**3GPP TSG-SA WG1 Meeting SA1#99-e S1-222001**

**Electronic Meeting, 22 August – 1 September 2022**

Title: 2nd Draft Agenda for SA1#99-e

Ag. Item: 1.2

Source: SA1 Chairperson

Contact: Jose Almodovar

Submission Guidelines

* **Submission deadlines:**
  1. Tdoc **number** and **CR number** requests:     **Friday,** 12 August 2022, 23:00 UTC
  2. Document **submission**:                                **Friday,** 12 August 2022, 23:00 UTC
* Documents that miss either deadline will be considered as **LATE** and will be given low priority
* **Tdoc numbers and CR numbers** can be reserved and documents uploaded at <https://portal.3gpp.org/> (register, then click on the "C" next to 3GPPSA1#97e)
* Please use the document templates available at <https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_97e_EM_Feb2022/templates>
* For CRs:
  + **TEI18 CRs will only be accepted if there is no impact to Stage 2 or Stage 3 or for alignment purposes**
  + **CRs** **MUST have a CR number** allocated by the 3GPP Portal BEFORE being submitted
  + **CRs MUST have a Work Item code**, and the WI code must be valid for the specific release (e.g. a Rel-18 CR with Rel-17 WI is not permitted, except for cat. A CR)
  + Work Item Codes for the CRs are available in the [Work Plan](https://ftp.3gpp.org/Information/WORK_PLAN) (or at <http://www.3gpp.org/ftp/Specs/html-info/TSG-WG--s1--wis.htm> )

**LEGEND**

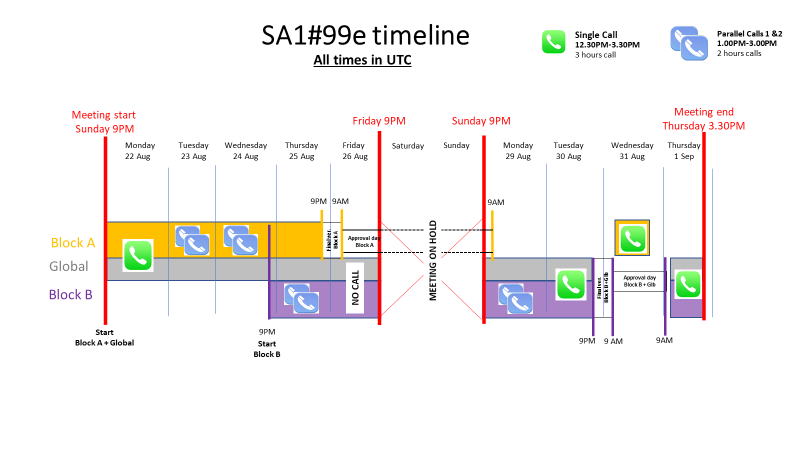
**Doc Type**: AGE (Agenda), CC (Incoming Liaison Statement Copied to SA1), Cont (Contribution), CR (Change request), , LS OUT(Outgoing Liaison Statement), TO (Incoming Liaison Statement To SA1), TR (Technical Report), TS (Technical Specification), REP (Report), WID (Work Item Description), WP (Work Plan)

**Conclusion**: Agreed, Approved, Revised to S1-22xxxx, Noted, Withdrawn, Moved to section xxx, Rejected, Postponed, Email Approval, Not Handled, Unallocated, Drafting

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Doc  Type | Tdoc number | Sourcing company(ies) | Document Title | Conclusion | Comments |
| CR | S1-19xxxx | Source | Title | Agreed / Approved |  |
| CR | S1-19xxxx | Source | Title | Revised to S1-22xxxx |  |
| CR | S1-19xxxx | Source | Title | Noted |  |
| CR | S1-19xxxx | Source | Title | Withdrawn |  |
| CR | S1-19xxxx | Source | Title | Moved to section xxx |  |
| CR | S1-19xxxx | Source | Title | Rejected |  |
| CR | S1-19xxxx | Source | Title | Postponed |  |
| CR | S1-19xxxx | Source | Title | Email Approval |  |
| CR | S1-19xxxx | Source | Title | Not Handled |  |
|  | S1-19xxxx |  |  | Unallocated / Drafting |  |

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| --- | --- | --- |
| **Global** | **Block A** | **Block B** |
| Reports (Sec. 2) | *FS\_Sensing* | *FS\_AmbientIoT* |
| LSs (Sec. 3) | *FS\_FRMCS\_Ph5* | *FS\_Metaverse* |
| WIDs (Sec. 4) | *FS\_DualSteer* | *FS\_NetShare* |
| Q.CR (Sec. 5) | *FS\_5GSAT\_Ph3* | *FS\_AIML\_Ph2* |
| Rel-17 and earlier (Sec.6) | *FS\_SOBOTS* | *FS\_UAV\_Ph3* |
| *FS\_RAILSS* |  | *FS\_RVAS* |
|  |  | *FS\_EnergyServ* |
|  |  |  |
| **Parallel calls** | | |
| **Date** | ***Call 1 (M:J.Almodovar)*** | ***Call 2 (M:Y.Nakano)*** |
| **Tuesday 23rd**  **Wednesday 24th** | *FS\_Sensing*  *FS\_SOBOTS* | *FS\_RAILSS*  *FS\_FRMCS\_Ph5*  *FS\_DualSteer*  *FS\_5GSAT\_Ph3* |
| **Thursday 25th**  **Monday 29th** | *FS\_NetShare*  *FS\_RVAS*  *FS\_EnergyServ*  *FS\_AIML\_Ph2*  *FS\_UAV\_Ph3* | *FS\_AmbientIoT*  *FS\_Metaverse* |

**SA1#99e Timeline & Blocks**



|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Opening of the meeting | | | | | | | | | | |
| Opening of the meeting at 21:00 UTC on Sunday 21 August 2022 | | | | | | | | | | |
| Guidelines e-meeting | | | | | | | | | | |
| Delegates can find the guidelines that will be followed during SA1#99e in the following link. | | | | | | | | | | |
| Agenda and scheduling | | | | | | | | | | [SA1#99e, Agenda] |
| AGE | | S1-222000 | | SA1 Chairperson | | Draft agenda for SA1#99e | | Revised to S1-222001 | |  |
| AGE | | [S1-222001](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222001.zip) | | SA1 Chairperson | | Agenda for SA1#99e | | Agreed | | Revision of S1-222000. |
| IPR, antitrust and competition laws | | | | | | | | | | |
|  | | | | **IPR call reminder**  I draw your attention to your obligations under the 3GPP Partner Organizations’ IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP.  Delegates are asked to take note that they are thereby invited:   * to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP. * to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.   **Antitrust policy Reminder**  I also draw your attention to the fact that 3GPP activities are subject to all applicable antitrust and competition laws and that compliance with said laws is therefore required of any participant of this WG meeting including the Chairperson and Vice Chairperson. In case of question I recommend that you contact your legal counsel.  The leadership shall conduct the present meeting with impartiality and in the interests of 3GPP.  Furthermore, I would like to remind you that timely submission of work items in advance of TSG/WG meetings is important to allow for full and fair consideration of such matters. | | | | | |  |
| Previous SA1 meeting report | | | | | | | | | | |
| The report of the last meeting will be approved at the start of the meeting. | | | | | | | | | | |
| REP | | [S1-222004](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222004.zip) | | ETSI | | Draft minutes of SA1#98e | | Revised to S1-222005 | |  |
| REP | | [S1-222005](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222005.zip) | | ETSI | | Draft minutes of SA1#98e | | Agreed | | Revision of S1-222004.  No presentation |
| Information for delegates | | | | | | | | | | |
| Draft TR/TS to SA plenary for information: delegates are encouraged to send draft TR/TS for information as soon as there is useful content to be reviewed. Draft TR/TS can be sent to SA plenary for information more than once.  Drafting p-CRs:   * All changes must be shown using revision marks against existing text in the draft TS/TR, otherwise p-CRs may be Noted   For more info: <ftp://ftp.3gpp.org/tsg_sa/WG1_Serv/Delegate_Guidelines_v10.doc>  When writing CRs, please follow the guidance provided in SP-220006 (Guidelines to write CRs) | | | | | | | | | | |
| Information for rapporteurs | | | | | | | | | | |
| "Beginner's guide" for writing a new TS/TR is available at <http://www.3gpp.org/specifications-groups/delegates-corner/writing-a-new-spec> (feedback on content is welcome!)  For detailed drafting guidelines, please see [TR 21.801](http://www.3gpp.org/DynaReport/21801.htm)  Rapporteurs are expected to produce a work item/study item status report for the end of the meeting under agenda item 9.2. The template is available [here](http://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_85_Tallin/templates/Template_WI_Status_Update.zip).  For draft TR/TS, the rapporteur is expected to update the draft TR/TS with all contributions agreed at the meeting before the meeting is closed. | | | | | | | | | | |
| Working agreements | | | | | | | | | | |
| None | | | | | | | | | | |
| NWM | | | | | | | | | | |
| During SA1#99e, 4 discussions will take place in the tool NWM (<https://nwm-trial.etsi.org/>). Thread, questions/comments about the use of NWM [SA1#99e, NWM]  [SA1#99e, LS S1-222066] 🡪 <https://nwm-trial.etsi.org/#/documents/7953>  [SA1#99e, LS S1-222074] 🡪 <https://nwm-trial.etsi.org/#/documents/7960>  [SA1#99e, LS S1-222073] 🡪 <https://nwm-trial.etsi.org/#/documents/7964>  [SA1#99e, FS\_Sensing\_definitions] 🡪 <https://nwm-trial.etsi.org/#/documents/7966> | | | | | | | | | | |
| Reports and action items | | | | | | | | | | e-Thread: [SA1#99e, SA1\_Reports] |
| REP | | [S1-222007](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222007.zip) | | SA1 Chairperson | | SA1-related topics at SA#96e | | Noted | |  |
| REP | | [S1-222003](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222003.zip) | | SA1 Chairperson & ETSI MCC | | Guidelines for SA1#99e (e-meeting) | | Revised to S1-222268 | | incorrect timeline |
| REP | | [S1-222268](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222268.zip) | | SA1 Chairperson & ETSI MCC | | Guidelines for SA1#99e (e-meeting) | | Noted | | Revision of S1-222003. |
| REP | | S1-222268 | | SA1 Chairperson & ETSI MCC | | Guidelines for SA1#99e (e-meeting) | | Noted | |  |
| REP | | [S1-222006](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222006.zip) | | ETSI MCC | | Work Plan presentation for SA1#99e | | Noted | |  |
| REP | | [S1-222259](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222259.zip) | | SA1 Chair | | Opening slides of SA1#99e | | Noted | | Just for info. |
| Guidelines | | | | | | | | | | |
| REP | | [S1-222008](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222008.zip) | | ETSI MCC | | MCC guidelines on CR Rules | | Noted | |  |
| REP | | [S1-222009](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222009.zip) | | ETSI MCC | | MCC guidelines on WID names | | Noted | |  |
| REP | | S1-222053 | | ETSI MCC | | Handling of MiniWIDs | | Noted | |  |
| Liaison Statements (including related contributions) | | | | | | | | | | |
| 5GC information exposure to UE | | | | | | | | | | e-Thread: [SA1#99e, LS S1-222066] |
| TO | | [S1-222066](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222066.zip) | | S2-2205286 | | LS on 5GC information exposure to UE | | Postponed | |  |
| TO | | [S1-222068](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222068.zip) | | S3-221621 | | LS reply on 5GC information exposure to UE | | Postponed | |  |
| OUT | | [S1-222150](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222150.zip) | | OPPO | | Reply on 5GC information exposure to UE | | Noted | |  |
| Cont | | [S1-222151](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222151.zip) | | OPPO | | Concerning Reply LS on 5GC information exposure to UE | | Noted | |  |
| CR | | [S1-222253](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222253.zip) | | OPPO | | 22.261v18.6.1 Clarification on requirement related to 5GC information exposure to UE | | Noted | | *WI TEI18 Rel-18 CR*0654*R- Cat B* |
| Cont | | [S1-222264](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222264.zip) | | OPPO | | New Discussion on 5GC information exposure to UE” discussion | | Noted | |  |
| OUT | | [S1-222184](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222184.zip) | | China Mobile | | Reply LS on 5GC information exposure to UE | | Noted | |  |
| OUT | | [S1-222043](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222043r4.zip) | | NTT DOCOMO | | [DRAFT] Reply LS on 5GC information exposure to UE | | Noted | |  |
| Cont | | [S1-222255](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222255.zip) | | SA1 Chair | | Daily NWM report of [SA1#99e, LS S1-222066] - https://nwm-trial.etsi.org/#/documents/7953 | | Noted | |  |
| Support for managing slice for trusted third-party owned application | | | | | | | | | | e-Thread: [SA1#99e, LS S1-222267] |
| TO | | [S1-222074](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222074.zip) | | S6-221484 | | LS on Support for managing slice for trusted third-party owned application | | Replied into 2262 | | Waiting for SA6 reply. |
| Cont | | [S1-222251](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222251r1.zip) | | Deutsche Telekom | | Reply LS to S1-222074 | | Revised to S1-222262 | |  |
| Cont | | [S1-222262](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222262.zip) | | Deutsche Telekom | | Reply LS to S1-222074 | | Agreed | | Revision of S1-222251.  Same as r1 (accepting changes) |
| TO | | [S1-222266](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222266.zip) | | S6-222340 | | Reply LS on Reply LS on Support for managing slice for trusted third-party owned application | | Replied into 2267 | |  |
| OUT | | [S1-222267](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222267.zip) | | Deutsche Telekom | | New response to Reply LS on Reply LS on Support for managing slice for trusted third-party owned application | | Agreed | |  |
| OUT | | [S1-222189](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222189r1.zip) | | China Mobile | | Reply LS on Support for managing slice for trusted third-party owned application | | Noted | |  |
| CR | | [S1-222191](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222191r2.zip) | | China Mobile | | 22.261v18.6.1 CR Requirement on different SLA for different UEs within a slice | | Noted | | *WI - Rel-18 CR*0652*R- Cat B* |
| OUT | | [S1-222027](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222027r1.zip) | | Samsung | | [DRAFT] Reply LS on Support for managing slice for trusted third-party owned application | | Noted | |  |
| CR | | [S1-222029](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222029.zip) | | Samsung | | 22.261v18.6.1 Support for managing slice for trusted third-party owned application | | Noted | | *WI EASNS Rel-18 CR*0643*R- Cat F* |
| Cont | | [S1-222028](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222028.zip) | | Samsung | | Discussion on LS on Support for managing slice for trusted third-party owned application | | Noted | |  |
| Cont | | S1-222256 | | SA1 Chair | | Daily NWM report of [SA1#99e, LS S1-222074] - https://nwm-trial.etsi.org/#/documents/7960 | | Noted | | Orig and r1 available for info. |
| DN energy efficiency data analytics | | | | | | | | | | NWM: [SA1#99e, LS S1-222073] |
| TO | | [S1-222073](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222073.zip) | | S6-221347 | | LS on DN energy efficiency data analytics | | Postponed | |  |
| CC | | [S1-222071](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222071.zip) | | S5-224342 | | Reply LS on DN energy efficiency data analytics | | Postponed | |  |
| OUT | | [S1-222186](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222186.zip) | | China Mobile | | Reply LS on DN energy efficiency data analytics | | Noted | |  |
| Cont | | [S1-222257](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222257.zip) | | SA1 Chair | | Daily NWM report of [SA1#99e, LS S1-222073] - https://nwm-trial.etsi.org/#/documents/7964 | | Noted | |  |
| Issues Network Slice information delivery to a 3rd party | | | | | | | | | | NWM: [SA1#99e, LS S1-222072] |
| TO | | [S1-222072](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222072.zip) | | S6-220975 | | LS on Issues Network Slice information delivery to a 3rd party | | Noted | | Already answered during SA1#98e. |
| Proposed to Note | | | | | | | | | | e-Thread: [SA1#99e, LS ToNote] |
| TO | | [S1-222063](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222063.zip) | | R2-2206389 | | LS on GNSS integrity | | Noted | |  |
| TO | | [S1-222062](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222062.zip) | | LIAISE-531-Answer-to LS-520-03 | | Response to SP-220347: Alignment concerning 5G-RG requirements and its remote management | | Noted | |  |
| TO | | [S1-222075](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222075.zip) | | SG2-LS4-TD066-R2-P | | LS on initiation of new work item ITU-T TR.Carrier-Switching: Technical report on the carrier switching of SIM and e-sims for enterprises in M2M/IoT | | Noted | |  |
