |
| 12r | 7.13.1 | S1-204448 | Intel | Use Case for UEs using on demand services via hosting network | pCR | 22.844 |  |  |  | 0.0.0 | **Rel-18** | **FS\_PALS** | Replaces S1-204219 |  | Agreed. |  |
| 13 | 7.13.1 | [**S1-204230**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204230.zip) | QUALCOMM Europe Inc. - Spain | New use case: automatic discovery and selection | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  | S1-204230r2 provided for approval day | **Revised** | **S1-204449** |
| 13r | 7.13.1 | S1-204449 | QUALCOMM Europe Inc. - Spain | New use case: automatic discovery and selection | pCR | 22.844 |  |  |  | 0.0.0 | **Rel-18** | **FS\_PALS** | Replaces S1-204230 |  | Agreed. |  |
| 14 | 7.13.1 | [**S1-204231**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204231.zip) | QUALCOMM Europe Inc. - Spain | New use case: in venue discovery and registration | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  | S1-204231r4 (o: DT) opened:  OK with removal of first 2 reqs and with adding “Editor's Note: Further requirements corresponding to steps 1 to 4 in the service flow might be needed and are FFS.” | **Revised** | **S1-204450** |
| 14r | 7.13.1 | S1-204450 | QUALCOMM Europe Inc. - Spain | New use case: in venue discovery and registration | pCR | 22.844 |  |  |  | 0.0.0 | **Rel-18** | **FS\_PALS** | Replaces S1-204231 |  | Agreed. |  |
| 15 | 7.13.1 | [**S1-204232**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204232.zip) | QUALCOMM Europe Inc. - Spain | New use case: service configuration\_standard API | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  |  | **Revised to S1-204335** |  |
| 16 | 7.13.1 | [S1-204335](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204335.zip) | Qualcomm | New use case: service configuration\_standard API | pCR | 22.844 |  |  |  |  |  |  | Revision of S1-204232 | Revision of S1-204232.Same as 4232r2 | **Agreed** |  |
| 17 | 7.13.1 | [**S1-204233**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204233.zip) | Ericsson LM | Use case for Steering a UE between networks for localized services | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  |  | **Noted** |  |
| 18 | 7.13.1 | [**S1-204263**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204263.zip) | InterDigital | FS\_PALS: New use case on hosting network deployment for a temporary event | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  | 4263r4: agreed | **Revised to S1-204337** |  |
| 19 | 7.13.1 | [S1-204337](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204337.zip) | InterDigital | FS\_PALS: New use case on hosting network deployment for a temporary event | pCR | 22.844 |  |  |  |  |  |  | Revision of S1-204263 |  | **Agreed** |  |
| 20 | 7.13.1 | [**S1-204267**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204267.zip) | KPN, TNO | Regulatory requirements in a network providing access to localized services | pCR | [**22.844**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |  |  | **Revised to S1-204338** |  |
| 21 | 7.13.1 | [S1-204338](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2020/SA1_92e/docs/S1-204338.zip) | KPN, TNO | Regulatory requirements in a network providing access to localized services | pCR | 22.844 |  |  |  |  |  |  | Revision of S1-204267 | Revision of S1-204267. Same as 4267r1 | **Approved** |  |
| 22 | 7.13.1 | [**S1-204025**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204025.zip) | LG Electronics Inc. | Requirement Alignment related to PLMN reselection | other | [**22.011**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) |  |  |  |  | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |  |  | **Withdrawn** |  |
| 01 | 7.13.2 | S1-204361 | Rapporteur (Qualcomm) | TR22.844 v0.1.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 03 | 7.14.1 | [**S1-204244**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204244.zip) | Qualcomm Incorporated | TR skeleton | draft TR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Rev1 presented. | Rev1 is fine for Samsung (who had issues with the previous version). | **Revised to S1-204296** | **S1-204296** |
| 04 | 7.14.1 | S1-204296 | Qualcomm Incorporated | TR skeleton | draft TR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204244 | Revision of S1-204244.  Same as 4244r1 without colours. | **Approved** |  |
| 05 | 7.14.1 | [**S1-204220**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204220.zip) | Qualcomm Incorporated | TR scope | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | This is in line with the text from the WID. |  | **Approved** |  |
