3GPP TSG-SA WG1 Meeting SA1#98-e S1-221002

Electronic Meeting, 9 – 19 May 2022

Title: 1st Draft Agenda for SA1#98-e

Ag. Item: 1.1

Source: SA1 Chairperson

Contact: Jose Almodovar

Submission Guidelines

* **Submission deadlines:**
	1. Tdoc **number** and **CR number** requests:     **Friday,** 29 April 2022, 23:00 UTC
	2. Document **submission**:                                **Friday,** 29 April 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_98e_EM_May2022/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**Conclusion**: Agreed, Approved, Revised to S1-22xxxx, Noted, Withdrawn, Moved to section xxx, Rejected, Postponed, Email Approval, Not Handled, Unallocated, Drafting

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| --- | --- | --- | --- | --- | --- |
| DocType | 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| CR | S1-19xxxx | Source | Title | Withdrawn |  |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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| --- |
| Opening of the meeting |
| Opening of the meeting at 23:00 UTC on Sunday 8 May 2022.**Do not forget to check in during the meeting!** Based on a recent PCG decision, delegates from 3GPP Individual Members (IMs) can from now on accrue voting rights during 3GPP e-meetings. For more info please check 3GPP working procedures. |
| Guidelines e-meeting |
| Delegates can find the guidelines that will be followed during SA1#98e in the following [link](https://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_98e_EM_May2022/Docs/S1-221006.zip). |
| Agenda and scheduling |
| AGE | S1-221000 | SA1 Chair | Draft agenda for SA1#98e | Revised to S1-221001 |  |
| AGE | [S1-221001](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221001.zip) | SA1 Chair | 2nd Draft agenda for SA1#95e | Revised to S1-221002 | Revision of S1-221000. |
| AGE | [S1-221002](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221002.zip) | SA1 Chair | Agenda for SA1#98e with tdoc allocation | Approved | *Revision of S1-221000.*Revision of S1-221001. |
| 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 | [S1-221003](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221004.zip) | ETSI | Draft minutes of SA1#97e | Revised to S1-221004 |  |
| REP | [S1-221004](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221005.zip) | ETSI | Minutes of SA1#97e | Approved | Revision of S1-221003. |
| 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.docWhen writing CRs, please follow the guidance provided in [SP-221008](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_98e_EM_May2022/Docs/S1-221008.zip) (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 |
| Reports and action items e-Thread: [SA1#98e, SA1\_Reports] |
| REP | [S1-221007](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221007.zip) | SA1 chairperson | SA1-related topics at SA#95e | Noted |  |
| REP | [S1-221006](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221006.zip) | SA1 Chair & ETSI MCC | Guidelines for SA1#98e (e-meeting) | Noted |  |
| REP | [S1-221005](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221005.zip) | ETSI MCC | Work Plan presentation for SA1#98e | Noted |  |
| REP | [S1-221008](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221008.zip) | ETSI MCC | MCC info on CR Rules | Noted |  |
| REP | [S1-221009](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221009.zip) | ETSI MCC | MCC info on WID names | Noted |  |
| Liaison Statements (including related contributions) |
| **MINT and Higher priority PLMN Selection e-Thread: [SA1#98e, LS S1-221176]** |
| TO | [S1-221176](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221176.zip) | C1-220816 | LS on MINT and Higher priority PLMN Selection | Replied into 1144r2 | Postponed from SA1#97e |
| OUT | [S1-221043](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221043.zip) | Apple | draft LS to CT1 on Reply LS on MINT and Higher priority PLMN Selection | Noted |  |
| Cont | [S1-221044](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221044.zip) | Apple | MINT and PLMN selection | Noted |  |
| OUT | [S1-221144](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221144r2.zip) | Samsung | [Draft] Reply LS on MINT and Higher priority PLMN Selection | Revised to S1-221208 | R2 agreed |
| OUT | [S1-221208](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221208.zip) | Samsung | [Draft] Reply LS on MINT and Higher priority PLMN Selection | Agreed | Revision of S1-221144.Same as 1144r2  |
| Cont | [S1-221143](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221143.zip) | Samsung, LG Uplus, KT Corporation, SK Telecom, China Telecom, LG Electronics | Concerning Reply LS on MINT and Higher priority PLMN Selection | Noted |  |
| CR | [S1-221152](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221152r3.zip) | Samsung  | 22.011v17.5.0 Clarifications on PLMN search for FPLMN Registered UEs | Revised to S1-221209 | *WI* MINT *Rel-17 CR*0341*R- Cat F**R4 agreed* |
| CR | [S1-221209](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221209.zip) | Samsung  | 22.011v17.5.0 Clarifications on PLMN search for FPLMN Registered UEs | Agreed | *WI MINT Rel-17 CR0341R- Cat F*Revision of S1-221152.Same as 1209r4  |
| CR | [S1-221145](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221145.zip) | Samsung | 22.011v18.2.0 Clarifications on PLMN search for FPLMN Registered UEs | Revised to S1-221210 | *WI* MINT *Rel-18 CR*0340*R- Cat A**R4 agreed* |
| CR | [S1-221210](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221210.zip) | Samsung | 22.011v18.2.0 Clarifications on PLMN search for FPLMN Registered UEs | Agreed | *WI MINT Rel-18 CR0340R- Cat A**R4 agreed*Revision of S1-221145.Same as 1210r4 |
| **Service Requirement of TS22.011CR0326 e-Thread: [SA1#98e, LS S1-221178]** |
| TO | [S1-221178](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221178.zip) | C1-221742 | LS on Service Requirement of TS22.011CR0326 | Replied into 1047r1 |  |
| OUT | [S1-221047](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221047.zip) | Apple | Draft reply LS to CT1 on Service Requirement of TS22.011CR0326 | Revised to S1-221211 | R1 agreed ( fix dates of SA1, and right way of attachment, remove draft). |
| OUT | [S1-221211](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221211.zip) | Apple | Draft reply LS to CT1 on Service Requirement of TS22.011CR0326 | Agreed | Revision of S1-221047.Same as 1047r1 |
| CR | [S1-221048](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221048r1.zip) | Apple | 22.011v17.5.0 Clarification of Shared MCC definition | Revised to S1-221212 | *WI*  *Rel-17 CR*0335*R- Cat F**r2 agreed ( The definition will be updated to “*MCC assigned by ITU-T as shared MCC according to ITU-T E.212 [19], except within this specification for PLMN selection purposes the MCC of value 999 is not considered a shared MCC” ). |
| CR | [S1-221212](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221212.zip) | Apple | 22.011v17.5.0 Clarification of Shared MCC definition | Agreed | *WI 5GSAT Rel-17 CR0335R- Cat F*Revision of S1-221048.Same as 1048r2  |
| CR | [S1-221050](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221050.zip) | Apple | 22.011v18.2.0 Clarification of Shared MCC definition | Revised to S1-221213 | *WI*  *Rel-18 CR*0336*R- Cat A**r2 agreed ( The definition will be updated to “*MCC assigned by ITU-T as shared MCC according to ITU-T E.212 [19], except within this specification for PLMN selection purposes the MCC of value 999 is not considered a shared MCC” ). |
| CR | [S1-221213](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221213.zip) | Apple | 22.011v18.2.0 Clarification of Shared MCC definition | Agreed | *WI 5GSAT Rel-18 CR0336R- Cat A*Revision of S1-221050.Same as 1050r2 |
| CR | [S1-221138](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221138.zip) | Vodafone  | 22.011v17.5.0 Clarification for periodic network selection attempts | Merged into 1048r1 | *WI code*  *Rel-17 CR0338R- Cat F**Moved from 6.3* |
| CR | [S1-221141](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221141.zip) | Vodafone  | 22.011v18.2.0 Clarification for periodic network selection attempts | Merged into 1050r1 | *WI code*  *Rel-18 CR0339R- Cat A**Moved from 6.1* |
| **Emergency services and UE rejected with "PLMN not allowed to operate in the country of the UE’s location" e-Thread: [SA1#98e, LS S1-221180]** |
| TO | [S1-221180](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221180.zip) | C1-223045 | Emergency services and UE rejected with ""PLMN not allowed to operate in the country of the UE’s location"" | Replied in 1045r3 |  |
| OUT | [S1-221045](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221045r2.zip) | Apple | Draft reply LS to CT1 on Emergency services and UE rejected with "PLMN not allowed to operate in the country of the UE’s location" | Revised to S1-221290 | 1045r3 agreed (only include clean version) |
| OUT | [S1-221290](docs%5CS1-221290.zip) | Apple | Draft reply LS to CT1 on Emergency services and UE rejected with "PLMN not allowed to operate in the country of the UE’s location" | Agreed | *Same as 1045r3*Revision of S1-221045. |