| CC | | [S1-222076](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222076.zip) | | UPG03\_107r3- Reply LS on multiparty Real-time Text \_RTT\_ inconference cal | | Reply LS on multiparty Real-time Text (RTT) in conference calling | | Noted | |  |
| CC | | [S1-222058](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222058.zip) | | C1-223991 | | Reply LS on multiparty Real-time Text (RTT) in conference calling | | Noted | |  |
| CC | | [S1-222059](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222059.zip) | | C1-224297 | | LS on the deactivation of access stratum due to discontinuous coverage | | Noted | |  |
| CC | | [S1-222060](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222060.zip) | | C4-223048 | | Reply LS on multiparty Real-time Text (RTT) in conference calling | | Noted | |  |
| CC | | [S1-222061](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222061.zip) | | C6-220305 | | LS on Satellite E-UTRAN on PLMN selector with Access Technology | | Noted | |  |
| CC | | [S1-222064](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222064.zip) | | S2-2204744 | | LS OUT on Indication of Network Assisted Positioning method | | Noted | |  |
| CC | | [S1-222065](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222065.zip) | | S2-2204962 | | LS on removal of “Indication of country of UE location” | | Noted | |  |
| CC | | [S1-222067](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222067.zip) | | S3-221254 | | Reply LS on Indication of Network Assisted Positioning method | | Noted | |  |
| CC | | [S1-222069](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222069.zip) | | S5-223516 | | Reply LS on Issues Network Slice information delivery to a 3rd party | | Noted | |  |
| CC | | [S1-222070](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222070.zip) | | S5-223521 | | LS Reply on network slice LCM consumption and use case | | Noted | |  |
| New Work Items (including related contributions, studies exceptionally) | | | | | | | | | | |
| Rel19 SIDs | | | | | | | | | | |
| Cont | | [S1-222160](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222160.zip) | | China Mobile | | Revised SID on UAV Phase 3 | | Revised to S1-222296 | | Moved from 7.9  2160r1 agreed (original dates in sect 5 and include rapporteur in sec5) |
| Cont | | [S1-222296](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222296.zip) | | China Mobile | | Revised SID on UAV Phase 3 | | Agreed | | *Moved from 7.9*  *Same as 2160r1* |
| Mini-WIDs | | | | | | | | | | |
| PIN\_ph2 | | | | | | | | | | e-Thread: [SA1#99e, WID PIN\_ph2] |
| WID | | [S1-222050](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222050.zip) | | vivo | | New WID on Personal IoT Networks phase 2 | | Noted | | 2050r5 for approval day  o: Nokia |
| CR | | [S1-222054](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222054.zip) | | vivo | | 22.101v18.4.0 Visiting a PIN after remote provisioning within home PIN | | Noted | | *WI PIN\_ph2 Rel-19 CR*0585*R- Cat B* |
| CR | | [S1-222260](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222260r5.zip) | | vivo | | 22.261v168.6.1 Visiting a PIN after remote provisioning within home PIN | | Noted | | *WI PIN\_ph2 Rel-19 CR*00655*R- Cat B*  *2260r6* for approval day  o: Nokia |
| eNEC\_CIP | | | | | | | | | | e-Thread: [SA1#99e, WID eNEC\_CIP ] |
| WID | | [S1-222051](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222051.zip) | | vivo | | New WID on enhanced network exposure capability with critical information preserving | | Noted | | r1 uploaded |
| Cont | | [S1-222052](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222052.zip) | | vivo | | Discussion on enhanced network exposure capability with critical information preserving | | Noted | |  |
| CR | | [S1-222055](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222055.zip) | | vivo | | 22.101v18.4.0 Support for preserving critical information exposed to a 3rd party | | Noted | | *WI eNEC\_CIP Rel-19 CR*0586*R- Cat B* |
| CR | | [S1-222056](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222056.zip) | | vivo | | 22.261v18.6.1 Support for critical information exposed in a concealed way | | Noted | | *WI eNEC\_CIP Rel-19 CR*0644*R- Cat B* |
| MINT\_Ph2 | | | | | | | | | | e-Thread: [SA1#99e, WID MINT\_Ph2] |
| WID | | [S1-222080](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222080r1.zip) | | China Telecom | | New WID on Support for Minimization of Service Interruption during Core Network Failure | | Revised to S1-222345 | | 2080r1 agreed |
| WID | | [S1-222345](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222345.zip) | | China Telecom | | New WID on Support for Minimization of Service Interruption during Core Network Failure | | Agreed | | Revision of S1-222080.  *Same as 2080r1*  No presentation |
| Cont | | [S1-222081](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222081.zip) | | China Telecom | | Discussion on Support for Minimization of Service Interruption during Core Network Failure | | Noted | |  |
| CR | | [S1-222102](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222102r5.zip) | | China Telecom | | 22.261v18.6.1 New requirements on MINT\_Ph2 | | Revised to S1-222346 | | *WI* MINT\_Ph2*Rel-19 CR*0645*R- Cat B*  *2102r6* agreed |
| CR | | [S1-222346](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222346.zip) | | China Telecom | | 22.261v18.6.1 New requirements on MINT\_Ph2 | | Agreed | | *WI MINT\_Ph2Rel-19 CR0645R- Cat B*  Revision of S1-222102.  *Same as 2102r6*  No presentation |
| eCAT&CRS | | | | | | | | | | e-Thread: [SA1#99e, WID eCAT&CRS] |
| WID | | [S1-222085](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222085.zip) | | China Mobile | | enhanced Customized Alerting Tones and Customized Ringing Signal | | Noted | |  |
| Cont | | [S1-222086](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222086.zip) | | China Mobile | | Motivation of supporting 5G enhanced Customized Alerting Tones (CAT) and Customized Ringing Signal (CRS) | | Noted | |  |
| CR | | [S1-222087](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222087r1.zip) | | China Mobile | | 22.183v17.0.0 CRS user interface function component and message processing | | Noted | | *WI eCAT&CRS Rel-19 CR*0006*R- Cat B*  Wrong format in cover page |
| CR | | [S1-222088](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222088.zip) | | China Mobile | | 22.182v17.0.0 CAT user interface function component and message processing | | Noted | | *WI eCAT&CRS Rel-19 CR*0027*R- Cat B*  Wrong format in cover page |
| MPS4msg | | | | | | | | | | e-Thread: [SA1#99e, WID MPS4msg] |
| WID | | [S1-222092](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222092r2.zip) | | Peraton Labs | | New WID on MPS for Messaging services | | Revised to S1-222347 | | R3 agreed (remove in EPS and 5GS from first sentence objectives + Note from the CR + target completion Sa#98) |
| WID | | [S1-222347](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222347.zip) | | Peraton Labs | | New WID on MPS for Messaging services | | Agreed | | Revision of S1-222092.  *Same as 2092r3* |
| CR | | [S1-222093](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222093r3.zip) | | Peraton Labs | | 22.153v18.1.0 MPS for Messaging services | | Revised to S1-222348 | | *WI MPS4msg Rel-19 CR*0056*R- Cat B*  *2093r4 agreed (remove yellow highlights)* |
| CR | | [S1-222348](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222348.zip) | | Peraton Labs | | 22.153v18.1.0 MPS for Messaging services | | Agreed | | *WI MPS4msg Rel-19 CR0056R- Cat B*  Revision of S1-222093.  *Same as 2093r4* |
| DTTB4MBS | | | | | | | | | | e-Thread: [SA1#99e, WID DTTB4MBS] |
| WID | | [S1-222133](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222133r10.zip) | | Saankhya Labs, IIT Bombay | | Usage of Non-3GPP DTT Broadcast Networks for Multicast/Broadcast Services (MBS) in 5GS | | Revised to S1-222349 | | 2133r11 agreed (remove WID on from title) |
| WID | | [S1-222349](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222349.zip) | | Saankhya Labs, IIT Bombay | | Usage of Non-3GPP DTT Broadcast Networks for Multicast/Broadcast Services (MBS) in 5GS | | Agreed | | Revision of S1-222133.  *Same as 2133r11*  *No presentation* |
| CR | | [S1-222131](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222131r6.zip) | | Saankhya Labs, IIT Bombay, Hewlett-Packard Enterprise, Ligado Networks, One Media 3.0, Fraunhofer IIS, CEWiT, Tejas Networks, IIT Kanpur, IIT Madras, IIT Hyderabad, IIT Kharagpur | | 22.261v18.1.0 Usage of Non-3GPP DTT Broadcast Networks for Multicast/Broadcast Services in 5GS | | Revised to S1-222350 | | *WI* DTTB4MBS *Rel-19 CR*0639*R1 Cat B*  2131r10 agreed |
| CR | | [S1-222350](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222350.zip) | | Saankhya Labs, IIT Bombay, Hewlett-Packard Enterprise, Ligado Networks, One Media 3.0, Fraunhofer IIS, CEWiT, Tejas Networks, IIT Kanpur, IIT Madras, IIT Hyderabad, IIT Kharagpur | | 22.261v18.1.0 Usage of Non-3GPP DTT Broadcast Networks for Multicast/Broadcast Services in 5GS | | Agreed | | *WI DTTB4MBS Rel-19 CR0639R1 Cat B*  Revision of S1-222131.  *Same as 2131r10*  *No presentation* |
| SAT4MBS | | | | | | | | | | e-Thread: [SA1#99e, WID SAT4MBS] |
| WID | | [S1-222132](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222132.zip) | | Saankhya Labs, IIT Bombay | | Usage of Non-3GPP NTN for Multicast Broadcast Services (MBS) in 5GS | | Noted | | 2132r6 for approval day  o: Qualcomm |
| CR | | [S1-222130](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222130r5.zip) | | Saankhya Labs, IIT Bombay, Ligado Networks, One Media 3.0, Fraunhofer IIS, CEWiT, Tejas Networks, IIT Kanpur, IIT Madras, IIT Hyderabad, IIT Kharagpur | | 22.261v18.1.0 Usage of Non-3GPP NTN (Satellite access network) for Multicast Broadcast Services in 5GS | | Noted | | *WI* SAT4MBS *Rel-19 CR*0638*R1 Cat B*  *2130r7* for approval day  o: Qualcomm |
| MeasureData | | | | | | | | | | e-Thread: [SA1#99e, WID MeasureData] |
| WID | | [S1-222134](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222134r3.zip) | | ZTE, CEPRI, China Telecom, China Unicom | | New WID on Measurement Data Collection | | Revised to S1-222351 | | 2134r4 (Adding a note for only NPN in objectives) |
| WID | | [S1-222351](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222351.zip) | | ZTE, CEPRI, China Telecom, China Unicom | | New WID on Measurement Data Collection | | Endorsed | | Revision of S1-222134.  *Same as 2134r4*  *No presentation* |
| Cont | | [S1-222135](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222135.zip) | | ZTE | | Discussion paper for Measurement Data Collection | | Noted | |  |
| CR | | [S1-222136](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222136r8.zip) | | ZTE | | 22.261v18.1.0 New requirements for QoS monitoring | | Revised to S1-222352 | | *WI MeasureData* *Rel-19 CR*0647*R- Cat B*  2136r8 is endorsed as the base of discussion. Last controversial issue to resolve is the limitation of requirements to direct network connection in NPNs. |
| CR | | [S1-222352](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222352.zip) | | ZTE | | 22.261v18.1.0 New requirements for QoS monitoring | | Endorsed | | *WI MeasureData Rel-19 CR0647R- Cat B*  Revision of S1-222136.  *Same as 2136r8*  *No presentation* |
| MultiRelay | | | | | | | | | | e-Thread: [SA1#99e, WID MultiRelay] |
| WID | | [S1-222172](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222172r6.zip) | | China Telecom | | WID on Multi-path relay | | Revised to S1-222353 | | 2172r7 (correct acronym) |
| WID | | [S1-222353](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222353.zip) | | China Telecom | | WID on Multi-path relay | | Agreed | | Revision of S1-222172.  *Same as 2172r7*  *No presentation* |
| Cont | | [S1-222174](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222174.zip) | | China Telecom | | Discussion paper on MultiRelay | | Noted | |  |
| CR | | [S1-222173](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222173r7.zip) | | China Telecom | | 22.261v18.6.1 Add requirements on multi-path relay UEs | | Revised to S1-222354 | | *WI MultiRelay Rel-19 CR*0651*R- Cat B*  *2173r6* agreed |
| CR | | [S1-222354](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222354.zip) | | China Telecom | | 22.261v18.6.1 Add requirements on multi-path relay UEs | | Agreed | | *WI MultiRelay Rel-19 CR0651R- Cat B*  Revision of S1-222173.  *Same as 2173r6*  *No presentation* |
| DSHE | | | | | | | | | | e-Thread: [SA1#99e, WID DSHE] |
| WID | | [S1-222137](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222137r1.zip) | | China Telecom | | New WID on Discovery of Service Hosting Environment | | Noted | |  |
| Cont | | [S1-222139](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222139.zip) | | China Telecom | | Discussion on discovery of Service Hosting Environment | | Noted | |  |
| CR | | [S1-222138](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222138r1.zip) | | China Telecom | | 22.261v18.6.1 Description and requirements on discovery of Service Hosting Environment | | Noted | | *WI DSHE* *Rel-19 CR*0648*R- Cat B* |
| DualAccessLCS | | | | | | | | | | e-Thread: [SA1#99e, WID DualAccessLCS] |
| WID | | [S1-222164](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222164.zip) | | CATT | | New WID on 5G Positioning Service for UE connecting to Dual 3GPP access | | Noted | |  |
| Cont | | [S1-222148](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222148.zip) | | CATT | | Discussion on requirements for positioning service for UEs connecting via dual 3GPP access | | Noted | |  |
| CR | | [S1-222171](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222171r3.zip) | | CATT | | 22.261v18.6.1 Positioning service for UE connecting to dual 3GPP access networks | | Noted | | *WI DualAccessLCS Rel-19 CR*0650*R- Cat B*  r1 uploaded |
| Quality improvement contributions Quality improvements to requirements in TRs or TSs are encouraged (pCRs or CRs). In order to allow delegates to provide quality improvement contributions for work/study items where they do not want to attend drafting sessions, contributions submitted to this agenda item are handled in plenary. | | | | | | | | | | |
| CR | | [S1-222203](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222203.zip) | | Huawei | | 22.261v18.6.1 Clean-up of the references for quality improvement | | Revised to S1-222297 | | **e-Thread: [SA1#99e, CR\_Quality\_1]**  *WI TEI18 Rel-18 CR*0653*R- Cat B*  2203r1 agreed |
| CR | | [S1-222297](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222297.zip) | | Huawei | | 22.261v18.6.1 Clean-up of the references for quality improvement | | Agreed | | **e-Thread: [SA1#99e, CR\_Quality\_1]**  *WI TEI18 Rel-18 CR*0653*R- Cat B*  **Revision of S1-222203.**  Same as 2203r1 |
| Rel-18 and earlier contributions | | | | | | | | | | |
| Rel-18 correction and clarification CRs | | | | | | | | | | |
| CR | | [S1-222128](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222128.zip) | | Kyonggi University | | Addition of a location related requirement supporting various positioning accuracy | | Noted | | ***e-Thread:* [SA1#99e, CR\_Rel18\_1]** |