| 06 | 7.14.1 | [**S1-204221**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204221.zip) | Qualcomm Incorporated | Text proposal for Overview section | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Rev1 presented. | "mobile base station relay" is the chosen way, so all use cases have to be aligned with this. | **Revised** | **S1-204451** |
| 06r | 7.14.1 | S1-204451 | Qualcomm Incorporated | Text proposal for Overview section | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204221 |  | Agreed. |  |
| 08 | 7.14.1 | [**S1-204222**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204222.zip) | Qualcomm Incorporated | Use case: support of relay operation, activation and basic configuration | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204222r2 provided for approval day | **Revised** | **S1-204452** |
| 08r | 7.14.1 | S1-204452 | Qualcomm Incorporated | Use case: support of relay operation, activation and basic configuration | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204222 |  | Agreed. |  |
| 09 | 7.14.1 | [**S1-204151**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204151.zip) | CATT | Use case for authorization and configuration for car mounted base station | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Rev1 presented. | Terminology to be aligned, no other change. | **Revised to S1-204297** | **S1-204297** |
| 10 | 7.14.1 | S1-204297 | CATT | Use case for authorization and configuration for car mounted base station | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204151 | Revision of S1-204151.  Same as 4151r1+ correct terminology | **Approved** |  |
| 12 | 7.14.1 | [**S1-204223**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204223.zip) | Qualcomm | Use case: access control, permission and policies | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204223r2 provided for approval day | **Revised** | **S1-204453** |
| 12r | 7.14.1 | S1-204453 | Qualcomm | Use case: access control, permission and policies | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204223 |  | Agreed. |  |
| 13 | 7.14.1 | [**S1-204235**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204235.zip) | Qualcomm | Use case: access control, app based user authorization | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204235r2 provided for approval day | **Revised** | **S1-204454** |
| 13r | 7.14.1 | S1-204454 | Qualcomm | Use case: access control, app based user authorization | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204235 |  | Agreed. |  |
| 14 | 7.14.1 | [**S1-204149**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204149.zip) | CATT | Use case for multiple working modes of vehicle mounted base station | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204149r2 provided for approval day (uploaded but not in the right format) | **Revised** | **S1-204455** |
| 14r | 7.14.1 | S1-204455 | CATT | Use case for multiple working modes of vehicle mounted base station | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204149 |  | Agreed. |  |
| 16 | 7.14.1 | [**S1-204236**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204236.zip) | Qualcomm | Use case: mobility between macro and relay - user outside vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | Orig. version goes for approval day | **Agreed** |  |
| 17 | 7.14.1 | [**S1-204237**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204237.zip) | Qualcomm | Use case: mobility between macro and relay, user entering-leaving vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | Orig. version goes for approval day | **Agreed** |  |
| 18 | 7.14.1 | [**S1-204238**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204238.zip) | Qualcomm | Use case: mobility between relays, user outside vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | Orig. version goes for approval day | **Agreed** |  |
| 19 | 7.14.1 | [**S1-204239**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204239.zip) | Qualcomm | Use case: mobility between relays, user inside vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204239r1 provided for approval day | **Revised** | **S1-204456** |
| 19r | 7.14.1 | S1-204456 | Qualcomm | Use case: mobility between relays, user inside vehicle | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204239 |  | Agreed. |  |
| 20 | 7.14.1 | [**S1-204240**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204240.zip) | Qualcomm | Use case: mobility of relay between macro, user outside vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | Orig. version goes for approval day | **Agreed** |  |