| Cont | [S1-221046](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221046.zip) | Apple | Emergency services and UE rejected with "PLMN not allowed to operate in the country of the UE’s location" | Noted |  |
| OUT | [S1-221080](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221080.zip) | OPPO | Reply on 5GSAT emergency support | Noted |  |
| **IMS emergency communication improvement - SMS e-Thread: [SA1#98e, LS S1-221184]** |
| TO | [S1-221184](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221184.zip) | NRG\_012\_204 | LS reply from NRG to 3GPP on IMS emergency communication improvement - SMS | Replied into 1216r1 | Postponed from SA1#97e |
| TO | [S1-221182](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221182.zip) | EMTEL(22)000042 | LS response to 3GPP SA1 on IMS emergency communication improvement - SMS to emergency centre | Noted |  |
| WID | [S1-221153](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221153r2.zip) | Orange | SMS to emergency centre | Revised to S1-221219 | WID to Rel-18Moved from 41153r3 agreed (Section 5 SMS over IMS to emergency centre requirement + NO china mobile in supporting companies) |
| WID | [S1-221219](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221219.zip) | Orange | SMS to emergency centre | Agreed | *WID to Rel-18**Moved from 4**Same as 1153r3*  |
| CR | [S1-221155](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221155.zip) | Orange  | 22.101v18.3.0 SMS to emergency centre requirement | Noted | *WI ESMS Rel-18 CR*XXXX*R- Cat B**Moved from 6* |
| CR | [S1-221207](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221207r2.zip) | Orange  | 22.101v18.3.0 SMS to emergency centre requirement | Revised to S1-221220 | 1207r3 agreed (no changes on changes) |
| CR | [S1-221220](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221220.zip) | Orange  | 22.101v18.3.0 SMS to emergency centre requirement | Agreed | *Same as 1207r3* Revision of S1-221207. |
| LS | [S1-221216](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221216.zip) | Orange | Draft LS to GSMA reply on SMS to Emergency Center | Revised to S1-221221 | *1216r1 agreed (*Based on GSMA and ETSI requests to support SMS over IMS for emergency service in case of roaming and supported for emergency numbers such as 112 and 911, SA1 updated for Release 18 SA1 TS 22.101 by creating a new section on “Short Message Service over IMS to emergency centre” which was agreed with the attached Release 18 WID and Change Request. + Attach CR+ CC + Dates+ **GSMA NRG**) |
| LS | [S1-221221](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221221.zip) | Orange | Draft LS to GSMA reply on SMS to Emergency Center | Agreed | Same as 1216r1 Revision of S1-221216. |
| **Service requirements for emergency service support over ProSe Relays e-Thread: [SA1#98e, LS S1-221188]** |
| TO | [S1-221188](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221188.zip) | S2-2203130 | LS on service requirements for emergency service support over ProSe Relays | Replied into 1052r8 |  |
| OUT | [S1-221029](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221029.zip) | Qualcomm  | Reply LS on emergency service over ProSe Relays | Noted |  |
| CR | [S1-221030](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221030.zip) | Qualcomm  | 22.261v18.6.0 Clarification on Emergency support for relay UEs | Noted | *WI*  *Rel-18 CR*0640*R- Cat F* |
| OUT | [S1-221052](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221052r8.zip) | Apple | Draft Reply LS on service requirements for emergency service support over ProSe Relays | Revised to S1-221222 | 1052r8 agreed |
| OUT | [S1-221222](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221222.zip) | Apple | Draft Reply LS on service requirements for emergency service support over ProSe Relays | Agreed | *Same as 1052r8* Revision of S1-221052. |
| Cont | [S1-221163](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221163.zip) | Apple | Emergency service support over ProSe Relays | Noted |  |
| CR | [S1-221051](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221051r2.zip) | Apple | 22.261v18.6.0 Emergency service support over ProSe Relays | Noted | *WI*  *Rel-18 CR*0641*R- Cat F* |
| CR | [S1-221215](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221215r3.zip) | Apple | 22.101v18.6.0 Emergency service support over ProSe Relays | Revised to S1-221223 | *WI*  *Rel-18 CR584R- Cat F*1215r3 agreed |
| CR | [S1-221223](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221223.zip) | Apple | 22.101v18.6.0 Emergency service support over ProSe Relays | Agreed | *WI TEI18, FS\_5G\_ProSe\_Ph2 Rel-18 CR584R- Cat F**Same as 1215r3* Revision of S1-221215. |
| **Multiparty Real-time Text (RTT) in conference calling e-Thread: [SA1#98e, LS S1-221191]** |
| TO | [S1-221191](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221191.zip) | S4-220321 | LS on multiparty Real-time Text (RTT) in conference calling | Replied into 1198r1 |  |
| OUT | [S1-221198](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221198.zip) | Huawei | Draft Reply LS on multiparty Real-time Text (RTT) in conference calling | Revised to S1-221214 | r1 agreed (remove draft, updated dates SA1 meeting) |
| OUT | [S1-221214](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221214.zip) | Huawei | Draft Reply LS on multiparty Real-time Text (RTT) in conference calling | Agreed | Revision of S1-221198.Same as 1198r1  |
| **PIN Application Server Discovery e-Thread: [SA1#98e, LS S1-221193]** |
| TO | [S1-221193](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221193.zip) | S6-220852 | LS on PIN Application Server Discovery | Replied into 1031r3 |  |
| OUT | [S1-221031](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221031r2.zip) | InterDigital | Reply LS on PIN Application Server Discovery | Revised to S1-221217 | r3 (no draft and no track changes) |
| OUT | [S1-221217](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221217.zip) | InterDigital | Reply LS on PIN Application Server Discovery | Agreed | *Same as 1031r3* Revision of S1-221031. |
| **Issues Network Slice information delivery to a 3rd party e-Thread: [SA1#98e, LS S1-221202]** |
| TO | [S1-221202](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221202.zip) | S6-220975 | LS on Issues Network Slice information delivery to a 3rd party | Replied into 1205r10 |  |
| Cont | [S1-221142](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221142.zip) | Samsung | Application Enablement Standards in SA6 | Noted |  |
| OUT | [S1-221205](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221205r9.zip) | Samsung | LS reply | Revised to S1-221224 | 1205r10 agreed(put SA5 in CC + no action to SA5 + dates+ and new first response “There is no stage 1 service requirement pertaining to exposure of network slice information prior to network slice creation.It is up to the network operator to configure whether, how and which parameters can be exposed regarding existing contracts - e.g. as part of a service level agreement, through OAM or other interfaces (including interfaces specified by 3GPP). SA1 leaves it to SA5 to clarify the details of exposure aspects of network slices.”) |
| OUT | [S1-221224](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221224.zip) | Samsung | LS reply | Agreed | *Same as 1205r10* Revision of S1-221205. |
| CR | [S1-221206](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221206.zip) | Samsung | CR Issues Network Slice information delivery to a 3rd party | Noted | Orig. for approval day |
| **LS proposed to note e-Thread: [SA1#97e, LS ToNote]** |
| TO | [S1-221183](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221183.zip) | ls310-16 | LS on a new work item for media transport protocols, signalling information of haptic transmission for Immersive Live Experience (ILE) systems | Noted |  |
| CC | [S1-221177](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221177.zip) | C1-221600 | LS on UAC enhancements and system information extensions for minimization of service interruption | Noted |  |
| CC | [S1-221179](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221179.zip) | C1-223044 | Reply LS on ""Indication of country of UE location"" | Noted |  |
| CC | [S1-221186](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221186.zip) | S2-2201844 | Reply LS on Use, if any, of network provided ""Indication of country of UE location"" | Noted |  |
| CC | [S1-221181](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221181.zip) | C4-222306 | LS on Indication of Network Assisted Positioning method | Noted |  |
| CC | [S1-221185](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221185.zip) | EUWENA | LS on presentation of EUWENA and involvement in 3GPP on Non Public Network | Noted |  |
| CC | [S1-221187](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221187.zip) | S2-2201845 | Reply LS on validity of cause value #78 | Noted |  |