| CR | | [S1-222248](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222248.zip) | | BT | | 22.101v18.4.0 Emergency Calls- Adding two extra types | | Noted | | ***e-Thread:* [SA1#99e, CR\_Rel18\_3]**  *WI TEI18 Rel-18 CR*0587*R- Cat B* |
| Release 17 Alignment CRs (aligning Stage 1 specifications with what has been implemented in Stage 2 and 3) As Release 17 is almost frozen (stage 2 already frozen), alignment CRs are appreciated. | | | | | | | | | | |
| CR | | [S1-222126](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222126r1.zip) | | ZTE | | 22.261v17.10.0 Adding requirements on maximum capacity of network slicing | | Revised to S1-222298 | | *WI* SMARTER, SMARTER-Ph2 *Rel-17 CR*0646*R- Cat B*  2126r3 agreed |
| CR | | [S1-222298](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222298.zip) | | ZTE | | 22.261v17.10.0 Adding requirements on maximum capacity of network slicing | | Agreed | | *WI SMARTER, SMARTER-Ph2 Rel-17 CR0646R- Cat B*  Revision of S1-222126.  *Same as 2126r3* |
| CR | | [S1-222146](E:\\TSGS1_99e_EM_Aug2022\\Docs\\S1-222146.zip) | | ZTE | | 22.261v18.6.1 Adding requirements on maximum capacity of network slicing | | Revised to S1-222299 | | ***e-Thread:* [SA1#99e, CR\_Rel18\_2]**  *WI* EASNS *Rel-18 CR*0649*R- Cat A*  2146r5 agreed |
| CR | | [S1-222299](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222299.zip) | | ZTE | | 22.261v18.6.1 Adding requirements on maximum capacity of network slicing | | Agreed | | ***e-Thread: [SA1#99e, CR\_Rel18\_2]***  *WI EASNS Rel-18 CR0649R- Cat A*  **Revision of S1-222146.**  Same as *2146r5* |
| Rel-17 and earlier CRs (other than alignment) | | | | | | | | | | |
| CR | | [S1-222035](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222035.zip) | | ETRI, KT Corp, SK Telecom, LG Uplus | | 22.268v17.0.0 Additional KPAS specific requirements | | Noted | | ***e-Thread:* [SA1#99e, CR\_Others\_1]**  *WI*  *Rel-17 CR*0075*R- Cat B* |
| Rel19 contributions | | | | | | | | | | |
| FS\_RAILSS: Study on Supporting of Railway Smart Station Services [[SP-190838](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_85/Docs/SP-190838.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Andrew Min-gyu Han (Hansung University)  Latest version: [TR22.890v0.5.0](https://www.3gpp.org/ftp/Specs/archive/22_series/22.890/22890-050.zip)  Target completion date: SA#91 (03/2021)  Percentage completion: 45% | | | | | | | | **Details e-mail discussion** :  Moderator: Mona Mustapha  # e-threads: 7  **Global** | | |
| Use Cases Update | | | | | | | | | | |
| Cont | | [S1-222245](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222245.zip) | | Kyonggi University | | Pseudo-CR on <minor editorial corrections on Clauses 7.1 and 7.3 > | | Revised to S1-222355 | | **e-Thread: [SA1#99e, FS\_RAILSS\_1]**  2245r3 agreed |
| Cont | | [S1-222355](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222355.zip) | | Kyonggi University | | Pseudo-CR on <minor editorial corrections on Clauses 7.1 and 7.3 > | | Agreed | | ***e-Thread: [SA1#99e, FS\_RAILSS\_1]***  **Revision of S1-222245.**  Same as*2245r3*  *No presentation* |
| New Use Cases | | | | | | | | | | |
| Cont | | [S1-222224](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222224r6.zip) | | Hansung University, LGUplus, KT, ETRI | | Pseudo-CR on a use case for the operation of platform screen doors of the smart railway | | Revised to S1-222356 | | **e-Thread: [SA1#99e, FS\_RAILSS\_2]**  2224r7 agreed ( PR should say an emergency alert + remove highlights) |
| Cont | | [S1-222356](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222356.zip) | | Hansung University, LGUplus, KT, ETRI | | Pseudo-CR on a use case for the operation of platform screen doors of the smart railway | | Agreed | | ***e-Thread: [SA1#99e, FS\_RAILSS\_2]***  **Revision of S1-222224.**  *Same as 2224r7*  *No presentation* |
| Cont | | [S1-222225](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222225r6.zip) | | Hansung University, LGUplus, KT, ETRI | | a use case of automatic monitoring of railway smart station | | Revised to S1-222357 | | **e-Thread: [SA1#99e, FS\_RAILSS\_3]**  2225r8 (with right figure and no highlights) |
| Cont | | [S1-222357](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222357.zip) | | Hansung University, LGUplus, KT, ETRI | | a use case of automatic monitoring of railway smart station | | Agreed | | ***e-Thread: [SA1#99e, FS\_RAILSS***  **Revision of S1-222225.**  *Same as 2225r8*  *No presentation* |
| Cont | | [S1-222228](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222228.zip) | | Hansung University, LGUplus, KT, ETRI | | A use case of railway smart station telemetry | | Noted | | **e-Thread: [SA1#99e, FS\_RAILSS\_4]** |
| Cont | | [S1-222229](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222229.zip) | | Hansung University, LGUplus, KT, ETRI | | A use case of user experience of railway smart station | | Noted | | **e-Thread: [SA1#99e, FS\_RAILSS\_5]** |
| Cont | | [S1-222231](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222231.zip) | | Hansung University, LGUplus, KT, ETRI | | A use case of railway smart station announcements | | Noted | | **e-Thread: [SA1#99e, FS\_RAILSS\_6]** |
| Others | | | | | | | | | | |
| Cont | | [S1-222233](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222233r6.zip) | | Hansung University, LGUplus, KT, ETRI | | Pseudo-CR on conclusion and recommendations for RAILSS | | Revised to S1-222358 | | **e-Thread: [SA1#99e, FS\_RAILSS\_7]**  2233r6 agreed |
| Cont | | [S1-222358](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222358.zip) | | Hansung University, LGUplus, KT, ETRI | | Pseudo-CR on conclusion and recommendations for RAILSS | | Agreed | | ***e-Thread: [SA1#99e, FS\_RAILSS\_7]***  **Revision of S1-222233.**  *Same as 2233r6*  *No presentation* |
| Cont | | [S1-222254](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222254r7.zip) | | Hansung University | | FS\_RAILSS consolidated requirements | | Revised to S1-222359 | | **e-Thread: [SA1#99e, FS\_RAILSS\_8]**  2254r7 agreed |
| Cont | | [S1-222359](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222359.zip) | | Hansung University | | FS\_RAILSS consolidated requirements | | Agreed | | ***e-Thread: [SA1#99e, FS\_RAILSS\_8]***  **Revision of S1-222254.**  *Same as 2254r7*  *No presentation* |
| TR | | [S1-222261](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222261.zip) | | Rapporteur (Hansung University) | | TR 22.890 v0.6.2 | | Agreed | | **e-Thread:** **[SA1#99e, FS\_RAILSS\_9]** |
| Cont | | [S1-222265](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222265r1.zip) | | Rapporteur (Hansung university) | | pCR on TR clean-up | | Revised to S1-222360 | | **e-Thread: [SA1#99e, FS\_RAILSS\_9]**  r2 agreed |
| Cont | | [S1-222360](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222360.zip) | | Rapporteur (Hansung university) | | pCR on TR clean-up | | Agreed | | ***e-Thread: [SA1#99e, FS\_RAILSS\_9]***  **Revision of S1-222265.**  *Same as 2265r2*  *No presentation* |
| FS\_RAILSS Output | | | | | | | | | | |
| TR | [S1-222270](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222270.zip) | | Rapporteur (Hansung University) | | Cover sheet for approval of the TR22.890 | | Agreed | | | tdoc will be opened during approval day |
| TR | S1-222271 | | Rapporteur (Hansung University) | | TR22.890v0.7.0 Study on Supporting of Railway Smart Station Services | | Agreed | | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| FS\_Sensing: Study on Integrated Sensing and Communication [[SP-220717](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220717.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Vasil Aleksiev (Deutsche Telekom)  Latest version: TR 22.837  Target completion date: SA#100 (06/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Jose Almodovar  # e-threads: 34, #NWM: 1  **Block A** | | |
| General (discussion on NWM) | | | | | | | | | | NWM: [SA1#99e, FS\_Sensing\_definitions] |
| Cont | | [S1-222110](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222110.zip) | | Xiaomi | | Sensing definition | | Noted | |  |
| Cont | | [S1-222226](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222226.zip) | | T-Mobile | | Pseudo-CR on introducing wireless sensing definition | | Noted | |  |
| Cont | | [S1-222237](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222237.zip) | | Apple | | 'Sensing Measurement', 'Sensing Result' and 'Integrated Sensing and Communication' definitions | | Revised to S1-222300 | | 2237r5 agreed (**sensing result**: the information derived from processing sensing measurements data.  NOTE:   Examples of sensing result are characteristics of an object or environment, etc.)) |
| Cont | | [S1-222300](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222300.zip) | | Apple | | 'Sensing Measurement', 'Sensing Result' and 'Integrated Sensing and Communication' definitions | | Agreed | | Revision of S1-222237.  Same as 2237r5 |
| Cont | | [S1-222258](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222258.zip) | | SA1 Chair | | Daily NWM report of [SA1#99e, FS\_Sensing\_definitions] - https://nwm-trial.etsi.org/#/documents/7966 | | Noted | | Just for info. |
| General (2) | | | | | | | | | | |
| Cont | | [S1-222222](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222222r1.zip) | | T-Mobile | | Pseudo-CR on scope of the Sensing study item | | Revised to S1-222301 | | **e-Thread: [SA1#99e, FS\_Sensing\_1]**  2222r3 for approval day |
| Cont | | [S1-222301](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222301.zip) | | T-Mobile | | Pseudo-CR on scope of the Sensing study item | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_1]***  **Revision of S1-222222.**  *Same as 2222r3* |
| Cont | | [S1-222209](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222209.zip) | | Huawei | | pCR on Sensing service KPI table | | Merge into 2108r3 | | **e-Thread: [SA1#99e, FS\_Sensing\_2]** |
| Cont | | [S1-222108](file:///E:\TSGS1_99e_EM_Aug2022\docs\S1-222108r4.zip) | | Nokia, Nokia Shanghai Bell | | Pseudo-CR on consolidated potential KPIs for sensing scenarios | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_2]**  2108r4 for approval day |
| Use Cases Update | | | | | | | | | | |
| Cont | | [S1-222176](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222176r4.zip) | | OPPO | | Update for Use case of intruder detection in smart home | | Revised to S1-222302 | | **e-Thread: [SA1#99e, FS\_Sensing\_3]**  2176r5 (adding editor’s note FFS for the 1st requirement) |
| Cont | | [S1-222302](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222302.zip) | | OPPO | | Update for Use case of intruder detection in smart home | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_3]***  **Revision of S1-222176.**  *Same as 2176r5* |
| Cont | | [S1-222238](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222238.zip) | | Apple | | Indication for UE sensing intention | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_3]** |
| Cont | | [S1-222106](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222106.zip) | | Huawei, CAICT | | Update of Clause 5.2\_use case of intrusion detection on a highway | | Revised to S1-222303 | | **e-Thread: [SA1#99e, FS\_Sensing\_4]**  2106r3 for approval day |
| Cont | | [S1-222303](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222303.zip) | | Huawei, CAICT | | Update of Clause 5.2\_use case of intrusion detection on a highway | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_4]***  **Revision of S1-222106.**  Same as*2106r3* |
| Cont | | [S1-222167](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222167.zip) | | China Telecom | | Update of Use Case of Rainfall Monitoring | | Revised to S1-222304 | | **e-Thread: [SA1#99e, FS\_Sensing\_5]**  2167r1 for approval day |
| Cont | | [S1-222304](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222304.zip) | | China Telecom | | Update of Use Case of Rainfall Monitoring | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_5]***  **Revision of S1-222167.**  *Same as 2167r1* |
| New Use Cases | | | | | | | | | | |
| Cont | | [S1-222030](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222030r7.zip) | | Samsung | | 22.837 pCR - Transparent Sensing Use Case | | Revised to S1-222305 | | **e-Thread: [SA1#99e, FS\_Sensing\_6]**  2030r7 agreed |
| Cont | | [S1-222305](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222305.zip) | | Samsung | | 22.837 pCR - Transparent Sensing Use Case | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_6]***  **Revision of S1-222030.**  *Same as 2030r7*  *No presentation* |
| Cont | | [S1-222057](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222057r4.zip) | | Lenovo | | 22.837 pCR - Sensing Use Case for Walking assistance | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_7]**  2057r4 for approval day  o: DT, Vodafone |
| Cont | | [S1-222094](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222094.zip) | | NTT DOCOMO | | Pseudo-CR on Use Case of crowd estimation in smart city | | Merge into 2157r6 | | **e-Thread: [SA1#99e, FS\_Sensing\_8]** |
| Cont | | [S1-222095](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222095.zip) | | NTT DOCOMO | | Pseudo-CR on Use case of sensing for flooding in smart cities | | Revised to S1-222306 | | **e-Thread: [SA1#99e, FS\_Sensing\_9]**  2095r2 for approval day |
| Cont | | [S1-222306](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222306.zip) | | NTT DOCOMO | | Pseudo-CR on Use case of sensing for flooding in smart cities | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_9]***  **Revision of S1-222095**  *Same as 2095r2*  *No presentation* |
| Cont | | [S1-222096](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222096.zip) | | NTT DOCOMO | | Pseudo-CR on Use case of site monitoring in smart home | | Revised to S1-222307 | | **e-Thread: [SA1#99e, FS\_Sensing\_10]**  2096r3 for approval day |
| Cont | | [S1-222307](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222307.zip) | | NTT DOCOMO | | Pseudo-CR on Use case of site monitoring in smart home | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_10]***  **Revision of S1-222096.**  *Same as 2096r3*  *No presentation* |
| Cont | | [S1-222097](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222097r1.zip) | | NTT DOCOMO | | Pseudo-CR on Use case of sensing for railway intrusion detection | | Revised to S1-222308 | | **e-Thread: [SA1#99e, FS\_Sensing\_11]**  2097r2 for approval day |
| Cont | | [S1-222308](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222308.zip) | | NTT DOCOMO | | Pseudo-CR on Use case of sensing for railway intrusion detection | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_11]***  **Revision of S1-222097.**  *Same as 2097r2*  *No presentation* |
| Cont | | [S1-222107](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222107.zip) | | Huawei, CAICT | | New use case\_Sensing for railway intrusion detection | | Merged into 2097r1 | | **e-Thread: [SA1#99e, FS\_Sensing\_11]** |
| Cont | | [S1-222098](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222098r1.zip) | | Qualcomm | | Sensing-assisted automotive maneuvering and navigation | | Revised to S1-222309 | | **e-Thread: [SA1#99e, FS\_Sensing\_12]**  2098r8 for approval day |