| 21 | 7.14.1 | [**S1-204241**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204241.zip) | Qualcomm | Use case: mobility of relay between macro, user inside vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204241r1 provided for approval day | **Revised** | **S1-204457** |
| 21r | 7.14.1 | S1-204457 | Qualcomm | Use case: mobility of relay between macro, user inside vehicle | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204241 |  | Agreed. |  |
| 23 | 7.14.1 | [**S1-204109**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204109.zip) | LG Electronics., Qualcomm | Use Case: Optimizing mobility for UEs | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Rev1 presented. | Terminology to be aligned. | **Revised to S1-204299** | **S1-204299** |
| 24 | 7.14.1 | S1-204299 | LG Electronics., Qualcomm | Use Case: Optimizing mobility for UEs | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204109 | Revision of S1-204109.  Same as 4109r1 + correct terminology | **Revised to S1-204320** |  |
| 25 | 7.14.1 | S1-204320 | LG Electronics., Qualcomm | Use Case: Optimizing mobility for UEs | pCR | 22.839 |  |  |  |  |  |  | Revision of S1-204299 | Revision of S1-204109.  Same as 4109r1 + correct terminology  Revision of S1-204299. To adapt terminology. | **Approved** |  |
| 26 | 7.14.1 | [**S1-204110**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204110.zip) | LG Electronics., Qualcomm | Use Case: VMR load balancing | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Rev1 presented. | Terminology to be aligned, no other changes needed. | **Revised to S1-204298** | **S1-204298** |
| 27 | 7.14.1 | S1-204298 | LG Electronics., Qualcomm | Use Case: VMR load balancing | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Revision of S1-204110 | Revision of S1-204110.  Same as 4110r1 + correct terminology. | **Revised to S1-204321** |  |
| 28 | 7.14.1 | S1-204321 | LG Electronics., Qualcomm | Use Case: VMR load balancing | pCR | 22.839 |  |  |  |  |  |  | Revision of S1-204298 | Revision of S1-204110.  Same as 4110r1 + correct terminology.  Revision of S1-204298. To adapt terminology. | **Approved** |  |
| 29 | 7.14.1 | [**S1-204150**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204150.zip) | CATT | Use case for continuous connection via bus mounted base station | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204150r3 provided for approval day | **Revised** | **S1-204458** |
| 29r | 7.14.1 | S1-204458 | CATT | Use case for continuous connection via bus mounted base station | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204150 |  | Agreed. |  |
| 31 | 7.14.1 | [**S1-204176**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204176.zip) | Beijing Xiaomi Electronics | FS\_VMR-Use\_Case-Provide Location service to a UE attached to the relay mounted in the vehicle | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.1.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204176r1 provided for approval day | **Revised** | **S1-204459** |
| 31r | 7.14.1 | S1-204459 | Beijing Xiaomi Electronics | FS\_VMR-Use\_Case-Provide Location service to a UE attached to the relay mounted in the vehicle | pCR | 22.839 |  |  |  | 0.1.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204176 |  | Agreed. |  |
| 32 | 7.14.1 | [**S1-204242**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204242.zip) | Qualcomm Incorporated | Use case: incentives and charging | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | Orig. version goes for approval day | **Approved** |  |
| 33 | 7.14.1 | [**S1-204243**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204243.zip) | Qualcomm Incorporated | Draft TP for section on Other considerations | pCR | [**22.839**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 0.0.0 | [**Rel-18**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |  | S1-204243r1 provided for approval day | **Revised** | **S1-204460** |
| 33r | 7.14.1 | S1-204460 | Qualcomm Incorporated | Draft TP for section on Other considerations | pCR | 22.839 |  |  |  | 0.0.0 | **Rel-18** | **FS\_VMR** | Replaces S1-204243 |  | Agreed. |  |
| 01 | 7.14.2 | S1-204362 | Rapporteur (Qualcomm) | TR22.839 v0.1.0 to include agreements at this meeting |  |  |  |  |  |  |  |  |  | Draft version by Monday 23th 23:00 UTC.  Comments till Sunday 29th 23:00 UTC  Final TR by Monday 30th 23:00 UTC | For e-mail submission |  |