| CC | [S1-221189](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221189.zip) | S2-2203419 | Reply LS on the scope of applying Network Slicing feature in Rel-17 and Rel-16 | Noted |  |
| CC | [S1-221192](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221192.zip) | S6-220265 | Reply LS on Prioritized Vehicle to Cloud Technical Solutions (Automotive Edge Computing Consortium (AECC)) | Noted |  |
| CC | [S1-221194](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221194.zip) | S6-220932 | LS on network slice LCM consumption and use cases | Noted |  |
| CC | [S1-221195](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221195.zip) | SP-220337 | LS on Text Proposal toward ITU-R draft Report ITU-R M.[IMT.INDUSTRY] | Noted |  |
| CC | [S1-221196](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221196.zip) | SP-220347 | LS on Alignment concerning 5G RG requirements and its remote management | Noted |  |
| TO | [S1-221190](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221190.zip) | S3-214337 | LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT | Noted |  |
| New Study and Work Items (including related contributions) |
| **Revised SIDs** |
| SID | [S1-221032](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221032r2.zip) | OPPO | Revised SID on AI/ML Model Transfer Phase 2 (FS\_AIML\_Ph2) | Revised to S1-221225 | **e-Thread: [SA1#98e, FS\_AIMLPh2\_RevSID]**1032r2 agreed |
| SID | [S1-221225](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221225.zip) | OPPO | Revised SID on AI/ML Model Transfer Phase 2 (FS\_AIML\_Ph2) | Agreed | ***e-Thread: [SA1#98e, FS\_AIMLPh2\_RevSID]****Same as 1032r2*Revision of S1-221032. |
| SID | [S1-221199](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221199.zip) | Alibaba | Revised SID on Ambient power-enabled IoT SID | Noted | **e-Thread: [SA1#98e, FS\_AmbientIoT\_RevSID]** |
| Cont | [S1-221161](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221161.zip) | Alibaba  | Discussion on adding Co-Rapporteur for Ambient power-enabled IoT | Noted | Moved from 7.3 |
| WID | [S1-221082](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221082r1.zip) | OPPO | Revision of WID on AI/ML model transfer in 5GS  | Revised to S1-221226 | 1082r1 agreed |
| WID | [S1-221226](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221226.zip) | OPPO | Revision of WID on AI/ML model transfer in 5GS  | Agreed | *Same as 1082r1* Revision of S1-221082. |
| SID  | [S1-221083](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221083.zip) | OPPO | Revision of WID on Study on traffic characteristics and performance requirements for AI/ML model transfer in 5GS  | Revised to S1-221227 | 1083r1 agreed |
| SID  | [S1-221227](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221227.zip) | OPPO | Revision of WID on Study on traffic characteristics and performance requirements for AI/ML model transfer in 5GS  | Agreed | *Same as 1083r1* Revision of S1-221083 |
| SID  | [S1-221128](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221128.zip) | UIC | Revised FS\_eFRMCS SID to align multiple FRMCS stages | Agreed | Moved from 5 |
| SID | [S1-221130](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221130.zip) | UIC | Revised FS\_FRMCS\_Ph3 SID to align multiple FRMCS stages | Agreed | Moved from 5 |
| **Mini WIDs** |
| WID | [S1-221153](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221153.zip) | Orange | SMS to emergency centre | Moved to 3 | WID to Rel-18Minimum 4 supporting companies |
| WID | [S1-221059](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221059r2.zip) | China Mobile  | New WID on 5G enhanced Customized Alerting Tones and Customized Ringing Signal | Noted | **e-Thread: [SA1#98e, eCAT&CRS]** WID to Rel-18 Minimum 4 supporting companies1059r3 for approval dayO: Nokia |
| Cont | [S1-221060](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221060.zip) | China Mobile  | Motivation of supporting 5G enhanced Customized Alerting Tones (CAT) and Customized Ringing Signal (CRS) | Noted | **e-Thread: [SA1#98e, eCAT&CRS]** |
| CR | [S1-221061](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221061r1.zip) | China Mobile  | 22.183v17.0.0 CRS interaction | Noted | **e-Thread: [SA1#98e, eCAT&CRS]***WI* eCAT&CRS *Rel-18 CR0004R- Cat B**Orig.* for approval day |
| CR | [S1-221063](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221063.zip) | China Mobile  | 22.182v17.0.0 Adaptive resolution for playing multi-media CAT | Noted | **e-Thread: [SA1#98e, eCAT&CRS]***WI* eCAT&CRS *Rel-18 CR*0024*R- Cat B**Orig.* for approval day |
| CR | [S1-221065](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221065.zip) | China Mobile  | 22.182v17.0.0 CAT interaction | Noted | **e-Thread: [SA1#98e, eCAT&CRS]***WI* eCAT&CRS *Rel-18 CR*0026*R- Cat B**1065r02* for approval day |
| WID | [S1-221094](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221094.zip) | vivo | New WID on enhanced network exposure capability with critical information preserving  | Noted |  |
| Cont | [S1-221095](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221095.zip) | vivo | Discussion on enhanced network exposure capability with critical information preserving | Noted |  |
| WID | [S1-221022](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221022.zip) | Saankhya Labs, IIT Bombay | Usage of Non-3GPP NTN for Multicast Broadcast Services (MBS) in 5GS | Noted |  |
| WID | [S1-221023](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221023.zip) | Saankhya Labs, IIT Bombay | Usage of Non-3GPP DTT Broadcast Networks for Multicast/Broadcast Services (MBS) in 5GS | Noted |  |
| CR | [S1-221024](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221024.zip) | Saankhya Labs, IIT Bombay, Ligado Networks, One Media 3.0, Fraunhofer IIS, CEWiT, Tejas Networks, IIT Kanpur, IIT Madras, IIT Hyderabad, IIT Kharagpur | 22.261v18.6.0 Usage of Non-3GPP NTN (Satellite access network) for Multicast Broadcast Services in 5GS | Noted | *WI* Sat4MBS *Rel-18 CR*0638*R1 Cat B* |
| CR | [S1-221025](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221025.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 | 22.261v18.6.0 Usage of Non-3GPP DTT Broadcast Networks for Multicast/Broadcast Services in 5GS | Noted | *WI* Sat4MBS *Rel-18 CR*0639*R1 Cat B* |
|  | [S1-221062](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221062.zip) | China Mobile  | CAT interaction | Withdrawn |  |
|  | [S1-221064](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221064.zip) | China Mobile  | CAT interaction | Withdrawn |  |
| **REl-19 SID candidates** |
| SIDs moderated by **Jose Almodovar** |
| **FS\_LocTime e-Thread: [SA1#98e, SID\_R19 – FS\_LocTime]** |
| SID | [S1-221067](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221067.zip) | NICT | Study on Non-Universal Time | Noted | 4 supporting companies needed |
| Cont | [S1-221068](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221068r1.zip) | NICT | Study on Non-Universal Time | Noted | Reduce to 4 slides |
| **FS\_RVAS e-Thread: [SA1#98e, SID\_R19 – FS\_RVAS]** |
| SID | [S1-221123](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221123r6.zip) | Ericsson, Deutsche Telekom, Vodafone, KPN | Study on roaming value added services | Revised to S1-221228 | 1123r10 for approval dayNo comments |
| SID | [S1-221228](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221228.zip) | Ericsson, Deutsche Telekom, Vodafone, KPN | Study on roaming value added services | Agreed | *Same as 1123r10* Revision of S1-221123. |
| Cont | [S1-221124](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221124.zip) | Ericsson | Motivation for SID on roaming value added services | Noted |  |
| **FS\_SigAsServ e-Thread: [SA1#98e, SID\_R19 – FS\_SigAsServ]** |
| SID | [S1-221036](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221036r3.zip) | IIT Bombay | New SID on treating (UE) signalling as a user service | Noted |  |
| Cont | [S1-221204](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221204r1.zip) | IIT Bombay | Motivation treating (UE) signalling as a user service | Noted |  |
| Cont | [S1-221056](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221056.zip) | IIT Bombay | Draft Skeleton for TR for study on treating (UE) signalling as a user service | Noted |  |
| **FS\_ 5GSAT\_Ph3 e-Thread: [SA1#98e, SID\_R19 – FS\_5GSAT\_Ph3]** |
| SID | [S1-221167](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221167r5.zip) | NOVAMINT, TNO, ESA, Avanti, Intelsat, Eutelsat, Sateliot, GateHouse, Hughes Network systems, Viasat, IIIT Hyderabad | New SID on satellite access Phase 3 | Revised to S1-221229 | 1167r6 agreed (no track changeS)  |
| SID | [S1-221229](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221229.zip) | NOVAMINT, TNO, ESA, Avanti, Intelsat, Eutelsat, Sateliot, GateHouse, Hughes Network systems, Viasat, IIIT Hyderabad | New SID on satellite access Phase 3 | Agreed | Same as 1167r6 Revision of S1-221167. |
| Cont | [S1-221026](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221026.zip) | THALES | Additional capabilities for Rel-19 | Noted |  |