| Cont | | [S1-222309](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222309.zip) | | Qualcomm | | Sensing-assisted automotive maneuvering and navigation | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_12]***  **Revision of S1-222098.**  *Same as 2098r8*  *No presentation* |
| Cont | | [S1-222099](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222099r8.zip) | | Qualcomm | | Automated Guided Vehicle detection and tracking in factories | | Revised to S1-222310 | | **e-Thread: [SA1#99e, FS\_Sensing\_13]**  2099r8 agreed |
| Cont | | [S1-222310](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222310.zip) | | Qualcomm | | Automated Guided Vehicle detection and tracking in factories | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_13]***  **Revision of S1-222099.**  *Same as 2099r8*  *No presentation* |
| Cont | | [S1-222100](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222100r8.zip) | | Qualcomm | | UAV Flight Trajectory Tracing | | Revised to S1-222311 | | **e-Thread: [SA1#99e, FS\_Sensing\_14]**  2100r9 agreed (“[P.R 5.y.6-2] The 5G system shall be able to support means to ~~configure and~~ authorize RAN entities..”) |
| Cont | | [S1-222311](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222311.zip) | | Qualcomm | | UAV Flight Trajectory Tracing | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_14]***  **Revision of S1-222100.**  *Same as 2100r9*  *No presentation* |
| Cont | | [S1-222109](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222109.zip) | | Huawei, CAICT | | New use case\_Sensing for road traffic monitoring | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_15]** |
| Cont | | [S1-222115](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222115r2.zip) | | Xiaomi | | Vehicle Sensing for ADAS | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_16]**  2115r2 for approval day  o: DT, Vodafone |
| Cont | | [S1-222116](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222116.zip) | | Xiaomi | | RAN Sensing for real-time map service assisted vehicle driving | | Merged into 2120r1 | | **e-Thread: [SA1#99e, FS\_Sensing\_17]** |
| Cont | | [S1-222120](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222120.zip) | | ZTE | | New UC: Guaranteed sensing in NLOS scenario | | Revised to S1-222312 | | **e-Thread: [SA1#99e, FS\_Sensing\_17]**  2120r6 for approval day |
| Cont | | [S1-222312](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222312.zip) | | ZTE | | New UC: Guaranteed sensing in NLOS scenario | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_17]***  **Revision of S1-222120.**  *Same as 2120r6*  *No presentation* |
| Cont | | [S1-222117](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222117.zip) | | Xiaomi | | In vehicle sensing for life detection | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_18]** |
| Cont | | [S1-222118](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222118.zip) | | ZTE | | New UC: Network assisted sensing to avoid UAV collision | | Revised to S1-222313 | | **e-Thread: [SA1#99e, FS\_Sensing\_19]**  2118r6 for approval day |
| Cont | | [S1-222313](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222313.zip) | | ZTE | | New UC: Network assisted sensing to avoid UAV collision | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_19]***  **Revision of S1-222118.**  *Same as 2118r6*  *No presentation* |
| Cont | | [S1-222119](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222119.zip) | | ZTE | | New UC: Detection of UAVs illegal flying in a restricted area | | Merged into 2155r1 | | **e-Thread: [SA1#99e, FS\_Sensing\_20]** |
| Cont | | [S1-222155](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222155r6.zip) | | China Mobile | | New use case\_Sensing for UAV intrusion detection | | Revised to S1-222314 | | **e-Thread: [SA1#99e, FS\_Sensing\_20]**  2155r6 |
| Cont | | [S1-222314](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222314.zip) | | China Mobile | | New use case\_Sensing for UAV intrusion detection | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_20]***  **Revision of S1-222155.**  *Same as 2155r6*  *No presentation* |
| Cont | | [S1-222145](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222145.zip) | | Huawei | | New use case: Sensing for parking space determination | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_21]**  2145r5 for approval day  o: DT, Ericsson, Telefonica |
| Cont | | [S1-222147](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222147.zip) | | Huawei | | New Use case: Immersive experience based on Sensing | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_22]**  2147r4 for approval day  o: DT, Vodafone, Ericsson |
| Cont | | [S1-222157](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222157r8.zip) | | China Mobile | | New use case\_Sensing for Tourist spot traffic management | | Revised to S1-222315 | | **e-Thread: [SA1#99e, FS\_Sensing\_23]**  2157r8 agreed |
| Cont | | [S1-222315](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222315.zip) | | China Mobile | | New use case\_Sensing for Tourist spot traffic management | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_23]***  **Revision of S1-222157.**  *Same as 2157r8*  *No presentation* |
| Cont | | [S1-222199](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222199r7.zip) | | vivo | | Use case of sleep monitoring | | Revised to S1-222316 | | **e-Thread: [SA1#99e, FS\_Sensing\_24]**  2199r8 agreed (Delete editor’s note regarding KPI table) |
| Cont | | [S1-222316](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222316.zip) | | vivo | | Use case of sleep monitoring | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_24]***  **Revision of S1-222199.**  *Same as 2199r8*  *No presentation* |
| Cont | | [S1-222200](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222200r6.zip) | | vivo | | Use case of sports monitoring | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_25]**  2200r6 for approval day  o: DT, Ericsson |
| Cont | | [S1-222239](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222239.zip) | | Apple | | Use case on Protection of Sensing Information | | Revised to S1-222317 | | **e-Thread: [SA1#99e, FS\_Sensing\_26]**  2239r4 for approval day |
| Cont | | [S1-222317](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222317.zip) | | Apple | | Use case on Protection of Sensing Information | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_26]***  **Revision of S1-222239.**  *Same as 2239r4*  *No presentation*  **No presentation** |
| Cont | | [S1-222241](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222241.zip) | | Philips | | New use case on distributed wireless sensing | | Revised to S1-222318 | | **e-Thread: [SA1#99e, FS\_Sensing\_27]**  2241r3 for approval day |
| Cont | | [S1-222318](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222318.zip) | | Philips | | New use case on distributed wireless sensing | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_27]***  **Revision of S1-222241.**  *Same as 2241r3*  *No presentation* |
| Cont | | [S1-222242](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222242r3.zip) | | Philips | | New use case on wireless sensing handover | | Revised to S1-222319 | | **e-Thread: [SA1#99e, FS\_Sensing\_28]**  2242r3 agreed |
| Cont | | [S1-222319](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222319.zip) | | Philips | | New use case on wireless sensing handover | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_28]***  **Revision of S1-222242.**  *Same as 2242r3*  *No presentation* |
| Cont | | [S1-222250](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222250.zip) | | Intel | | FS\_Sensing Use Case: Simultaneous Localization and Mapping(SLAM) for Advanced Extended Reality (XR), Autonomous vehicles and Drones. | | Merge into 2030r2 | | **e-Thread: [SA1#99e, FS\_Sensing\_29]** |
| Others | | | | | | | | | | |
| Cont | | [S1-222204](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222204r3.zip) | | Ericsson, Eurolab | | Security considerations for sensing | | Revised to S1-222320 | | **e-Thread: [SA1#99e, FS\_Sensing\_30]**  2204r4 (with editors note in clause 6) |
| Cont | | [S1-222320](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222320.zip) | | Ericsson, Eurolab | | Security considerations for sensing | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_30]***  **Revision of S1-222204.**  *Same as 2204r4*  *No presentation* |
| Cont | | [S1-222112](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222112r1.zip) | | Xiaomi | | Sensing privacy consideration | | Revised to S1-222321 | | **e-Thread: [SA1#99e, FS\_Sensing\_31]**  2112r2 (removing section 8) |
| Cont | | [S1-222321](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222321.zip) | | Xiaomi | | Sensing privacy consideration | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_31]***  **Revision of S1-222112.**  *Same as 2112r2*  *No presentation* |
| Cont | | [S1-222113](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222113r1.zip) | | Xiaomi | | Sensing public safety consideration | | Revised to S1-222322 | | **e-Thread: [SA1#99e, FS\_Sensing\_32]**  2113r1 agreed |
| Cont | | [S1-222322](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222322.zip) | | Xiaomi | | Sensing public safety consideration | | Agreed | | ***e-Thread: [SA1#99e, FS\_Sensing\_32]***  **Revision of S1-222113.**  *Same as 2113r1*  *No presentation* |
| Cont | | [S1-222114](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222114.zip) | | Xiaomi | | Sensing charging consideration | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_33]** |
| Cont | | [S1-222111](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222111r3.zip) | | Xiaomi | | Sensing mode | | Noted | | **e-Thread: [SA1#99e, FS\_Sensing\_34]**  2111r2 for approval day  o: DT, Vodafone |
| Cont | | [S1-222036](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222036.zip) | | T-Mobile | | Outcome of the drafting calls on FS\_Sensing | | Noted | | Just for info. |
| FS\_Sensing Output | | | | | | | | | | |
| TR | | S1-222272 | | Rapporteur (Deutsche Telekom) | | TR 22.837v0.2.0 Study on Integrated Sensing and Communication | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| FS\_AmbientIoT: Study on Ambient power-enabled Internet of Things [[SP-220085](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220085.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Weijie Xu (OPPO)  Latest version: TR 22.840  Target completion date: SA#98 (12/2022)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Yusuke Nakano  # e-threads: 25  **Block B** | | |
| General 1 | | | | | | | | | | |
| Cont | | [S1-222177](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222177r4.zip) | | OPPO | | Scope of TR 22.840 on study of ambient power-enabled IoT | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_1]**  2177r4 for approval day  o: Qualcomm, Ericsson |
| Cont | | [S1-222181](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222181.zip) | | OPPO | | Definitions related to Ambient IoT | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_2]**  o: Qualcomm, Ericsson |
| Cont | | [S1-222193](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222193.zip) | | Huawei | | Discussion Paper: on differentiating Ambient IoT from existing IoT technologies and proposal for definition and scope in TR 22.840 | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_2]** |
| Cont | | [S1-222197](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222197.zip) | | Huawei | | Pseudo-CR on updates for IoT Clause 1 and Clause 3.1 (FS-AmbientIoT) | | Revised to S1-222361 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_2]**  2197r2 for approval day |
| Cont | | [S1-222361](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222361.zip) | | Huawei | | Pseudo-CR on updates for IoT Clause 1 and Clause 3.1 (FS-AmbientIoT) | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_2]***  **Revision of S1-222197.**  *Same as 2197r2*  *No presentation* |
| Cont | | [S1-222236](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222236.zip) | | Apple | | Ambient IoT device power source profile | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_3]** |
| Cont | | [S1-222206](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222206r5.zip) | | KPN | | Power scenarios for Ambient IoT | | Revised to S1-222362 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_3]**  2206r6 agreed ( first sentence should say “on power available for communication”). |
| Cont | | [S1-222362](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222362.zip) | | KPN | | Power scenarios for Ambient IoT | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_3]***  **Revision of S1-222206.**  *Same as 2206r6*  *No presentation* |
| Cont | | [S1-222190](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222190.zip) | | OPPO | | Moderated discussion on Ambient power-enabled IoT | | Noted | | Just for info. |
| Cont | | [S1-222252](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222252.zip) | | Oppo | | Moderated discussion on Ambient power-enabled IoT(Call#2) | | Noted | | Just for info. |
| Use Cases Update | | | | | | | | | | |
| Cont | | [S1-222042](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222042.zip) | | Alibaba | | Update of use case 5.4 | | Revised to S1-222363 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_4]**  2042r1 for approval day |
| Cont | | [S1-222363](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222363.zip) | | Alibaba | | Update of use case 5.4 | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_4]***  **Revision of S1-222042.**  *Same as 2042r1*  *No presentation* |
| Cont | | [S1-222123](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222123.zip) | | ZTE | | Resolve editor’s notes in clause 5.2 | | Revised to S1-222364 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_5]**  2123r5 for approval day |
| Cont | | [S1-222364](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222364.zip) | | ZTE | | Resolve editor’s notes in clause 5.2 | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_5]***  **Revision of S1-222123.**  *Same as 2123r5*  *No presentation* |
| Cont | | [S1-222127](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222127r6.zip) | | Huawei, China Southern Power Grid | | Pseudo-CR on updates to clause 5.3 | | Revised to S1-222365 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_6]**  2127r7 agreed (remove editors note after kpi table) |
| Cont | | [S1-222365](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222365.zip) | | Huawei, China Southern Power Grid | | Pseudo-CR on updates to clause 5.3 | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_6]***  **Revision of S1-222127.**  *Same as 2127r7*  *No presentation* |
| Cont | | [S1-222153](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222153.zip) | | China Mobile | | Update service requirements for use case-Ambient\_IoT for automated warehousing | | Revised to S1-222366 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_7]**  2153r5 for approval day |