| 01 | 8 | S1-204054 | Nokia, Nokia Shanghai Bell | Quality improvement: Clarification of “High accuracy positioning” power consumption requirement | CR | [**22.261**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 0474 |  | F | 16.13.0 | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | The power consumption requirement in 22.261 7.3.2.3 “Other performance requirements” is well beyond the scope of 3GPP, for example, 3GPP does not know the semiconductor technology that might be used in the chipset which is by far the most influential parameter for power consumption. Thus this requirement 3GPP cannot fulfill on their own. Furthermore, this requirement has already prompted attempts to add different ones, which SA1, amongst others, rejected for the above given reasons. The CR addresses this quality issue |  | **Withdrawn** |  |
| 01 | 9 | [**S1-204049**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204049.zip) | SyncTechno Inc. | 3GPP Release timeline consideration of 5G verticals | discussion |  |  |  |  |  |  |  | This contribution describes the consideration of 5G vertical domain such as maritime domain with the different timeline that is somewhat lengthier than 3GPP Release timeline when 3GPP make a decision of 3GPP Release timelines and the work scope per Release.  It is proposed to allow new studies of 5G verticals such as maritime domain to start during 3GPP Release 18 Stage-1 timeline in 2021 even if it is targeting Release 19 Stage-1 normative works. | Point taken buy the SA1 chair. | **Noted** |  |
| 02 | 9 | [**S1-204052**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204052.zip) | Samsung R&D Institute UK | SA1 Updates to ToR | discussion |  |  |  |  |  |  |  | TSG SA endorsed a template to update all SA WGs in SA 86. SA1 should submit an updated ToR to SA 90e. This discussion paper suggests how to proceed. |  | **Noted** |  |
| 03 | 9 | [**S1-204053**](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_92_Electronic_Meeting/Docs/S1-204053.zip) | Samsung R&D Institute UK | Updated SA1 ToR, using new template | ToR |  |  |  |  |  |  |  | TSG SA endorsed a template to update all SA WGs in SA 86. SA1 should submit an updated ToR to SA 90e. | Rev2 presented.  Some more documents to be provided by e-mail.  S1-204053r3 agreed | **Revised** | **S1-204461** |
| 03r | 9 | S1-204461 | Samsung R&D Institute UK | Updated SA1 ToR, using new template | ToR |  |  |  |  |  |  |  | Replaces S1-204053 |  | Agreed. |  |
|  | 10.2 | S1-204462 | Raporteur (UIC) | Status report for eFRMCS |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 10.2 | S1-204463 | Raporteur (China Mobile) | Status report for TMM |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 10.2 | S1-204464 | Raporteur (Intel) | Status report for SFC |  |  |  |  |  |  |  |  |  |  |  |  |
| 01 | 10.2 | S1-204363 | China Mobile | FS\_MMTELin5G – Status report |  |  |  |  |  |  |  |  |  |  | **Noted** |  |
| 02 | 10.2 | S1-204364 | Hansung University | FS\_RAILSS – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 03 | 10.2 | S1-204365 | OPPO | FS\_AMMT – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 04 | 10.2 | S1-204366 | THALES | FS\_5GET– Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 05 | 10.2 | S1-204367 | LG Electronics | FS\_EASNS – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 06 | 10.2 | S1-204368 | UIC | FS\_OffNetRail – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 07 | 10.2 | S1-204369 | Nokia | FS\_5TRS – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 08 | 10.2 | S1-204370 | China Telecom | FS\_5GSEI – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 09 | 10.2 | S1-204371 | Xiaomi | FS\_Ranging – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 10 | 10.2 | S1-204372 | KPN | FS\_Resident – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 11 | 10.2 | S1-204373 | Vivo | FS\_PIN – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 12 | 10.2 | S1-204374 | Qualcomm | FS\_PALS – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
| 13 | 10.2 | S1-204375 | Qualcomm | FS\_VMR – Status report |  |  |  |  |  |  |  |  |  |  | Noted |  |
|  | 99 | S1-204345 |  | Not used |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 99 | S1-204346 |  | Not used |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 99 | S1-204347 |  | Not used |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 99 | S1-204348 |  | Not used |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 99 | S1-204349 |  | Not used |  |  |  |  |  |  |  |  |  |  |  |  |

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| Order | Ag.Item | Tdoc # | Source | Title | Type | Spec | CR# | r | cat | Version in | Rel | WI | Summary | Discussion | Conclusion | Rev numb |

**2020 meetings: to be confirmed**

SA1#xx xx-xx Feb 20xx XXX(TBD)

AOB:

E-mail approval process: Documents to be uploaded by Wednesday 10th February. First draft to be available by Friday 12th of February. Final draft to be sent by Tuesday 16th of February.