| Cont | [S1-221168](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221168.zip) | NOVAMINT, TNO, ESA, Avanti, Intelsat, Eutelsat, Sateliot, GateHouse, Hughes Network systems, Viasat, IIIT Hyderabad | Motivation for a SID on Study on satellite access - Phase 3 | Noted |  |
| Cont | [S1-221169](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221169.zip) | NOVAMINT | TR skeleton for Study on satellite access - Phase 3 | Noted |  |
| SID | [S1-221127](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221127.zip) | China Telecom,CATT, China Mobile, Xiaomi | New SID on satellite access Phase 3 | Merge into 1167r2 |  |
| Cont | [S1-221126](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221126.zip) | China Telecom | 5GSAT\_Ph3 Way-Forward | Noted |  |
| Cont | [S1-221203](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221203.zip) | CATT, China Telecom | Discussion on new use cases  for  FS\_5GSAT\_Ph3 | Noted |  |
| **FS\_UAV\_Ph3 e-Thread: [SA1#98e, SID\_R19 – FS\_UAV\_Ph3]** |
| SID | [S1-221039](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221039r6.zip) | China Mobile  | New SID on UAV Phase 3 | Revised to S1-221230 | R7 agreed “(Obj 3 drone ->UAV, Numbering of notes and Note 2: Note 2: Potential overlaps with ongoing stage-2 work (on UAS), and other S1 studies (e.g. FS\_Sensing) should be considered and avoided.)” |
| SID | [S1-221230](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221230.zip) | China Mobile  | New SID on UAV Phase 3 | Agreed | Same as R7 Revision of S1-221039. |
| Cont | [S1-221040](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221040.zip) | China Mobile  | Motivation of UAV Phase 3 | Noted |  |
| Cont | [S1-221057](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221057.zip) | Qualcomm | Proposal on multi-NW connectivity for Drones | Noted |  |
| Cont | [S1-221041](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221041.zip) | China Mobile  | pCR FS\_UAV\_Ph3 Scope | Noted |  |
| Cont | [S1-221042](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221042.zip) | China Mobile  | pCR FS\_UAV\_Ph3 Skeleton | Noted |  |
| SIDs moderatedby **Yusuke Nakano** |
| **FS\_DualSteer e-Thread: [SA1#98e, SID\_R19 – FS\_DualSteer]** |
| SID | [S1-221017](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221017r7.zip) | Qualcomm  | New SID on ULTRAS | Revised to S1-221231 | 1017r7 agreed |
| SID | [S1-221231](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221231.zip) | Qualcomm  | New SID on ULTRAS | Agreed | Same as 1017r7 Revision of S1-221017. |
| Cont | [S1-221018](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221018.zip) | Qualcomm  | ULTRAS - Motivations | Noted |  |
| Cont | [S1-221101](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221101.zip) | vivo, Charter Communications | Discussion on ULTRAS study with dual 3GPP accesses using dual subscriptions of one operator | Noted |  |
| **FS\_LiveMigr e-Thread: [SA1#98e, SID\_R19 – FS\_LiveMigr]** |
| SID | [S1-221121](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221121r4.zip) | China Telecom | New study on Live Migratable Services in the 5G System | Noted | 1121r4 for approval dayO: Nokia, T-Mobile |
| Cont | [S1-221122](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221122.zip) | CTSI | Discussion on Live Migratable Services in the 5G System | Noted |  |
| **FS\_MINT\_Ph2 e-Thread: [SA1#98e, SID\_R19 – FS\_MINT\_Ph2]** |
| SID | [S1-221037](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221037r2.zip) | China Telecom | New SID on Minimization of Service Interruption Phase 2 | Noted |  |
| Cont | [S1-221038](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221038.zip) | China Telecom | Discussion on Minimization of Service Interruption Phase 2 | Noted |  |
| Cont | [S1-221146](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221146.zip) | Samsung | Motivation for: New SID on Minimization of Service Interruption Phase 2 | Noted |  |
| **FS\_EnergieServ e-Thread: [SA1#98e, SID\_R19 – FS\_ServiceServ]** |
| SID | [S1-221072](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221072r8.zip) | China Mobile  | New SID on service enhancement of Energy Efficiency | Revised to S1-221232 | 1072r9 agreed (Define and support energy efficiency criteria as part of communication service to user and application services. Support information exposure on systematic energy consumption or level of energy efficiency to vertical customers.) |
| SID | [S1-221232](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221232.zip) | China Mobile  | New SID on service enhancement of Energy Efficiency | Agreed | Same as 1072r9 Revision of S1-221072. |
| Cont | [S1-221073](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221073.zip) | China Mobile  | Motivation of study on service enhancement of Energy Efficiency | Noted |  |
| Cont  | [S1-221074](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221074.zip) | China Mobile  | TR Skeleton of New SID on service enhancement of Energy Efficiency | Noted |  |
| Cont | [S1-221075](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221075.zip) | China Mobile  | pCR FS\_ServiceEE Scope | Noted |  |
| **FS\_MultiRelay e-Thread: [SA1#98e, SID\_R19 – FS\_MultiRelay]** |
| SID | [S1-221107](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221107r5.zip) | China Telecom | New SID on Multi-hop Multi-path Relay | Noted | 1107r9 for approval dayO: Sony, Nokia |
| Cont | [S1-221109](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221109.zip) | ZTE | SID MMRelay working proposal | Noted |  |
| Cont | [S1-221106](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221106.zip) | ZTE | Motivations for Multi-hop multi-path relay for direct device connection | Noted |  |
| Cont | [S1-221108](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221108.zip) | China Telecom | Discussion on Multi-hop Multi-path Relay | Noted |  |
| Cont | [S1-221150](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221150.zip) | Xiaomi | DP on MMRelay | Noted |  |
| SIDs moderated by **Xu Xia** |
| **FS\_SOBOT e-Thread: [SA1#98e, SID\_R19 – FS\_SOBOT]** |
| SID | [S1-221027](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221027r2.zip) | LG Electronics  | Study on Network of Service Robots with Ambient Intelligence | Revised to S1-221233 | 1027r4 agreed (accept all track changes + Sony as supporting company+ Correct meeting number in section 5) |
| SID | [S1-221233](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221233.zip) | LG Electronics  | Study on Network of Service Robots with Ambient Intelligence | Agreed | *Same as 1027r4* Revision of S1-221027. |
| Cont | [S1-221028](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221028.zip) | LG Electronics  | Discussion on Network of Service Robots with Ambient Intelligence | Noted |  |
| **FS\_MeasureData e-Thread: [SA1#98e, SID\_R19 – FS\_MeasureData]** |
| SID | [S1-221020](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221020r3.zip) | ZTE, CEPRI, China Telecom, China Unicom | Study on Measurement Data Collection and Integrity | Revised to S1-221234 |  |
| SID | [S1-221234](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221234.zip) | ZTE, CEPRI, China Telecom, China Unicom | Study on Measurement Data Collection and Integrity | Noted | Revision of S1-221020. |
| Cont | [S1-221021](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221021.zip) | ZTE | Discussion paper for Measurement Data Collection and Integrity | Noted |  |
| Cont  | [S1-221119](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221119.zip) | ZTE | FS\_MDataCl: TR 22.XXX skeleton | Noted |  |
| **FS\_Comput e-Thread: [SA1#98e, SID\_R19 – FS\_Comput]** |
| SID | [S1-221076](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221076r3.zip) | China Mobile  | New SID on supporting computing aware network | Noted | 1076r4 for approval dayO: Ericsson |
| Cont | [S1-221077](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221077r1.zip) | China Mobile  | Motivation of supporting computing aware network | Noted |  |
| Cont | [S1-221093](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221093.zip) | China Telecom | Study on supporting computing aware network working proposal | Noted |  |
| Cont  | [S1-221078](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221078.zip) | China Mobile  | TR Skeleton of New SID on supporting computing aware network | Noted |  |
| Cont | [S1-221079](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221079.zip) | China Mobile  | pCR FS\_CAN Scope | Noted |  |
| **FS\_PIN\_ph2 e-Thread: [SA1#98e, SID\_R19 – FS\_PIN\_ph2]** |
| SID | [S1-221096](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221096.zip) | vivo | Study on Personal IoT Networks phase 2 | Revised to S1-221235 |  |
| SID | [S1-221235](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221235.zip) | vivo | Study on Personal IoT Networks phase 2 | Noted | Revision of S1-221096. |
| **FS\_OnlineDir e-Thread: [SA1#98e, SID\_R19 – FS\_OnlineDir]** |