| Cont | | [S1-222366](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222366.zip) | | China Mobile | | Update service requirements for use case-Ambient\_IoT for automated warehousing | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_7]***  **Revision of S1-222153.**  *Same as 2153r5*  *No presentation* |
| Cont | | [S1-222208](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222208r3.zip) | | KPN | | Update of traffic scenario 6.1 with power scenario | | Revised to S1-222367 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_8]**  2208r4 agreed (clean up revision marking) |
| Cont | | [S1-222367](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222367.zip) | | KPN | | Update of traffic scenario 6.1 with power scenario | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_8]***  **Revision of S1-222208.**  *Same as 2208r4*  *No presentation* |
| Cont | | [S1-222188](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222188r3.zip) | | Huawei | | Pseudo-CR on updates to KIP table for Intralogistics (clause 5.5) | | Revised to S1-222368 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_9]**  2188r4 agreed (delete editors note) |
| Cont | | [S1-222368](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222368.zip) | | Huawei | | Pseudo-CR on updates to KIP table for Intralogistics (clause 5.5) | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_9]***  **Revision of S1-222188.**  *Same as 2188r4 agreed*  *No presentation* |
| Cont | | [S1-222202](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222202r2.zip) | | China Telecom | | Pseudo-CR 22.840 – updating use case for Ambient power-enabled IoT sensors in smart homes | | Revised to S1-222369 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_10]**  2202r3 agreed (delete editors note) |
| Cont | | [S1-222369](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222369.zip) | | China Telecom | | Pseudo-CR 22.840 – updating use case for Ambient power-enabled IoT sensors in smart homes | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_10]***  **Revision of S1-222202.**  *Same as 2202r3 agreed*  *No presentation* |
| New Use Cases | | | | | | | | | | |
| Cont | | [S1-222017](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222017r2.zip) | | Vodafone | | Elderly Health Care | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_11]**  2017r1 for approval day  o: Nokia, Ericsson |
| Cont | | [S1-222101](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222101r9.zip) | | Qualcomm | | Ambient IoT for Asset Tracking in Airport Terminals / Shipping Ports | | Revised to S1-222370 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_12]**  2101r10 agreed (removing first requirement and using [256 bits]  In KPI table) |
| Cont | | [S1-222370](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222370.zip) | | Qualcomm | | Ambient IoT for Asset Tracking in Airport Terminals / Shipping Ports | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_12]***  **Revision of S1-222101.**  *Same as 2101r10*  *No presentation* |
| Cont | | [S1-222103](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222103r6.zip) | | Qualcomm | | Finding remote lost item with Ambient IoT devices | | Revised to S1-222371 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_13]**  2103r7 agreed (editor’s note : UEs/RAN entities terminology needs to be clarified). |
| Cont | | [S1-222371](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222371.zip) | | Qualcomm | | Finding remote lost item with Ambient IoT devices | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_13]***  **Revision of S1-222103.**  *Same as 2103r7 agreed*  *No presentation* |
| Cont | | [S1-222121](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222121r3.zip) | | Xiaomi | | LCS for Ambient IoT | | Revised to S1-222372 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_14]**  2121r3 agreed |
| Cont | | [S1-222372](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222372.zip) | | Xiaomi | | LCS for Ambient IoT | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_14]***  **Revision of S1-222121.**  *Same as 2121r3 agreed*  *No presentation* |
| Cont | | [S1-222122](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222122.zip) | | Xiaomi | | Ranging for Ambient IoT | | Agreed | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_15]** |
| Cont | | [S1-222124](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222124r5.zip) | | ZTE | | New UC: Online modification of medical instruments status | | Revised to S1-222373 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_16]**  2124r6 agreed ()[PR 5.x.6-2] The 5G system shall be able to provide a mechanism for a trusted 3rd party to modify the information stored on an Ambient-IoT device ~~or a group of Ambient-IoT devices~~) |
| Cont | | [S1-222373](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222373.zip) | | ZTE | | New UC: Online modification of medical instruments status | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_16]***  **Revision of S1-222124.**  *Same as 2124r6*  *No presentation* |
| Cont | | [S1-222142](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222142r5.zip) | | vivo, OPPO | | New use case: Ambient IoT in personal belongings finding | | Revised to S1-222374 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_17]**  2142r6 agreed (remove editors note after KPI table) |
| Cont | | [S1-222374](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222374.zip) | | vivo, OPPO | | New use case: Ambient IoT in personal belongings finding | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_17]***  **Revision of S1-222142.**  *Same as 2142r6*  *No presentation* |
| Cont | | [S1-222143](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222143r7.zip) | | vivo | | New use case: Ambient IoT in Sensor Networks | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_18]**  2143r5 for approval day  o: Ericsson, DT |
| Cont | | [S1-222152](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222152.zip) | | China Mobile | | New use case Ambient IoT for Base Station Machine Room Environmental Supervision | | Revised to S1-222375 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_19]**  2152r4 for approval day |
| Cont | | [S1-222375](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222375.zip) | | China Mobile | | New use case Ambient IoT for Base Station Machine Room Environmental Supervision | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_19]***  **Revision of S1-222152.**  *Same as 2152r4*  *No presentation* |
| Cont | | [S1-222185](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222185r3.zip) | | Huawei | | pCR new use case-smart livestock farming | | Noted | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_20]**  2185r2 for approval day  o: Ericsson |
| Cont | | [S1-222187](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222187r6.zip) | | OPPO | | New use case: Indoor positioning in shopping centre using Ambient IoT | | Revised to S1-222376 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_21]**  2187r6 agreed |
| Cont | | [S1-222376](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222376.zip) | | OPPO | | New use case: Indoor positioning in shopping centre using Ambient IoT | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_21]***  **Revision of S1-222187.**  *Same as 2187r6*  *No presentation* |
| Cont | | [S1-222196](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222196r5.zip) | | Haier W. W. | | pCR New use case: Ambient\_IoT enablement of smart laundry | | Revised to S1-222377 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_22]**  2196r5 agreed |
| Cont | | [S1-222377](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222377.zip) | | Haier W. W. | | pCR New use case: Ambient\_IoT enablement of smart laundry | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_22]***  **Revision of S1-222196.**  *Same as 2196r5*  *No presentation* |
| Cont | | [S1-222198](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222198r6.zip) | | Haier | | pCR New use case: Ambient\_IoT in automated supply distribution | | Revised to S1-222378 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_23]**  2198r6 agreed |
| Cont | | [S1-222378](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222378.zip) | | Haier | | pCR New use case: Ambient\_IoT in automated supply distribution | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_23]***  **Revision of S1-222198.**  *Same as 2198r6*  *No presentation* |
| Cont | | [S1-222223](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222223.zip) | | KPN | | Traffic scenario for dairy cow stable | | Revised to S1-222379 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_24]**  2223r2 for approval day |
| Cont | | [S1-222379](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222379.zip) | | KPN | | Traffic scenario for dairy cow stable | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_24]***  **Revision of S1-222223.**  *Same as 2223r2*  *No presentation* |
| Cont | | [S1-222235](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222235r1.zip) | | Apple | | Use case on Ambient IoT Device Activation and Deactivation | | Revised to S1-222380 | | **e-Thread: [SA1#99e, FS\_AmbientIoT\_25]**  2235r1 agreed |
| Cont | | [S1-222380](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222380.zip) | | Apple | | Use case on Ambient IoT Device Activation and Deactivation | | Agreed | | ***e-Thread: [SA1#99e, FS\_AmbientIoT\_25]***  **Revision of S1-222235.**  *Same as 2235r1*  *No presentation* |
|  | | S1-222016 | | VODAFONE | | Elderly Health Care | | Withdrawn | |  |
| FS\_AmbientIoT Output | | | | | | | | | | |
| TR | | S1-222273 | | Rapporteur (OPPO) | | TR 22.840v0.2.0 Study on Ambient power-enabled Internet of Things | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC  No presentation |
| FS\_Metaverse: Study on Localized Mobile Metaverse Services [[SP-220353](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220353.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Erik Guttman (Samsung)  Latest version: TR 22.856  Target completion date: SA#99 (03/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Toon Norp  # e-threads: 17  **Block B** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222084](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222084.zip) | | China Mobile | | pCR- 22856-Scope modification | | Revised to S1-222381 | | **e-Thread: [SA1#99e, FS\_Metaverse\_1]**  2084r1 agreed |
| Cont | | [S1-222381](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222381.zip) | | China Mobile | | pCR- 22856-Scope modification | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_1]***  **Revision of S1-222084.**  *Same as 2084r1*  **No presentation** |
| Use Cases Update | | | | | | | | | | |
| Cont | | [S1-222022](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222022.zip) | | InterDigital, Tencent | | Update to the Use Case on Mobile Metaverse for 5G-enabled Traffic Flow Simulation and Situational Awareness | | Merge into 2025r7 | | **e-Thread: [SA1#99e, FS\_Metaverse\_2]** |
| Cont | | [S1-222025](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222025r9.zip) | | Tencent, Tencent Cloud, China Telecom, China Mobile, China Unicom | | pCR on update to 5.2 | | Revised to S1-222382 | | **e-Thread: [SA1#99e, FS\_Metaverse\_2]**  2025r10 agreed (remove requirement 2,3,4) |
| Cont | | [S1-222382](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222382.zip) | | Tencent, Tencent Cloud, China Telecom, China Mobile, China Unicom | | pCR on update to 5.2 | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_2]***  **Revision of S1-222025.**  *Same as 2025r10*  **No presentation** |
| Cont | | [S1-222023](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222023.zip) | | InterDigital | | Update to the Use Case on Localized Mobile Metaverse Service | | Revised to S1-222383 | | **e-Thread: [SA1#99e, FS\_Metaverse\_3]**  2023r1 for approval day |
| Cont | | [S1-222383](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222383.zip) | | InterDigital | | Update to the Use Case on Localized Mobile Metaverse Service | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_3]***  **Revision of S1-222023.**  *Same as 2023r1*  *No presentation* |
| Cont | | [S1-222032](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222032.zip) | | Samsung | | Pseudo-CR on Update to 5.1 | | Agreed | | **e-Thread: [SA1#99e, FS\_Metaverse\_3]** |
| Cont | | [S1-222125](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222125r5.zip) | | Huawei, Orange | | Pseudo-CR on updates to clause 5.3 | | Revised to S1-222384 | | **e-Thread: [SA1#99e, FS\_Metaverse\_4]**  2126r6 agreed (delete 2,3,4,5 and 6) |
| Cont | | [S1-222384](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222384.zip) | | Huawei, Orange | | Pseudo-CR on updates to clause 5.3 | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_4]***  **Revision of S1-222125.**  *Same as 2126r6*  *No presentation* |
| New Use Cases | | | | | | | | | | |
| Cont | | [S1-222026](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222026r5.zip) | | Tencent, Tencent Cloud | | Pseudo-CR on Mobile Metaverse for immersive gaming and live shows | | Revised to S1-222385 | | **e-Thread: [SA1#99e, FS\_Metaverse\_5]**  2026r5 agreed |
| Cont | | [S1-222385](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222385.zip) | | Tencent, Tencent Cloud | | Pseudo-CR on Mobile Metaverse for immersive gaming and live shows | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_5]***  **Revision of S1-222026.**  *Same as 2026r5*  *No presentation* |
| Cont | | [S1-222033](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222033.zip) | | Samsung | | Pseudo-CR on Use Case of Spatial Anchor Enabler | | Revised to S1-222386 | | **e-Thread: [SA1#99e, FS\_Metaverse\_6]**  2033r1 for approval day |
| Cont | | [S1-222386](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222386.zip) | | Samsung | | Pseudo-CR on Use Case of Spatial Anchor Enabler | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_6]***  **Revision of S1-222033.**  *Same as 2033r1*  *No presentation* |
| Cont | | [S1-222034](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222034.zip) | | Samsung | | Pseudo-CR on Spatial Mapping and Localization Service Enabler Use Case | | Revised to S1-222387 | | **e-Thread: [SA1#99e, FS\_Metaverse\_7]**  2034r6 (adding Intel as a co-source) |
| Cont | | [S1-222387](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222387.zip) | | Samsung | | Pseudo-CR on Spatial Mapping and Localization Service Enabler Use Case | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_7]***  **Revision of S1-222034.**  *Same as 2034r6*  *No presentation* |
| Cont | | [S1-222037](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222037.zip) | | Lenovo | | New Use Case Supporting communication between virtual devices using IMS | | Noted | | **e-Thread:** **[SA1#99e, FS\_Metaverse\_8]**  2037r3 for approval day  o: Ericsson |
| Cont | | [S1-222040](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222040.zip) | | NTT DOCOMO | | New use case of Work delegation to digital avatar | | Noted | | **e-Thread: [SA1#99e, FS\_Metaverse\_9]**  2040r2 for approval day  o: Ericsson, |