Last allocated CR number:

|  |  |  |
| --- | --- | --- |
| Spec | CR |  |
| 22.001 |  | Principles of circuit telecommunication services supported by a PLMN |
| 22.004 |  | General on supplementary services |
| 22.011 |  | Service accessibility |
| 22.016 |  | International Mobile station Equipment Identities (IMEI) |
| 22.030 |  |  |
| 22.038 |  | (U)SIM Application Toolkit (USAT); Service description; Stage 1 |
| 22.041 |  | Operator Determined Barring (ODB) |
| 22.057 |  | Mobile Execution Environment (MExE); Service description; Stage 1 |
| 22.060 |  | General Packet Radio Service (GPRS); Service description; Stage 1 |
| 22.071 |  | Location Services (LCS); Service description; Stage 1 |
| 22.078 |  | Customised Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1 |
| 22.101 | 0566 | Service aspects; Service principles |
| 22.104 | 51 |  |
| 22.105 |  | Services and service capabilities |
| 22.115 |  | Service aspects; Charging and billing (76 pb) |
| 22.125 | 0031 |  |
| 22.129 |  | Service aspects; Handover requirements between UTRAN and GERAN or other radio systems |
| 22.140 |  | Multimedia Messaging Service (MMS); Stage 1 |
| 22.141 |  | Presence service; Stage 1 |
| 22.146 |  | Multimedia Broadcast/Multicast Service (MBMS); Stage 1 |
| 22.153 |  | Multimedia priority service |
| 22.168 |  | ETWS, replaced by PWS for later releases |
| 22.173 |  | IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1 |
| 22.174 |  | Push Service; Service aspects; Stage 1 |
| 22.179 |  | MCPTT |
| 22.182 |  | Customized Alerting Tones (CAT) requirements; Stage 1 |
| 22.220 |  | Service requirements for Home Node B (HNB) and Home eNode B (HeNB) |
| 22.228 |  | Service requirements for the IMS; Stage 1 |
| 22.233 |  | Transparent end-to-end packet-switched streaming service; Stage 1 |
| 22.234 |  | Requirements on 3GPP system to Wireless Local Area Network (WLAN) interworking |
| 22.246 |  | Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1 |
| 22.259 |  | Service requirements for Personal Network Management (PNM); Stage 1 |
| 22.261 | 454 |  |
| 22.263 | 7 |  |
| 22.268 |  | Public Warning System (PWS) requirements |
| 22.278 |  | Service requirements for the Evolved Packet System (EPS) |
| 22.279 |  | Combined Circuit Switched (CS) and IP Multimedia Subsystem (IMS) sessions; Stage 1 |
| 22.280 | 141 |  |
| 22.340 |  | IP Multimedia Subsystem (IMS) messaging; Stage 1 |
| 22.368 |  | Service requirements for Machine-Type Communications (MTC); Stage 1 |
| 22.468 |  |  |
| 22.519 |  | Business Communication Requirements (v1.0.0) |
| 22.804 | 0015 |  |
| 22.805 |  |  |
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