| SID | [S1-221110](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221110r1.zip) | Xiaomi  | New SID on 5GS supporting Mobile User Service | Noted |  |
| Cont | [S1-221112](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221112.zip) | Xiaomi  | Discussion for 5GS supporting Mobile User Service (FS\_5GMUS) | Noted |  |
| Cont | [S1-221137](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221137.zip) | Xiaomi | DP on MMRelay | Withdrawn | Document not available and same name than 1150 |
| Cont | S1-221139 | Xiaomi | DP on MMRelay | Withdrawn |  |
| 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 | [S1-221140](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221140.zip) | Huawei  | 22.101v18.3.0 Clean-up of the references for quality improvement | Agreed | **e-Thread: [SA1#98e, CR\_Quality- 1]***WI code* TEI18 *Rel-18 CR0582R- Cat D*Orig. agreed |
| SID | [S1-221128](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221128.zip) | UIC | Revised FS\_eFRMCS SID to align multiple FRMCS stages | Moved to 4 |  |
| SID | [S1-221130](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221130.zip) | UIC | Revised FS\_FRMCS\_Ph3 SID to align multiple FRMCS stages | Moved to 4 |  |
| Rel-18 and earlier contributions |
| Rel-18 correction and clarification CRs |
| CR | [S1-221089](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221089r1.zip) | ETRI, KT Corp, SK Telecom, LG Uplus | 22.268v18.0.0 Alignment of KPAS requirements | Revised to S1-221236 | ***e-Thread:* [SA1#98e, CR\_Rel18- 1]***WI code* TEI18 *Rel-18 CR0072R- Cat B*R2 agreed (Accept format changes, update the date).  |
| CR | [S1-221236](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221236.zip) | ETRI, KT Corp, SK Telecom, LG Uplus | 22.268v18.0.0 Alignment of KPAS requirements | Agreed | ***e-Thread: [SA1#98e, CR\_Rel18- 1]****WI code TEI18 Rel-18 CR0072R- Cat B**Same as 1089r2* **Revision of S1-221089.** |
| CR | [S1-221132](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221132.zip) | UIC | 22.989v18.4.0 Call restriction based on subparts of functional identities | Revised to S1-221237 | ***e-Thread:* [SA1#98e, CR\_Rel18- 2]***WI code FS\_eFRMCS Rel-18 CR0015R- Cat C*1132r2 agreed (new WI\_Code) |
| CR | [S1-221237](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221237.zip) | UIC | 22.989v18.4.0 Call restriction based on subparts of functional identities | Agreed | ***e-Thread: [SA1#98e, CR\_Rel18- 2]****WI code FS\_eFRMCS Rel-18 CR0015R- Cat C**Same as 1132r2* **Revision of S1-221132.** |
| CR | [S1-221134](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221134.zip) | UIC | 22.280v18.1.0 Call restriction based on subparts/elements of functional alias  | Revised to S1-221238 | ***e-Thread:* [SA1#98e, CR\_Rel18- 3]***WI code* TEI18 *Rel-18 CR0152R- Cat C*1134r1 agreed |
| CR | [S1-221238](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221238.zip) | UIC | 22.280v18.1.0 Call restriction based on subparts/elements of functional alias  | Agreed | ***e-Thread: [SA1#98e, CR\_Rel18- 3]****WI code TEI18 Rel-18 CR0152R- Cat C**Same as 1134r1* **Revision of S1-221134.** |
| CR | [S1-221135](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221135r4.zip) | UIC | 22.280v18.1.0 Clarification of Formats for Location Information | Revised to S1-221239 | ***e-Thread:* [SA1#98e, CR\_Rel18- 4]***WI code* TEI18 *Rel-18 CR0153R- Cat C*1135r5 (no track changes on cover page+ removing single character after geography)  |
| CR | [S1-221239](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221239.zip) | UIC | 22.280v18.1.0 Clarification of Formats for Location Information | Agreed | ***e-Thread: [SA1#98e, CR\_Rel18- 4]****WI code TEI18 Rel-18 CR0153R- Cat C**Same as 1135r5* **Revision of S1-221135.** |
| CR | [S1-221136](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221136.zip) | UIC | 22.280v18.1.0 Enhanced MCX Service Ad hoc Group Communication to support Railway needs  | Revised to S1-221240 | ***e-Thread:* [SA1#98e, CR\_Rel18- 5]***WI code* TEI18 *Rel-18 CR0154R- Cat C*1136r3 agreed |
| CR | [S1-221240](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221240.zip) | UIC | 22.280v18.1.0 Enhanced MCX Service Ad hoc Group Communication to support Railway needs  | Agreed | ***e-Thread: [SA1#98e, CR\_Rel18- 5]****WI code TEI18 Rel-18 CR0154R- Cat C**Same as 1136r3* **Revision of S1-221136.** |
| CR | [S1-221141](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221141.zip) | Vodafone  | 22.011v18.2.0 Clarification for periodic network selection attempts | Moved to 6.3 | *WI code Rel-18 CR0339R- Cat A* |
| CR | [S1-221155](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221155.zip) | Orange  | 22.101v18.3.0 SMS to emergency centre requirement | Moved to 3 | *WI ESMS Rel-18 CR*XXXX*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 | [S1-221033](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221033.zip) | Deutsche Telekom | 22.101v17.4.0 Removal of non-implemented UIA requirements | Revised to S1-221241 | ***e-Thread:* [SA1#98e, CR\_Rel17- 1]***WI code*  *Rel-17 CR0581R- Cat F*1033r1 is agreed |
| CR | [S1-221241](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221241.zip) | Deutsche Telekom | 22.101v17.4.0 Removal of non-implemented UIA requirements | Agreed | ***e-Thread: [SA1#98e, CR\_Rel17- 1]****WI code UIA Rel-17 CR0581R- Cat F**Same as 1033r1* **Revision of S1-221033.** |
| CR | [S1-221034](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221034.zip) | Deutsche Telekom | 22.115v17.0.0 Removal of UIA charging requirements | Revised to S1-221242 | ***e-Thread:* [SA1#98e, CR\_Rel17- 1]***WI code*  *Rel-17 CR0107R- Cat F*1034r1 is agreed |
| CR | [S1-221242](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221242.zip) | Deutsche Telekom | 22.115v17.0.0 Removal of UIA charging requirements | Agreed | ***e-Thread: [SA1#98e, CR\_Rel17- 1]****WI code UIA Rel-17 CR0107R- Cat F**Same as 1034r1* **Revision of S1-221034.** |
|  | [S1-221019](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221019.zip) | ETRI, KT Corp, SK Telecom, LG Uplus | Addition of KPAS specific requirements | Withdrawn |  |
|  | S1-221133 | Vodafone  | Clarification for periodic network selection attempts | Withdrawn |  |
| Rel-17 and earlier CRs (other than alignment) |
| CR | [S1-221117](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221117r1.zip) | TNO, KPN, one2many, MINEA, Netherlands Police | 22.268v17.0.0 Device based geo-fencing for EU-alert | Noted | ***e-Thread:* [SA1#98e, CR\_Others- 1]***WI code* TEI17 *Rel-17 CR0068R3 Cat B* |
| CR | [S1-221154](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221154.zip) | TNO, MINEA, Netherlands Police, one2many, SynchTechno Inc | 23.041v17.3.0 Device based geo-fencing for EU-alert | Noted | ***e-Thread:* [SA1#98e, CR\_Others- 1]***WI code* TEI17 *Rel-17 CR0231R- Cat F* |
| CR | [S1-221200](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221200.zip) | SyncTechno Inc. | 22.268v17.0.0 Re-introducing relay requirements for public warning services | Noted | ***e-Thread:* [SA1#98e, CR\_Others- 2**]*WI code ePWS Rel-17 CR0073R- Cat F* |
| CR | [S1-221201](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221201.zip) | SyncTechno Inc. | 22.268v18.0.0 Re-introducing relay requirements for public warning services | Agreed | ***e-Thread:* [SA1#98e, CR\_Others- 2]***WI code ePWS Rel-18 CR0074R- Cat F* |
| CR | [S1-221138](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221138.zip) | Vodafone  | 22.011v17.5.0 Clarification for periodic network selection attempts | Moved to 3 | *WI code*  *Rel-17 CR0338R- Cat F* |
|  | S1-221015 | ETRI, KT, SKT, LG Uplus | Additional KPAS specific requirements | Withdrawn |  |
|  | S1-221016 | ETRI | Additional KPAS specific requirements | Withdrawn |  |
| 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: Mark Younge# e-threads: 6**General** |
| **General**  |
| Cont | [S1-221170](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221170r4.zip) | Hansung University, KT, LGUplus, ETRI | Pseudo-CR on suggesting definitions of RAILSS | Revised to S1-221243 | **e-Thread: [SA1#98e, FS\_RAILSS - 1]**1170r5 agreed (No comments+ delete “it is a kind of”) |
| Cont | [S1-221243](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221243.zip) | Hansung University, KT, LGUplus, ETRI | Pseudo-CR on suggesting definitions of RAILSS | Approved | ***e-Thread: [SA1#98e, FS\_RAILSS - 1]****Same as 1170r5* **Revision of S1-221170.** |
| Cont | [S1-221171](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221171.zip) | Hansung University, LGUplus, KT, ETRI | Pseudo-CR on suggesting contents for overview of TR22.890 | Revised to S1-221244 | **e-Thread: [SA1#98e, FS\_RAILSS - 1]**1171r2 papproved |
| Cont | [S1-221244](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221244.zip) | Hansung University, LGUplus, KT, ETRI | Pseudo-CR on suggesting contents for overview of TR22.890 | Approved | ***e-Thread: [SA1#98e, FS\_RAILSS - 1]****Same as 1171r2* **Revision of S1-221171.** |
| **Use cases** |