| Cont | | [S1-222041](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222041r2.zip) | | NTT DOCOMO | | New use case of Information access service from public UE | | Noted | | **e-Thread: [SA1#99e, FS\_Metaverse\_10]**  2041r2 for approval day  o: Qualcomm |
| Cont | | [S1-222077](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222077r2.zip) | | Orange, Huawei | | new use case - Interconnection of virtual universes | | Noted | | **e-Thread: [SA1#99e, FS\_Metaverse\_11]**  2077r2 for approval day  O:Qualcomm, ZTE |
| Cont | | [S1-222078](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222078.zip) | | Orange, Xiaomi, Huawei | | New use case - Digital asset container, presentation, access and certification | | Noted | | **e-Thread: [SA1#99e, FS\_Metaverse\_11]**  2078r3 for approval day  o: Samsung, Qualcomm |
| Cont | | [S1-222083](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222083r2.zip) | | China Mobile | | pCR-22856-new use case on metaverse market place | | Noted | | **e-Thread: [SA1#99e, FS\_Metaverse\_12]**  2083r1 for approval day  o: Qualcomm |
| Cont | | [S1-222105](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222105.zip) | | vivo | | Pseudo-CR on Use Case Immersive AR Interactive Experience | | Revised to S1-222388 | | **e-Thread: [SA1#99e, FS\_Metaverse\_13]**  2105r2 for approval day |
| Cont | | [S1-222388](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222388.zip) | | vivo | | Pseudo-CR on Use Case Immersive AR Interactive Experience | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_13]***  **Revision of S1-222105.**  *Same as 2105r2*  *No presentation* |
| Cont | | [S1-222192](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222192.zip) | | China Mobile | | pCR Metaverse use case of supporting UE service continuity and quality assurance between different operators in metaverse services | | Noted | | **e-Thread: [SA1#99e, FS\_Metaverse\_14]**  2192r1 for approval day  o: DT, |
| Cont | | [S1-222194](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222194.zip) | | China Mobile | | pCR Metaverse use case on supporting multi-application coordination in metaverse | | Revised to S1-222389 | | **e-Thread: [SA1#99e, FS\_Metaverse\_15]**  2194r2 for approval day |
| Cont | | [S1-222389](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222389.zip) | | China Mobile | | pCR Metaverse use case on supporting multi-application coordination in metaverse | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_15]***  **Revision of S1-222194.**  *Same as 2194r2*  *No presentation* |
| Cont | | [S1-222244](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222244r4.zip) | | Philips | | New use case on synchronized predictive avatars | | Revised to S1-222390 | | **e-Thread: [SA1#99e, FS\_Metaverse\_16]**  2244r5 (removing metaverse from first requirement) |
| Cont | | [S1-222390](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222390.zip) | | Philips | | New use case on synchronized predictive avatars | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_16]***  **Revision of S1-222244.**  *Same as 2244r5*  *No presentation* |
| Cont | | [S1-222249](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222249r2.zip) | | Intel | | FS\_Metaverse Use Case: Mission Critical Metaverse HealthCare- Surgeries, Education, Consultation and Body scans/vitals. | | Revised to S1-222391 | | **e-Thread: [SA1#99e, FS\_Metaverse\_17]**  2249r3 agreed ([5.A.6-1] The 5G system shall provide fault tolerant reliable end to end support critical HealthCare services .+editors note in KPI table + correct number for PRs) |
| Cont | | [S1-222391](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222391.zip) | | Intel | | FS\_Metaverse Use Case: Mission Critical Metaverse HealthCare- Surgeries, Education, Consultation and Body scans/vitals. | | Agreed | | ***e-Thread: [SA1#99e, FS\_Metaverse\_17]***  **Revision of S1-222249.**  *Same as 2249r3*  *No presentation* |
| Cont | | [S1-222038](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222038.zip) | | NTT DOCOMO | | New use case of Work delegation to digital avatar | | Withdrawn | |  |
| Cont | | [S1-222039](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222039.zip) | | NTT DOCOMO | | New use case of Information access service from public UE | | Withdrawn | |  |
| Cont | | [S1-222243](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222243.zip) | | Philips | | New use case on synchronized predictive avatars | | Withdrawn | |  |
| FS\_Metaverse Output | | | | | | | | | | |
| TR | | S1-222274 | | Rapporteur (Samsung) | | TR 22.856v0.2.0 Study on Localized Mobile Metaverse Services | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC  No presentation |
| FS\_NetShare: Study on Network Sharing Aspects [[SP-220087](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220087.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Qun Wei (China Unicom)  Latest version: TR 22.851  Target completion date: SA#98 (12/2022)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Greg Schumacher  # e-threads: 7  **Block B** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222082](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222082r2.zip) | | China Mobile | | pCR on NetShare Abbreviations | | Revised to S1-222392 | | **e-Thread: [SA1#99e, FS\_NetShare\_1]**  2082r2 agreed |
| Cont | | [S1-222392](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222392.zip) | | China Mobile | | pCR on NetShare Abbreviations | | Agreed | | ***e-Thread: [SA1#99e, FS\_NetShare\_1]***  **Revision of S1-222082.**  *Same as 2082r2*  *No presentation* |
| Use Cases Update | | | | | | | | | | |
| Cont | | [S1-222018](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222018r5.zip) | | ZTE | | New Requirements to Network Sharing | | Revised to S1-222393 | | **e-Thread: [SA1#99e, FS\_NetShare\_2]**  2018r5 agreed |
| Cont | | [S1-222393](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222393.zip) | | ZTE | | New Requirements to Network Sharing | | Agreed | | ***e-Thread: [SA1#99e, FS\_NetShare\_2]***  **Revision of S1-222018.**  *Same as 2018r5*  *No presentation* |
| New Use Cases | | | | | | | | | | |
| Cont | | [S1-222020](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222020r8.zip) | | CATT | | Pseudo-CR on use case of flexibility and security for non-N2 sharing network | | Noted | | **e-Thread: [SA1#99e, FS\_NetShare\_3]**  2020r5 for approval day  o: Nokia, |
| Cont | | [S1-222021](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222021r1.zip) | | one2many | | Use Case for missed PWS message | | Noted | | **e-Thread: [SA1#99e, FS\_NetShare\_4]** |
| Cont | | [S1-222024](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222024r8.zip) | | China Telecom | | Pseudo-CR on International Roaming Based on Network Sharing | | Revised to S1-222394 | | **e-Thread: [SA1#99e, FS\_NetShare\_5]**  2024r9 agreed (same as r8 with the req  [PR 5.X.6-001] The 5G system shall enable the shared access network of a hosting operator with indirect connection between the shared access network and a participating operator’s core network to provide services for inbound roaming users.  Note: Inbound roaming users mentioned above refer to the subscribers of a foreign operator having a roaming agreement with one participating operator.  ) |
| Cont | | [S1-222394](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222394.zip) | | China Telecom | | Pseudo-CR on International Roaming Based on Network Sharing | | Agreed | | ***e-Thread: [SA1#99e, FS\_NetShare\_5]***  **Revision of S1-222024.**  *Same as 2024r9*  *No presentation* |
| Cont | | [S1-222048](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222048r3.zip) | | China Unicom | | Pseudo-CR on use case of mobility scenarios and Requirements | | Revised to S1-222395 | | **e-Thread: [SA1#99e, FS\_NetShare\_6]**  2048r5 for approval day |
| Cont | | [S1-222395](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222395.zip) | | China Unicom | | Pseudo-CR on use case of mobility scenarios and Requirements | | Agreed | | ***e-Thread: [SA1#99e, FS\_NetShare\_6]***  **Revision of S1-222048.**  *Same as 2048r5*  *No presentation* |
| Cont | | [S1-222049](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222049r6.zip) | | China Unicom | | Pseudo-CR on Use Case of Service Continuity and QoS Requirements | | Revised to S1-222396 | | **e-Thread: [SA1#99e, FS\_NetShare\_7]**  2049r6 agreed (delete first three requirements) |
| Cont | | [S1-222396](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222396.zip) | | China Unicom | | Pseudo-CR on Use Case of Service Continuity and QoS Requirements | | Agreed | | ***e-Thread: [SA1#99e, FS\_NetShare\_7]***  **Revision of S1-222049.**  *Same as 2049r6*  *No presentation* |
| FS\_NetShare Output | | | | | | | | | | |
| TR | | S1-222275 | | Rapporteur (China Unicom) | | TR 22.851v0.2.0 Study on Network Sharing Aspects | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC  No presentation |
| FS\_FRMCS\_Ph5: Study on FRMCS Phase 5 [[SP-220088](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220088.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Guillaume Gach (UIC)  Latest version: [TR22.989v18.4.0](https://www.3gpp.org/ftp/Specs/archive/22_series/22.989/22989-i40.zip)  Target completion date: SA#101 (09/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Mona Mustapha  # e-threads: 3  **Block A** | | |
| CR | | [S1-222129](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222129.zip) | | UIC | | 22.989 v19.0.0 Enhancement and clean-up of Railway Emergency Communication related use cases | | Revised to S1-222323 | | **e-Thread: [SA1#99e, FS\_FRMCS\_Ph5\_1]**  *WI FS\_FRMCS\_Ph5 Rel-19 CR*0016*R- Cat C*  *2129r4* for approval day (minor typos) |
| CR | | [S1-222323](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222323.zip) | | UIC | | 22.989 v19.0.0 Enhancement and clean-up of Railway Emergency Communication related use cases | | Agreed | | ***e-Thread: [SA1#99e, FS\_FRMCS\_Ph5\_1]***  *WI FS\_FRMCS\_Ph5 Rel-19 CR0016R- Cat C*  **Revision of S1-222129.**  *Same as 2129r4* |
| CR | | [S1-222149](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222149.zip) | | UIC | | 22.989 v19.0.0 Public Train Emergency Communication related use cases | | Revised to S1-222324 | | **e-Thread: [SA1#99e, FS\_FRMCS\_Ph5\_2]**  *WI FS\_FRMCS\_Ph5 Rel-19 CR*0017*R- Cat B*  *2149r3* for approval day |
| CR | | [S1-222324](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222324.zip) | | UIC | | 22.989 v19.0.0 Public Train Emergency Communication related use cases | | Agreed | | ***e-Thread: [SA1#99e, FS\_FRMCS\_Ph5\_2]***  *WI FS\_FRMCS\_Ph5 Rel-19 CR0017R- Cat B*  **Revision of S1-222149.**  *Same as 2149r3* |
| CR | | [S1-222159](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222159.zip) | | UIC | | 22.989 v19.0.0 Railway staff Emergency Communication related use cases | | Revised to S1-222325 | | **e-Thread: [SA1#99e, FS\_FRMCS\_Ph5\_3]**  *WI FS\_FRMCS\_Ph5 Rel-19 CR*0018*R- Cat B*  *2159r3* for approval day |
| CR | | [S1-222325](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222325.zip) | | UIC | | 22.989 v19.0.0 Railway staff Emergency Communication related use cases | | Agreed | | ***e-Thread: [SA1#99e, FS\_FRMCS\_Ph5\_3]***  *WI FS\_FRMCS\_Ph5 Rel-19 CR0018R- Cat B*  **Revision of S1-222159.**  *Same as 2159r3* |
| FS\_AIML\_Ph2: Study on AI/ML Model Transfer\_Phase2 [[SP-220083](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220083.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Xu Yang (OPPO)  Latest version: TR22.876  Target completion date: SA#98 (12/2022)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Erik Guttman  # e-threads: 10  **Block B** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222156](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222156r1.zip) | | OPPO, Kyonggi University | | Introduction of TR 22.876 on study of AI/ML Model Transfer Phase 2 | | Revised to S1-222397 | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_1]**  2156r1 agreed |
| Cont | | [S1-222397](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222397.zip) | | OPPO, Kyonggi University | | Introduction of TR 22.876 on study of AI/ML Model Transfer Phase 2 | | Agreed | | ***e-Thread: [SA1#99e, FS\_AIML\_Ph2\_1]***  **Revision of S1-222156.**  *Same as 2156r1*  *No presentation* |
| Cont | | [S1-222158](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222158.zip) | | OPPO, Kyonggi University | | Scope of TR 22.876 on study of AI/ML Model Transfer Phase 2 | | Agreed | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_2]** |
| Cont | | [S1-222154](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222154.zip) | | OPPO | | Adding description in overview and updating the TR structure | | Revised to S1-222398 | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_3]**  2154r1 for approval day |
| Cont | | [S1-222398](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222398.zip) | | OPPO | | Adding description in overview and updating the TR structure | | Agreed | | ***e-Thread: [SA1#99e, FS\_AIML\_Ph2\_3]***  **Revision of S1-222154.**  *Same as 2154r1*  *No presentation* |
| Use Cases | | | | | | | | | | |
| Cont | | [S1-222044](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222044r4.zip) | | China Telecom | | Use Case of AI model transfer management through direct device connection | | Revised to S1-222399 | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_4]**  2044r5 agreed (NOTE: The monitoring information doesn’t include any user position-related data.) |
| Cont | | [S1-222399](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222399.zip) | | China Telecom | | Use Case of AI model transfer management through direct device connection | | Agreed | | ***e-Thread: [SA1#99e, FS\_AIML\_Ph2\_4]***  **Revision of S1-222044.**  *Same as 2044r5*  *No presentation* |
| Cont | | [S1-222162](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222162.zip) | | OPPO | | 5GS assisted distributed joint inference | | Noted | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_5]**  2162r1for approval day  o: DT |
| Cont | | [S1-222168](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222168.zip) | | OPPO, Tsinghua University | | 5GS assisted AIML model transfer learning | | Noted | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_6]**  2168r4 for approval day  o: DT |
| Cont | | [S1-222169](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222169r3.zip) | | OPPO, China Telecom | | Proximity based work task offloading for AIML inference | | Revised to S1-222400 | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_7]**  2169r4 agreed (delete functional potential requirements, keep KPI table) |
| Cont | | [S1-222400](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222400.zip) | | OPPO, China Telecom | | Proximity based work task offloading for AIML inference | | Agreed | | ***e-Thread: [SA1#99e, FS\_AIML\_Ph2\_7]***  **Revision of S1-222169.**  *Same as 2169r4*  *No presentation* |
| Cont | | [S1-222170](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222170r4.zip) | | OPPO | | Direct device connection assisted Federated Learning | | Revised to S1-222401 | | **e-Thread:** **[SA1#99e, FS\_AIML\_Ph2\_8]**  2170r4 agreed |
| Cont | | [S1-222401](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222401.zip) | | OPPO | | Direct device connection assisted Federated Learning | | Agreed | | ***e-Thread: [SA1#99e, FS\_AIML\_Ph2\_8]***  **Revision of S1-222170.**  *Same as 2170r4*  *No presentation* |
| Cont | | [S1-222175](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222175.zip) | | OPPO | | Intelligent advertisement notification using AR glasses | | Noted | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_9]**  orig. for approval day  o: DT |
| Cont | | [S1-222205](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222205r5.zip) | | China Telecom | | Use case of direct device connection assisted remote control operation for robotics service | | Noted | | **e-Thread: [SA1#99e, FS\_AIML\_Ph2\_10]**  2205r4 for approval day  c: Nokia, |
| FS\_AIML\_Ph2 Output | | | | | | | | | | |
| TR | | S1-222276 | | Rapporteur (OPPO) | | TR 22.874v0.2.0 Study on AI/ML Model Transfer\_Phase2 | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| FS\_5GSAT\_Ph3: Study on satellite access - Phase 3 [[SP-220679](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220679.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Thierry Bérisot (Novamint), Xu Xia (China Telecom)  Latest version: TR22.865  Target completion date: SA#99 (03/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Toon Norp  # e-threads: 11  **Block A** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222089](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222089.zip) | | NOVAMINT | | TR skeleton for TR 22.865 - 5GSAT-Ph3 | | Agreed | |  |
| Cont | | [S1-222090](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222090.zip) | | NOVAMINT | | Scope for the TR22.865 | | Revised to S1-222326 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_1]**  2090r2 agreed |
| Cont | | [S1-222326](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222326.zip) | | NOVAMINT | | Scope for the TR22.865 | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_1]***  **Revision of S1-222090.**  *Same as 2090r2* |
| Cont | | [S1-222091](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222091.zip) | | NOVAMINT, Sateliot, GateHouse | | new definitions and abbreviations | | Revised to S1-222327 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_2]**  2091r3 for approval day |
| Cont | | [S1-222327](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222327.zip) | | NOVAMINT, Sateliot, GateHouse | | new definitions and abbreviations | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_2]***  **Revision of S1-222091.**  *Same as 2091r3* |
| Use Cases | | | | | | | | | | |
| Cont | | [S1-222045](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222045r5.zip) | | China Telecom | | Use case of store and forward operation with discontinuous feeder link for delay-tolerant IoT - Inter-satellite | | Revised to S1-222328 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_3]**  2045r6 agreed (editor’s note FFS to [P.R.x.y-002]). |
| Cont | | [S1-222328](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222328.zip) | | China Telecom | | Use case of store and forward operation with discontinuous feeder link for delay-tolerant IoT - Inter-satellite | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_3]***  **Revision of S1-222045.**  *Same as 2045r6* |
| Cont | | [S1-222140](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222140r5.zip) | | China Telecom, CATT | | Use Case:Temporary LAN using satellite access | | Revised to S1-222329 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_4]**  2140r6 agreed ([PR X.1.6-001] Subject to regulatory requirements and operator preferences, the 5G system shall be able to support an efficient communication path and resource utilization for a UE using only satellites access, e.g. to minimize the latencies introduced by satellite links involved. ) |
| Cont | | [S1-222329](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222329.zip) | | China Telecom, CATT | | Use Case:Temporary LAN using satellite access | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_4]***  **Revision of S1-222140.**  *Same as 2140r6* |
| Cont | | [S1-222141](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222141r5.zip) | | CATT, China Telecom | | Use Case: Enhanced Positioning Service using Satellite Access | | Revised to S1-222330 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_5]**  2141r6 agreed ([PR X.1.6-001] Subject to regulatory requirements and operator policy, the 5G system with satellite access shall be able to support 3GPP positioning methods for UEs using only satellite access ~~e.g. when other 3GPP RATs are unavailable~~.) |
| Cont | | [S1-222330](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222330.zip) | | CATT, China Telecom | | Use Case: Enhanced Positioning Service using Satellite Access | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_5]***  **Revision of S1-222141.**  *Same as 2141r6* |
| Cont | | [S1-222201](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222201r5.zip) | | Huawei | | Pseudo-CR on Use case of Information Exchange between ships at sea | | Revised to S1-222331 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_6]**  2201r6 agreed (no changes on changes) |
| Cont | | [S1-222331](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222331.zip) | | Huawei | | Pseudo-CR on Use case of Information Exchange between ships at sea | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_6]***  **Revision of S1-222201.**  *Same as 2201r6* |
| Cont | | [S1-222207](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222207r4.zip) | | China Telecom | | New use case of UAVs using satellite access | | Revised to S1-222332 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_7]**  2207r4 agreed |
| Cont | | [S1-222332](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222332.zip) | | China Telecom | | New use case of UAVs using satellite access | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_7]***  **Revision of S1-222207.**  *Same as 2207r4* |
| Cont | | [S1-222217](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222217r4.zip) | | Huawei | | Pseudo-CR on Use case of data transfer for IoT devices in remote areas | | Revised to S1-222333 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_8]**  2217r5 agreed( cleaning +[PR 5.1.6-1] The 5G system ~~Core Network function onboard the satellite~~ shall support mechanisms to store user data, received from UEs via satellite access, ~~connected via a~~ on the satellite and forward it ~~to the ground 5G core network~~ when feeder link between the satellite and the ground segment is available~~, and vice versa~~.+ [PR 5.1.6-4] The 5G system shall be able to limit the total amount of the stored data recieved from a UE when using the store and forward operation.) |
| Cont | | [S1-222333](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222333.zip) | | Huawei | | Pseudo-CR on Use case of data transfer for IoT devices in remote areas | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_8]***  **Revision of S1-222217.**  *Same as 2217r5* |
| Cont | | [S1-222219](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222219.zip) | | NOVAMINT, Sateliot, GateHouse | | Use case store and forward - MO | | Revised to S1-222334 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_9]**  2219r4 for approval day |
| Cont | | [S1-222334](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222334.zip) | | NOVAMINT, Sateliot, GateHouse | | Use case store and forward - MO | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_9]***  **Revision of S1-222219.**  *Same as 2219r4* |
| Cont | | [S1-222220](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222220r4.zip) | | NOVAMINT | | Use case store and forward - MT | | Revised to S1-222335 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_10]**  2220r4 for approval day |
| Cont | | [S1-222335](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222335.zip) | | NOVAMINT | | Use case store and forward - MT | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_10]***  **Revision of S1-222220.**  *Same as 2220r4* |
| Others | | | | | | | | | | |
| Cont | | [S1-222227](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222227.zip) | | Sateliot, GateHouse, Novamint | | Description of store and forward operation | | Revised to S1-222336 | | **e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_11]**  2227r3 for approval day |
| Cont | | [S1-222336](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222336.zip) | | Sateliot, GateHouse, Novamint | | Description of store and forward operation | | Agreed | | ***e-Thread: [SA1#99e, FS\_5GSAT\_Ph3\_11]***  **Revision of S1-222227.**  *Same as 2227r3* |
| FS\_5GSAT\_Ph3 Output | | | | | | | | | | |
| TR | | S1-222277 | | Rapporteur (NOVAMINT) | | TR 22.865v0.1.0 Study on Satellite Access –  Phase 3 | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| FS\_UAV\_Ph3: Study on UAV Phase 3 [[SP-220680](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220680.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Pengtai Qin (China Mobile)  Latest version: TR22.843  Target completion date: SA#100 (06/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Xu Xia  # e-threads: 5  **Block B** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222161](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222161.zip) | | China Mobile | | UAV\_Ph3 TR 22.843 skeleton | | Revised to S1-222402 | | 2161r1 pre-agreed |
| Cont | | [S1-222402](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222402.zip) | | China Mobile | | UAV\_Ph3 TR 22.843 skeleton | | Agreed | | Revision of S1-222161.  *Same as 2161r1*  *No presentation* |
| Cont | | [S1-222163](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222163r1.zip) | | China Mobile | | pCR FS\_UAV\_Ph3 Scope | | Revised to S1-222403 | | **e-Thread: [SA1#99e, FS\_UAV\_Ph3\_1]**  2163 r2 agreed (Correct tense + minor typos + Note: This document + format) |
| Cont | | [S1-222403](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222403.zip) | | China Mobile | | pCR FS\_UAV\_Ph3 Scope | | Agreed | | ***e-Thread: [SA1#99e, FS\_UAV\_Ph3\_1]***  **Revision of S1-222163.**  *Same as 2163r2*  *No presentation* |
| Cont | | [S1-222165](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222165.zip) | | China Mobile | | pCR FS\_UAV\_Ph3 Overview | | Revised to S1-222404 | | **e-Thread: [SA1#99e, FS\_UAV\_Ph3\_2]**  2165r1for approval day |
| Cont | | [S1-222404](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222404.zip) | | China Mobile | | pCR FS\_UAV\_Ph3 Overview | | Agreed | | ***e-Thread: [SA1#99e, FS\_UAV\_Ph3\_2]***  **Revision of S1-222165.**  *Same as 2165r1*  *No presentation* |
| Use Cases | | | | | | | | | | |
| Cont | | [S1-222079](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222079r3.zip) | | Orange | | New use case - UAV detection | | Revised to S1-222405 | | **e-Thread: [SA1#99e, FS\_UAV\_Ph3\_3]**  *2079r4 (Req should be [PR 5.x.6-1] The 5G system shall be able to detect that a connected UE is airborne, while UE’s subscription does not include “aerial subscription”. + Cosign futerwei)* |
| Cont | | [S1-222405](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222405.zip) | | Orange | | New use case - UAV detection | | Agreed | | ***e-Thread: [SA1#99e, FS\_UAV\_Ph3\_3]***  **Revision of S1-222079.**  *Same as 2079r4*  *No presentation* |
| Cont | | [S1-222166](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222166r4.zip) | | China Mobile | | New use case\_Support of UAV pre-flight preparation | | Revised to S1-222406 | | **e-Thread: [SA1#99e, FS\_UAV\_Ph3\_4]**  2166r4 agreed |
| Cont | | [S1-222406](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222406.zip) | | China Mobile | | New use case\_Support of UAV pre-flight preparation | | Agreed | | ***e-Thread: [SA1#99e, FS\_UAV\_Ph3\_4]***  **Revision of S1-222166.**  *Same as 2166r4*  *No presentation* |
| Cont | | [S1-222218](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222218r3.zip) | | Huawei | | New use case: 3GPP network as an information source to the UTM | | Noted | | **e-Thread: [SA1#99e, FS\_UAV\_Ph3\_5]**  2218r3 |
| Cont | | S1-222160 | | China Mobile | | Revised SID on UAV Phase 3 | | Moved to 4 | |  |
| FS\_UAV\_Ph3: Study on UAV Phase 3 [[SP-220680](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220680.zip)] | | | | | | | | | | |
| TR | | S1-222278 | | Rapporteur (China Mobile) | | TR 22.843v0.1.0 Study on UAV Phase 3 | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| FS\_RVAS: Study on roaming value added services [[SP-220442](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220442.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Peter Bleckert (Ericsson)  Latest version: TR22.877  Target completion date: SA#99 (03/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Mark Younge  # e-threads: 5  **Block B** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222010](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222010.zip) | | Ericsson | | TR 22.877 v0.0.0 (TR skeleton) | | Agreed | |  |
| Cont | | [S1-222011](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222011.zip) | | Ericsson, Deutsche Telekom | | Scope to the TR22.877 | | Revised to S1-222407 | | **e-Thread: [SA1#99e, FS\_RVAS\_1]**  2011r1 agreed (“NOTE: This document…”+ Note format) |
| Cont | | [S1-222407](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222407.zip) | | Ericsson, Deutsche Telekom | | Scope to the TR22.877 | | Agreed | | ***e-Thread: [SA1#99e, FS\_RVAS\_1]***  **Revision of S1-222011.**  *Same as 2011r1*  *No presentation* |
| Cont | | [S1-222012](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222012.zip) | | Ericsson, Deutsche Telekom | | Overview chapter to TR 22.877 | | Revised to S1-222408 | | **e-Thread: [SA1#99e, FS\_RVAS\_2]**  2012r1for approval day |
| Cont | | [S1-222408](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222408.zip) | | Ericsson, Deutsche Telekom | | Overview chapter to TR 22.877 | | Agreed | | ***e-Thread: [SA1#99e, FS\_RVAS\_2]***  **Revision of S1-222012.**  *Same as 2012r1*  *No presentation* |
| Use Cases | | | | | | | | | | |
| Cont | | [S1-222013](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222013.zip) | | Ericsson, Deutsche Telekom | | Welcome SMS use case to TR22.877 | | Revised to S1-222409 | | **e-Thread: [SA1#99e, FS\_RVAS\_3]**  2013r5 for approval day |
| Cont | | [S1-222409](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222409.zip) | | Ericsson, Deutsche Telekom | | Welcome SMS use case to TR22.877 | | Agreed | | ***e-Thread: [SA1#99e, FS\_RVAS\_3]***  **Revision of S1-222013.**  *Same as 2013r5*  *No presentation* |
| Cont | | [S1-222014](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222014r3.zip) | | Deutsche Telekom, Ericsson | | SoR during registration procedure use case to TR 22.877 | | Revised to S1-222410 | | **e-Thread: [SA1#99e, FS\_RVAS\_4]**  2014r6 for approval day |
| Cont | | [S1-222410](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222410.zip) | | Deutsche Telekom, Ericsson | | SoR during registration procedure use case to TR 22.877 | | Agreed | | ***e-Thread: [SA1#99e, FS\_RVAS\_4]***  **Revision of S1-222014.**  *Same as 2014r6*  *No presentation* |