| Cont  | [S1-221054](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221054.zip) | KRRI | Use case of multiple trains’ stops at the same platform | Revised to S1-221245 | **e-Thread: [SA1#98e, FS\_RAILSS - 2]**1054r8 pre-approved |
| Cont  | [S1-221245](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221245.zip) | KRRI | Use case of multiple trains’ stops at the same platform | Agreed | ***e-Thread: [SA1#98e, FS\_RAILSS - 2]****Same as 1054r8* **Revision of S1-221054.** |
| Cont | [S1-221157](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221157r5.zip) | Kyonggi University | Multiple concurrent mobility services | Revised to S1-221246 | **e-Thread: [SA1#98e, FS\_RAILSS - 3]**1157r5 agreed |
| Cont | [S1-221246](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221246.zip) | Kyonggi University | Multiple concurrent mobility services | Approved | ***e-Thread: [SA1#98e, FS\_RAILSS - 3]****Same as 1157r5* Revision of S1-221157. |
| Cont | [S1-221172](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221172.zip) | Hansung University, LGUplus, KT, ETRI | Pseudo-CR on a use case for the operation of platform screen doors of the smart railway | Noted | **e-Thread: [SA1#98e, FS\_RAILSS – 4]**1172r1 for approval day |
| Cont | [S1-221173](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221173.zip) | Hansung University, LGUplus, KT, ETRI | Pseudo-CR on automatic monitoring of smart station | Noted | **e-Thread: [SA1#98e, FS\_RAILSS - 5]**1173r1 for approval day |
| Cont | [S1-221174](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221174r3.zip) | Hansung University, LGUplus, KT, ETRI | Pseudo-CR on a use case of smart kiosk of railway smart station | Revised to S1-221247 | **e-Thread: [SA1#98e, FS\_RAILSS - 6]**1174r4 agreed (we remove the table and requirements without number + no comments)  |
| Cont | [S1-221247](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221247.zip) | Hansung University, LGUplus, KT, ETRI | Pseudo-CR on a use case of smart kiosk of railway smart station | Approved | ***e-Thread: [SA1#98e, FS\_RAILSS - 6]****Same as 1174r4* Revision of S1-221174. |
| RAILSS output |
| TR | S1-221248 | Rapporteur (Hansung University) | TR22.890v0.6.0 Study on Supporting of Railway Smart Station Services | Agreed | First draft by Monday 23rd 23:00 UTCComments till Wed 25th 23:00UTCFinal version by Thurs 26th 23:00UTC |
| FS\_Sensing: Study on Integrated Sensing and Communication [[SP-220084](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220084.zip)] |
| **Work status prior to this meeting:**Rapporteur: Vasil Aleksiev (Deutsche Telekom)Latest version: TR 22.837Target completion date: SA#100 (06/2023)Percentage completion: 0% | **Details e-mail discussion** : Moderator: Toon Norp# e-threads: 13**Block A** |
| **General**  |
| Cont | [S1-221014](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221014.zip) | Deutsche Telekom | Feasibility Study on Integrated Sensing and Communication | Revised to S1-221249 | **e-Thread: [SA1#98e, FS\_Sensing-skeleton]**1014r2 approved |
| Cont | [S1-221249](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221249.zip) | Deutsche Telekom | Feasibility Study on Integrated Sensing and Communication | Approved | ***e-Thread: [SA1#98e, FS\_Sensing-skeleton]****Same as 1014r2* Revision of S1-221014. |
| Cont | [S1-221114](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221114r8.zip) | Xiaomi  | Sensing Definition and Roles | Noted | **e-Thread: [SA1#98e, FS\_Sensing-1]** |
| Cont | [S1-221115](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221115r5.zip) | Xiaomi  | Sensing mode | Noted | **e-Thread: [SA1#98e, FS\_Sensing-2]**1115r5 for approval day |
| Cont | [S1-221147](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221147.zip) | Samsung | pCR 22.837 – Capturing the relationship between Integrated Sensing and Communication and Metaverse Services | Noted | **e-Thread: [SA1#98e, FS\_Sensing-3]** |
| **Use cases** |
| Cont | [S1-221069](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221069r9.zip) | vivo | Use case of “Contactless sensing in smart health monitoring” | Noted | **e-Thread: [SA1#98e, FS\_Sensing-4]**1069r9 available |
| Cont | [S1-221071](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221071r4.zip) | OPPO | Use case of intelligent monitoring in smart home | Revised to S1-221250 | **e-Thread: [SA1#98e, FS\_Sensing-5]**1071r5 approved (Editor’s Note in second requirement + deleted req #4 and table and editors note KPIs is FFS). |
| Cont | [S1-221250](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221250.zip) | OPPO | Use case of intelligent monitoring in smart home | Approved | ***e-Thread: [SA1#98e, FS\_Sensing-5]****Same as 1071r5* Revision of S1-221071. |
| Cont | [S1-221091](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221091.zip) | Qualcomm  | Coordinated Sensing Operations | Noted | **e-Thread: [SA1#98e, FS\_Sensing-6]**1091r9 for approval dayO: DT, Nokia, Vodafone |
| Cont | [S1-221098](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221098r5.zip) | China Mobile  | New use case\_Sensing for UAV management | Noted | **e-Thread: [SA1#98e, FS\_Sensing-7]** |
| Cont | [S1-221104](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221104r4.zip) | Huawei, China Telecom, vivo | New use case: Sensing for Smart Transportation | Revised to S1-221251 | **e-Thread: [SA1#98e, FS\_Sensing-8]**1104r5 approved(Editor’s note to req #2 + Editor’s note: to clarify terminology + Editor’s note: KPIs for this use case are FFS)  |
| Cont | [S1-221251](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221251.zip) | Huawei, China Telecom, vivo | New use case: Sensing for Smart Transportation | Approved | ***e-Thread: [SA1#98e, FS\_Sensing-8]****Same as 1104r5* **Revision of S1-221104.** |
| Cont | [S1-221105](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221105r7.zip) | China Telecom | FS\_Sensing: Use Case of Weather Monitoring | Revised to S1-221252 | **e-Thread: [SA1#98e, FS\_Sensing-9]**1105r8 approved (delete req #3 +[PR. 5.x.6 - 002] Based on operator’s policy the 5G system shall support mechanisms to provide NR based sensing measurement capabilities to derive the sensing results.[PR. 5.x.6 - 004] Based on operator’s policy the 5G system shall provide mechanisms to expose NR based sensing results to a trusted 3rd party application via the core network.+ Editor’s Note: these requirements are FFS+ Editor’s Note: Any KPIs is for further studied.) |
| Cont | [S1-221252](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221252.zip) | China Telecom | FS\_Sensing: Use Case of Weather Monitoring | Approved | ***e-Thread: [SA1#98e, FS\_Sensing-9]****Same as 1105r8* **Revision of S1-221105.** |
| Cont | [S1-221111](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221111.zip) | Xiaomi  | New use case of sensing for ADAS | Noted | **e-Thread: [SA1#98e, FS\_Sensing-10]**1111r7for approval dayO: DT |
| Cont | [S1-221113](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221113r6.zip) | ZTE | Network based UAV collision avoidance | Noted | **e-Thread: [SA1#98e, FS\_Sensing-11]** |
| Cont | [S1-221165](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221165.zip) | Intel  | FS\_Sensing Use Case: Autonomous/Assisted Driving | Noted | **e-Thread: [SA1#98e, FS\_Sensing-12]**1165r02for approval dayO:Nokia, DT |
| Cont  | [S1-221175](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5CDocs%5CS1-221175.zip) | Philips  | New use case on distributed wireless sensing  | Noted | **e-Thread: [SA1#98e, FS\_Sensing-13]**1175r4for approval dayO: Nokia |
| FS\_Sensing output |
| TR | S1-221253 | Rapporteur (Deutsche Telekom) | TR 22.837v0.1.0 Study on Integrated Sensing and Communication | Agreed | First draft by Monday 23rd 23:00 UTCComments till Wed 25th 23:00UTCFinal version by Thurs 26th 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 22.840Target completion date: SA#98 (12/2022)Percentage completion: 0% | **Details e-mail discussion** : Moderator: Greg Schumacher# e-threads: 13**Block A** |
| **General**  |
| Cont | [S1-221010](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221010.zip) | OPPO | TR skeleton for New SID on Study on Ambient power-enabled Internet of Things | Revised to S1-221254 | **e-Thread: [SA1#98e, FS\_AmbientIoT-Skeleton]**1010r1 approved (no subsections in the Traffic scenarios) |
| Cont | [S1-221254](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221254.zip) | OPPO | TR skeleton for New SID on Study on Ambient power-enabled Internet of Things | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-Skeleton]****Same as 1010r1* Revision of S1-221010. |
| Cont | [S1-221085](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221085.zip) | OPPO | Scope of TR 22.840 on study of ambient power-enabled IoT | Noted | **e-Thread: [SA1#98e, FS\_AmbientIoT-1]**1085r5for approval dayO: DT |
| Cont | [S1-221086](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221086r4.zip) | OPPO | Introduction of TR 22.840 on study of ambient power-enabled IoT | Revised to S1-221255 | **e-Thread: [SA1#98e, FS\_AmbientIoT-1]**1086r4 approved |
| Cont | [S1-221255](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221255.zip) | OPPO | Introduction of TR 22.840 on study of ambient power-enabled IoT | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-1]****Same as 1086r4*Revision of S1-221086. |
| Cont | [S1-221161](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221161.zip) | Alibaba Group | Discussion on adding Co-Rapporteur for Ambient power-enabled IoT | Moved to 4 |  |
| **Use cases** |
| Cont | [S1-221053](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221053r10.zip) | vivo | Ambient\_IoT in personal belongings finding | Noted | **e-Thread: [SA1#98e, FS\_AmbientIoT-2]**1053r9 availableC: Nokia (WF), DT  |
| Cont | [S1-221084](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221084r3.zip) | OPPO | Usecase of Discovery of personal item at smart home | Merged into 1053r9 | **e-Thread: [SA1#98e, FS\_AmbientIoT-3]**1084r3 for approval dayO:Ericsson (WF) |
| Cont | [S1-221090](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221090r8.zip) | Qualcomm  | Ambient IoT devices for Smart Cities | Noted | **e-Thread: [SA1#98e, FS\_AmbientIoT-4]**1090r8for approval day |
| Cont | [S1-221099](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221099r8.zip) | China Mobile  | New use case\_Ambient\_IoT for automated warehousing | Revised to S1-221256 | **e-Thread: [SA1#98e, FS\_AmbientIoT-5]**1099r9 approved ([P.R.5.x.6-001] The 5G system shall be able to support communication with Ambient\_IoT device which is battery-less or with limited energy storage.+Remove second requirement + remove KPI table)  |
| Cont | [S1-221256](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221256.zip) | China Mobile  | New use case\_Ambient\_IoT for automated warehousing | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-5]***Same as 1099r9 Revision of S1-221099. |
| Cont | [S1-221116](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221116r9.zip) | ZTE  | medical instruments inventory management and positioning use case for Ambient-IoT | Revised to S1-221257 | **e-Thread: [SA1#98e, FS\_AmbientIoT-6]**1116r10 approved (remove KPI table + Editorts note KPIs is FFS |
| Cont | [S1-221257](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221257.zip) | ZTE  | medical instruments inventory management and positioning use case for Ambient-IoT | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-6]***Same as 1116r10 Revision of S1-221116. |
| Cont | [S1-221118](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221118r5.zip) | Xiaomi  | New use case: Tracking for Ambient IoT | Noted | **e-Thread: [SA1#98e, FS\_AmbientIoT-7]**1118r5 availableC: Ericsson, DT (discussion?) |
| Cont | [S1-221151](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221151r7.zip) | China Southern Power Grid Co. | pCR on use case of Ambient IoT devices in smart grids | Revised to S1-221258 | **e-Thread: [SA1#98e, FS\_AmbientIoT-8]**1151r8 approved (req #1 is inserted again)  |
| Cont | [S1-221258](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221258.zip) | China Southern Power Grid Co. | pCR on use case of Ambient IoT devices in smart grids | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-8]***Same as 1151r8 Revision of S1-221151. |
| Cont | [S1-221156](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221156r4.zip) | KPN | AmbientIoT Traffic scenario on flower auction | Revised to S1-221259 | **e-Thread: [SA1#98e, FS\_AmbientIoT-9]**1059r5 approved (all values of KPIS are in [] + no number of the sections + table name) |
| Cont | [S1-221259](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221259.zip) | KPN | AmbientIoT Traffic scenario on flower auction | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-9]***Same as 1059r5 Revision of S1-221156. |
| Cont | [S1-221159](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221159r7.zip) | Alibaba  | Use cases for supporting Ambient power-enabled IoT in non-public network | Revised to S1-221260 | **e-Thread: [SA1#98e, FS\_AmbientIoT-10]**1159r8 approved ([PR.x.1.6-001] The 5G system shall support network access for ambient IoT devices while considering the constrained power consumption.Note: The above requirement applies to both NPN and PLMN. Editor’s Note: Requirement is FFS)  |
| Cont | [S1-221260](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221260.zip) | Alibaba  | Use cases for supporting Ambient power-enabled IoT in non-public network | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-10]***Same as 1159r8 Revision of S1-221159. |
| Cont | [S1-221160](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221160r15.zip) | Huawei  | New Use Case\_Intralogistics in automobile manufacturing | Revised to S1-221261 | **e-Thread: [SA1#98e, FS\_AmbientIoT-11]**1160r16 approved (Editor’s note: Additional requirements for this use case are FFS.**+ delete KPIs table)** |
| Cont | [S1-221261](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221261.zip) | Huawei  | New Use Case\_Intralogistics in automobile manufacturing | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-11]***Same as 1160r16 Revision of S1-221160. |
| Cont | [S1-221162](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221162r7.zip) | China Telecom  | New Use Case\_Ambient power-enabled IoT sensors in smart homes | Revised to S1-221262 | **e-Thread: [SA1#98e, FS\_AmbientIoT-12]**1162r8 approved(remove KPIs table)  |
| Cont | [S1-221262](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221262.zip) | China Telecom  | New Use Case\_Ambient power-enabled IoT sensors in smart homes | Approved | ***e-Thread: [SA1#98e, FS\_AmbientIoT-12]****Same as 1162r8* *Revision of S1-221162.* |
| Cont | [S1-221166](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221166r05.zip) | Intel  | FS\_AmbientIoT Use Case: Industrial Wireless Sensor Network (IWSN) | Noted | **e-Thread: [SA1#98e, FS\_AmbientIoT-13]**1164r04 |
| Cont | S1-221049 | Apple | IoT Device Lifecycle Use Case | Withdrawn |  |
| FS\_AmbientIoT output |
| TR | S1-221263 | Rapporteur (OPPO) | TR 22.840v0.1.0 Study on Ambient power-enabled Internet of Things | Agreed | First draft by Monday 23rd 23:00 UTCComments till Wed 25th 23:00UTCFinal version by Thurs 26th 23:00UTC |
| 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 22.856Target completion date: SA#99 (03/2023)Percentage completion: 0% | **Details e-mail discussion** : Moderator: Mona Mustapha# e-threads: 11**Block B** |
| **General**  |
| Cont | [S1-221011](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221011.zip) | Samsung (Rapporteur) | Feasibility Study on Localized Mobile Metaverse Services | Revised to S1-221264 | **e-Thread: [SA1#98e, FS\_Metaverse-skeleton]**1011r2 approved |
| Cont | [S1-221264](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221264.zip) | Samsung (Rapporteur) | Feasibility Study on Localized Mobile Metaverse Services | Approved | ***e-Thread: [SA1#98e, FS\_Metaverse-skeleton]****Same as 1011r2***Revision of S1-221011.** |
| Cont | [S1-221012](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221012.zip) | Samsung (Rapporteur) | pCR 22.856 - Scope | Revised to S1-221265 | **e-Thread: [SA1#98e, FS\_Metaverse-1]**1012r2 approved |
| Cont | [S1-221265](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221265.zip) | Samsung (Rapporteur) | pCR 22.856 - Scope | Approved | ***e-Thread: [SA1#98e, FS\_Metaverse-1]****Same as 1012r2* **Revision of S1-221012.** |
| Cont | [S1-221013](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221013.zip) | Samsung (Rapporteur) | pCR 22.856 – Capturing the relationship between Integrated Sensing and Communication Relationship and Metaverse Services | Noted | **e-Thread: [SA1#98e, FS\_Metaverse-2]** |
| Cont | [S1-221148](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221148.zip) | Samsung  | pCR 22.856 – Informative Annex on Avatar Services | Revised to S1-221266 | **e-Thread: [SA1#98e, FS\_Metaverse-3]**1148r1 approved |
| Cont | [S1-221266](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221266.zip) | Samsung  | pCR 22.856 – Informative Annex on Avatar Services | Approved | ***e-Thread: [SA1#98e, FS\_Metaverse-3]****Same as 1148r1* **Revision of S1-221148.** |
| **Use cases** |
| Cont | [S1-221035](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221035r5.zip) | Charter Communications | PCR on Identification of a User and Object | Noted | **e-Thread: [SA1#98e, FS\_Metaverse-4]**1035r5for approval day |
| Cont | [S1-221081](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221081r2.zip) | China Mobile, Tencent | pCR new use case on supporting multi-application coordination in metaverse | Noted | **e-Thread: [SA1#98e, FS\_Metaverse-5]**1081r3for approval dayO: Qualcomm, DT |