| Cont | | [S1-222015](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222015r3.zip) | | Deutsche Telekom, Ericsson | | IMSI based routing to a particular core network use case to TR 22.877 | | Revised to S1-222411 | | **e-Thread: [SA1#99e, FS\_RVAS\_5]**  2015r6 for approval day |
| Cont | | [S1-222411](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222411.zip) | | Deutsche Telekom, Ericsson | | IMSI based routing to a particular core network use case to TR 22.877 | | Agreed | | ***e-Thread: [SA1#99e, FS\_RVAS\_5]***  **Revision of S1-222015.**  *Same as 2015r6*  *No presentation* |
| FS\_RVAS Output | | | | | | | | | | |
| TR | | S1-222279 | | Rapporteur (Ericsson) | | TR 22.877v0.1.0 Study on roaming value added services | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC  No presentation |
| FS\_DualSteer: Study on Upper layer traffic steering, switching and split over dual 3GPP access [[SP-220445](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220445.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Francesco Pica (Qualcomm)  Latest version: TR22.841  Target completion date: SA#100 (06/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Greg Schumacher  # e-threads: 10  **Block A** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222210](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222210.zip) | | Qualcomm | | TR 22.841\_FS\_DualSteer\_Skeleton | | Agreed | |  |
| Cont | | [S1-222211](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222211r4.zip) | | Qualcomm | | TR 22.841\_scope pCR | | Noted | | **e-Thread: [SA1#99e, FS\_DualSteer\_1]**  2211r4 for approval day  o: Huawei |
| Use Cases | | | | | | | | | | |
| Cont | | [S1-222019](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222019r9.zip) | | Lockheed Martin | | FS\_DualSteer Use Case~~s~~ - Vehicle/UAV UE connecting to TN+NTN access networks | | Noted | | **e-Thread: [SA1#99e, FS\_DualSteer\_2]**  2019r6 for approval day  o: Nokia |
| Cont | | [S1-222246](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222246.zip) | | Lockheed Martin | | FS\_DualSteer Use Case - Vehicle/UE connecting to NTN+NTN access networks | | Noted | | **e-Thread: [SA1#99e, FS\_DualSteer\_2]**  2246r5 for approval day  o: Nokia |
| Cont | | [S1-222247](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222247.zip) | | Lockheed Martin | | FS\_DualSteer Use Case - UE on Vehicle connecting to NTN+TN access networks (PLMN/NPN) | | Noted | | **e-Thread: [SA1#99e, FS\_DualSteer\_2]**  2247r5 for approval day  o:Nokia |
| Cont | | [S1-222047](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222047r4.zip) | | THALES, QUALCOMM | | NTN based dual 3GPP access | | Revised to S1-222337 | | **e-Thread: [SA1#99e, FS\_DualSteer\_3]**  2047r5 agreed (fix numbering of reqs. and delete last bracket of 1st req.) |
| Cont | | [S1-222337](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222337.zip) | | THALES, QUALCOMM | | NTN based dual 3GPP access | | Agreed | | ***e-Thread: [SA1#99e, FS\_DualSteer\_3]***  **Revision of S1-222047.**  *Same as 2047r5*  *No presentation* |
| Cont | | [S1-222104](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222104.zip) | | SyncTechno, | | Use case on dual 5G satellite access in maritime scenario | | Revised to S1-222338 | | **e-Thread: [SA1#99e, FS\_DualSteer\_4]**  2104r1 for approval day |
| Cont | | [S1-222338](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222338.zip) | | SyncTechno, | | Use case on dual 5G satellite access in maritime scenario | | Agreed | | ***e-Thread: [SA1#99e, FS\_DualSteer\_4]***  **Revision of S1-222104.**  *Same as 2104r1*  *No presentation* |
| Cont | | [S1-222144](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222144.zip) | | CATT | | Use Case: Traffic Switch between Terrestrial and Satellite Access | | Revised to S1-222339 | | **e-Thread: [SA1#99e, FS\_DualSteer\_5]**  2144r3 for approval day |
| Cont | | [S1-222339](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222339.zip) | | CATT | | Use Case: Traffic Switch between Terrestrial and Satellite Access | | Agreed | | ***e-Thread: [SA1#99e, FS\_DualSteer\_5]***  **Revision of S1-222144.**  *Same as 2144r3*  *No presentation* |
| Cont | | [S1-222195](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222195.zip) | | China Mobile | | pCR DualSteer use case of supporting MUSIM of different PLMNs coordination for the same service | | Noted | | **e-Thread: [SA1#99e, FS\_DualSteer\_6]** |
| Cont | | [S1-222212](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222212r4.zip) | | Qualcomm | | Use Case on single-PLMN dual-3GPP access | | Noted | | **e-Thread: [SA1#99e, FS\_DualSteer\_7]**  2212r4 for approval day  o:Huawei |
| Cont | | [S1-222214](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222214.zip) | | Qualcomm | | Use Case on PLMN plus PLMN-SNPN dual-3GPP access | | Revised to S1-222340 | | **e-Thread: [SA1#99e, FS\_DualSteer\_8]**  2214r5 for approval day |
| Cont | | S1-222340 | | Qualcomm | | Use Case on PLMN plus PLMN-SNPN dual-3GPP access | | Agreed | | ***e-Thread: [SA1#99e, FS\_DualSteer\_8]***  **Revision of S1-222214.**  *Same as 2214r5*  *No presentation* |
| Cont | | [S1-222216](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222216.zip) | | Qualcomm | | Use Case on inter-PLMN dual-3GPP access\_dual-RAT | | Revised to S1-222341 | | **e-Thread: [SA1#99e, FS\_DualSteer\_9]**  2216r4 for approval day |
| Cont | | S1-222341 | | Qualcomm | | Use Case on inter-PLMN dual-3GPP access\_dual-RAT | | Agreed | | ***e-Thread: [SA1#99e, FS\_DualSteer\_9]***  **Revision of S1-222216.**  *Same as 2216r4*  *No presentation* |
| Cont | | [S1-222221](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222221.zip) | | CableLabs | | FS\_DualSteer - New use case for Inter-PLMN mobility scenario | | Revised to S1-222342 | | **e-Thread: [SA1#99e, FS\_DualSteer\_10]**  2221r4 for approval day |
| Cont | | S1-222342 | | CableLabs | | FS\_DualSteer - New use case for Inter-PLMN mobility scenario | | Agreed | | ***e-Thread: [SA1#99e, FS\_DualSteer\_10]***  **Revision of S1-222221.**  *Same as 2221r4*  *No presentation* |
| Cont | | [S1-222046](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222046.zip) | | THALES | | NTN based dual 3GPP access | | Noted | | Noted, same as 2047 |
| FS\_DualSteer Output | | | | | | | | | | |
| TR | | S1-222280 | | Rapporteur (Qualcomm) | | TR 22.841v0.1.0 Study on Upper layer traffic steering, switching and split over dual 3GPP access | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| FS\_EnergyServ: Study on Energy Efficiency as service criteria [[SP-220446](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220446.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Xiaonan Shi, (China Mobile)  Latest version: TR22.882  Target completion date: SA#99 (13/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Xu Xia  # e-threads: 5  **Block B** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222178](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222178r2.zip) | | China Mobile | | EnergyServ TR 22.882 skeleton | | Revised to S1-222412 | | 2178r3-agreed (No Normative Annexes) |
| Cont | | [S1-222412](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222412.zip) | | China Mobile | | EnergyServ TR 22.882 skeleton | | Agreed | | Revision of S1-222178.  *Same as 2178r3*  *No presentation* |
| Cont | | [S1-222179](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222179r1.zip) | | China Mobile | | pCR EnergyServ adding scope | | Revised to S1-222413 | | **e-Thread: [SA1#99e, FS\_EnergyServ\_1]**  2179r2 agreed (“The present document”) |
| Cont | | [S1-222413](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222413.zip) | | China Mobile | | pCR EnergyServ adding scope | | Agreed | | ***e-Thread: [SA1#99e, FS\_EnergyServ\_1]***  **Revision of S1-222179.**  *Same as 2179r2*  *No presentation* |
| Cont | | [S1-222180](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222180r1.zip) | | China Mobile | | pCR EnergyServ adding overview | | Revised to S1-222414 | | **e-Thread: [SA1#99e, FS\_EnergyServ\_2]**  2180r3 for approval day |
| Cont | | [S1-222414](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222414.zip) | | China Mobile | | pCR EnergyServ adding overview | | Agreed | | ***e-Thread: [SA1#99e, FS\_EnergyServ\_2]***  **Revision of S1-222180.**  *Same as 2180r3*  *No presentation* |
| Cont | | [S1-222182](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222182r1.zip) | | China Mobile | | pCR EnergyServ adding gap analysis | | Revised to S1-222415 | | **e-Thread: [SA1#99e, FS\_EnergyServ\_3]**  2182r1 agreed |
| Cont | | [S1-222415](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222415.zip) | | China Mobile | | pCR EnergyServ adding gap analysis | | Agreed | | ***e-Thread: [SA1#99e, FS\_EnergyServ\_3]***  **Revision of S1-222182.**  *Same as 2182r1*  *No presentation* |
| Cont | | [S1-222213](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222213.zip) | | Huawei | | Existing Energy Efficiency standardisation | | Noted | | **e-Thread: [SA1#99e, FS\_EnergyServ\_3]** |
| Cont | | [S1-222215](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222215.zip) | | Huawei | | pCR on existing Energy Efficiency standardisation | | Merge into 2182r1 | | **e-Thread: [SA1#99e, FS\_EnergyServ\_3]** |
| Use Cases | | | | | | | | | | |
| Cont | | [S1-222031](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222031r4.zip) | | Samsung | | 22.822 pCR - Energy Utilization as a Performance Criteria for Best Effort Communication | | Revised to S1-222416 | | **e-Thread: [SA1#99e, FS\_EnergyServ\_4]**  2031r4 agreed |
| Cont | | [S1-222416](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222416.zip) | | Samsung | | 22.822 pCR - Energy Utilization as a Performance Criteria for Best Effort Communication | | Agreed | | ***e-Thread: [SA1#99e, FS\_EnergyServ\_4]***  **Revision of S1-222031.**  *Same as 2031r4*  *No presentation* |
| Cont | | [S1-222183](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222183.zip) | | China Mobile | | pCR EnergyServ use case of reusing location information for PLMN and NPN of the same operator to save energy | | Noted | | **e-Thread: [SA1#99e, FS\_EnergyServ\_5]**  2183r2 for approval day  o: Nokia |
| FS\_ EnergyServ Output | | | | | | | | | | |
| TR | | S1-222281 | | Rapporteur (China Mobile) | | TR 22.882v0.1.0 Study on Energy Efficiency as service criteria | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC  No presentation |
| FS\_SOBOT: Study on Network of Service Robots with Ambient Intelligence [[SP-220447](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220447.zip)] | | | | | | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Ki-Dong Lee (LGE)  Latest version: TR22.916  Target completion date: SA#99 (03/2023)  Percentage completion: 0% | | | | | | | | **Details e-mail discussion** :  Moderator: Mark Younge  # e-threads: 2  **Block A** | | |
| General | | | | | | | | | | |
| Cont | | [S1-222230](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222230r6.zip) | | LG Electronics | | SOBOT TR Skeleton | | Revised to S1-222343 | | **e-Thread: [SA1#99e, FS\_SOBOT\_skeleton]**  2230r7 (Section 5 will be empty and for discussion next meeting) |
| Cont | | [S1-222343](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222343.zip) | | LG Electronics | | SOBOT TR Skeleton | | Agreed | | ***e-Thread: [SA1#99e, FS\_SOBOT\_skeleton]***  **Revision of S1-222230.**  *Same as 2230r7*  *No presentation* |
| Cont | | [S1-222232](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222232r1.zip) | | LG Electronics | | SOBOT TR Scope | | Revised to S1-222344 | | **e-Thread: [SA1#99e, FS\_SOBOT\_1]**  2232r1 agreed |
| Cont | | [S1-222344](file:///C:\Users\almodovarchicojl\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\FYJ6G6IS\docs\S1-222344.zip) | | LG Electronics | | SOBOT TR Scope | | Agreed | | ***e-Thread: [SA1#99e, FS\_SOBOT\_1]***  **Revision of S1-222232.**  *Same as 2232r1*  *No presentation* |
| Cont | | [S1-222240](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222240r7.zip) | | LG Electronics | | Online cooperative 3D map building (focused on ProSe-based scenario) | | Noted | | **e-Thread: [SA1#99e, FS\_SOBOT\_2]**  2240r3 for approval day  o: Nokia |
| Cont | | [S1-222234](file:///E:\TSGS1_99e_EM_Aug2022\Docs\S1-222234.zip) | | LG Electronics | | Planning for SOBOT TR - Supplementary material | | Withdrawn | |  |
| FS\_SOBOT Output | | | | | | | | | | |
| TR | | S1-222282 | | Rapporteur (LGE) | | TR 22.916v0.1.0 Study on Network of Service Robots with Ambient Intelligence | | Agreed | | First draft by Tue 6th 23:00 UTC  Comments till Thurs 8th 23:00UTC  Final version by Fri 9th 23:00UTC |
| Other technical contributions | | | | | | | | | | |
| Other non-technical contributions | | | | | | | | | | |
| Work Item/Study Item progress | | | | | | | | | | |
| Session information outputs | | | | | | | | | | |
| Work Item/Study Item status update | | | | | | | | | | |
| REP | S1-222283 | | Hansung University | | FS\_RAILSS – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222284 | | Deutsche Telekom | | FS\_Sensing – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222285 | | OPPO | | FS\_AmbientIoT – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222286 | | Samsung | | FS\_Metaverse – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222287 | | China Unicom | | FS\_NetShare – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222288 | | UIC | | FS\_FRMCS\_Ph3– Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222289 | | OPPO | | FS\_AIML\_Ph2– Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222290 | | Ericsson | | FS\_RVAS – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222291 | | Novamint | | FS\_ 5GSAT\_Ph3– Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222292 | | China Mobile | | FS\_UAV\_Ph3– Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222293 | | Qualcomm | | FS\_DualSteer – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222294 | | China Mobile | | FS\_EnergieServ – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222295 | | LGE | | FS\_SOBOT – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222417 | | China Telecom | | MINT\_Ph2 – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222418 | | Peraton Labs | | MPS4msg – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222419 | | Saankhya Labs | | DTTB4MBS – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| REP | S1-222420 | | China Telecom | | MultiRelay – Status report | | Noted | | Expected by Friday 2nd 23:00 UTC | |
| Next meetings (calendar) | | | | | | | | | | |
| **2022 meetings:**  SA1#100 14-18 Nov 2022 Europe (dates and location T.B.D.)  **2023 meetings:**  SA1#100\_adhoc 16-20 Jan 2023 e-meeting  SA1#101 27 Feb – 3 Mar 2023 Europe (T.B.D)  SA1#102 15-19 May 2023 T.B.D.  SA1#103 21-25 Aug 2023 T.B.D.  SA1#104 13-17 Nov 2023 T.B.D. (mega meeting) | | | | | | | | | | |
| Any other business | | | | | | | | | | |
| Close | | | | | | | | | | |
| Close latest by 16:00 UTC on Thursday 1 September 2022 | | | | | | | | | | |