| Cont | [S1-221087](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221087r11.zip) | Tencent,Tencent Cloud, China Telecom, China Mobile, China Unicom | New Use Case for Mobile Metaverse: 5G-enabled Traffic Flow Simulation and Situational Awareness | Revised to S1-221267 | **e-Thread: [SA1#98e, FS\_Metaverse-6]**1087r13 approved (same as r11 + [PR x.1.6-1] The 5G system shall provide low latency, high reliability and high data rate transmission for traffic between a large number of UEs and application server (e.g. mobile metaverse server).Editor Note: This requirement needs to be revisited when concrete KPI values are provided.+ deleting req#2).  |
| Cont | [S1-221267](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221267.zip) | Tencent,Tencent Cloud, China Telecom, China Mobile, China Unicom | New Use Case for Mobile Metaverse: 5G-enabled Traffic Flow Simulation and Situational Awareness | Approved | ***e-Thread: [SA1#98e, FS\_Metaverse-6]***Same as 1087r13 Revision of S1-221087. |
| Cont | [S1-221088](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221088.zip) | Tencent, Tencent Cloud | Mobile Metaverse Based Selective Multi-modal Feedback Service | Noted | **e-Thread: [SA1#98e, FS\_Metaverse-7]** |
| Cont | [S1-221129](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221129.zip) | Orange | pCR 22.856 – New use case – Access to universes | Noted | **e-Thread: [SA1#98e, FS\_Metaverse-8]**1129r3for approval dayO: Qualcomm |
| Cont | [S1-221149](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221149r4.zip) | Samsung | pCR 22.856 – Localized Metaverse Services Use Case | Revised to S1-221268 | **e-Thread: [SA1#98e, FS\_Metaverse-9]**1149r5 approved (delete the editor’s note of req #1) |
| Cont | [S1-221268](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221268.zip) | Samsung | pCR 22.856 – Localized Metaverse Services Use Case | Approved | ***e-Thread: [SA1#98e, FS\_Metaverse-9]****Same as 1149r5* **Revision of S1-221149.** |
| Cont | [S1-221158](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221158r6.zip) | Huawei  | pCR on “Collaborative and concurrent engineering in product design using metaverse services”  | Revised to S1-221269 | **e-Thread: [SA1#98e, FS\_Metaverse-10]**1158r7 approved (normal track changes)  |
| Cont | [S1-221269](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221269.zip) | Huawei  | pCR on “Collaborative and concurrent engineering in product design using metaverse services”  | Approved | ***e-Thread: [SA1#98e, FS\_Metaverse-10]****Same as 1158r7* **Revision of S1-221158.** |
| Cont | [S1-221164](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221164.zip) | Intel | FS\_Metaverse Use Case: Immersive Education/Entertainment | Noted | **e-Thread: [SA1#98e, FS\_Metaverse-11]**1164r03for approval dayO: Qualcomm |
| FS\_Metaverse output |
| TR | [S1-221270](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-214270.zip) | Rapporteur (Samsung) | TR 22.856v0.1.0 Study on Localized Mobile Metaverse Services | Agreed | First draft by Monday 23rd 23:00 UTCComments till Wed 25th 23:00UTCFinal version by Thurs 26th 23:00UTC |
| 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 22.851Target completion date: SA#98 (12/2022)Percentage completion: 0% | **Details e-mail discussion** : Moderator: Greg Schumacher# e-threads: 5**Block B** |
| **General**  |
| Cont | [S1-221092](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221092.zip) | China Unicom | TR22851-skeleton | Approved |  |
| Cont | [S1-221120](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221120r2.zip) | China Unicom | Pseudo-CR on Introduction of TR 22.851 | Revised to S1-221271 | **e-Thread: [SA1#98e, FS\_NetShare-1]****1120r2 approved** |
| Cont | [S1-221271](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221271.zip) | China Unicom | Pseudo-CR on Introduction of TR 22.851 | Approved | ***e-Thread: [SA1#98e, FS\_NetShare-1]****Same as 1120r2* **Revision of S1-221120.** |
| Cont | [S1-221125](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221125r4.zip) | China Unicom | Pseudo-CR on Scope of TR 22.851 | Revised to S1-221292 | **e-Thread: [SA1#98e, FS\_NetShare-1]****1125r4 approved** |
| Cont | [S1-221292](docs%5CS1-221292.zip) | China Unicom | Pseudo-CR on Scope of TR 22.851 | Agreed | ***e-Thread: [SA1#98e, FS\_NetShare-1]****Same as 1125r4***Revision of S1-221125.** |
| **Use cases** |
| Cont | [S1-221097](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221097r7.zip) | ZTE Wistron Telecom AB | Pseudo CR on non-N2 Network Sharing | Revised to S1-221272 | **e-Thread: [SA1#98e, FS\_NetShare-2]**1097r8approved (Editor’s Note: In the requirement**s)** |
| Cont | [S1-221272](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221272.zip) | ZTE Wistron Telecom AB | Pseudo CR on non-N2 Network Sharing | Approved | ***e-Thread: [SA1#98e, FS\_NetShare-2]****Same as 1097r8***Revision of S1-221097.** |
| Cont | [S1-221100](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221100r3.zip) | CATT, China Unicom | Pseudo-CR on use case of security for non-N2 sharing network | Noted | **e-Thread: [SA1#98e, FS\_NetShare-3]**1100R4for approval dayO: Nokia, Qualcomm |
| Cont | [S1-221102](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221102r4.zip) | China Unicom | Pseudo-CR on use case of service for non-N2 sharing network | Noted | **e-Thread: [SA1#98e, FS\_NetShare-4]**1102r4 available |
| Cont | [S1-221103](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221103r2.zip) | vivo, China Unicom | use case of mobility for non-N2 shared network | Noted | **e-Thread: [SA1#98e, FS\_NetShare-5]** |
| FS\_NetShare output |
| TR | S1-221273 | Rapporteur (China Unicom) | TR 22.851v0.1.0 Study on Network Sharing Aspects | Agreed | First draft by Monday 23rd 23:00 UTCComments till Wed 25th 23:00UTCFinal version by Thurs 26th 23:00UTC |
| FS\_FRMCS\_Ph3: Study on FRMCS Phase 3 [[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: Mark Younge# e-threads: 2**Block B** |
| CR | [S1-221058](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221058.zip) | KRRI | 22.989v18.4.0 “Virtual Coupling data communication” use case | Revised to S1-221291 | **e-Thread: [SA1#98e, FS\_FRMCS\_Ph3-1]***WI code F*S\_FRMCS\_Ph3 *Rel-19 CR0013R- Cat B*1058r3 agreed |
| CR | [S1-221291](docs%5CS1-221291.zip) | KRRI | 22.989v18.4.0 “Virtual Coupling data communication” use case | Agreed | ***e-Thread: [SA1#98e, FS\_FRMCS\_Ph3-1]****WI code FS\_FRMCS\_Ph3 Rel-19 CR0013R- Cat B**Same as 1058r3***Revision of S1-221058.** |
| CR | [S1-221131](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221131.zip) | UIC | 22.989v18.4.0 Real-time automatic translation of languages-related use cases | Revised to S1-221293 | **e-Thread: [SA1#98e, FS\_FRMCS\_Ph3-2]***WI code FS\_FRMCS\_Ph3Rel-19 CR0014R- Cat B*1131r1 pre-agreed |
| CR | [S1-221293](docs%5CS1-221293.zip) | UIC | 22.989v18.4.0 Real-time automatic translation of languages-related use cases | Agreed | ***e-Thread: [SA1#98e, FS\_FRMCS\_Ph3-2]****WI code FS\_FRMCS\_Ph3Rel-19 CR0014R- Cat B**Same as 1131r1***Revision of S1-221131.** |
|  | S1-221055 | KRRI | “Virtual Coupling data communication” use case | Withdrawn |  |
| 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: [TR22.874v18.2.0](https://www.3gpp.org/ftp/Specs/archive/22_series/22.874/22874-i20.zip)Target completion date: SA#98 (12/2022)Percentage completion: 0% | **Details e-mail discussion** : Moderator: Erik Guttman# e-threads: 2**Block B** |
| Cont | [S1-221218](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221218.zip) | OPPO | 22.874v18.2.0 TR index | Approved | **e-Thread: [SA1#98e, FS\_AIML\_Ph2-skeleton]**Orig.for approval day |
| CR | [S1-221066](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221066r7.zip) | CTSI | 22.874v18.2.0 Use Case of AI model transfer management through direct device connection | Noted | **e-Thread: [SA1#98e, FS\_AIML\_Ph2-1]***WI code* FS\_AIML\_Ph2 *Rel-19 CR0008R- Cat B**1066r7 available*  |
| Cont | [S1-221274](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221274.zip) | CTSI | Use Case of AI model transfer management through direct device connection | Noted |  |
| CR | [S1-221070](file:///C%3A%5CUsers%5Calmodovarchicojl%5CDesktop%5CTSGS1_98e_EM_May2022%5Cdocs%5CS1-221070r6.zip) | OPPO | 22.874v18.2.0 Use Case of direct device connection assisted Federated Learning | Noted | **e-Thread: [SA1#98e, FS\_AIML\_Ph2-2]***WI code* FS\_AIML\_Ph2 *Rel-19 CR0009R- Cat B**1070r6 available* |
| Cont | [S1-221275](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-221275.zip) | OPPO | Use Case of direct device connection assisted Federated Learning | Noted |  |
| FS\_AIML\_Ph2 output |
| TR | [S1-221276](https://etsihq-my.sharepoint.com/personal/alain_sultan_etsi_org/Documents/Documents/3GPP/SA1/2022/SA1_98e_May/docs/S1-214276.zip) | Rapporteur (OPPO) | TR 22.874v0.1.0 Study on AI/ML Model Transfer\_Phase2 | Agreed | First draft by Monday 23rd 23:00 UTCComments till Wed 25th 23:00UTCFinal version by Thurs 26th 23:00UTC |
| Other technical contributions |
| Other non-technical contributions |
| Work Item/Study Item progress  |
| Session information outputs |
| Work Item/Study Item status update |
| REP | S1-221277 | Hansung University | FS\_RAILSS – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221278 | Deutsche Telekom | FS\_Sensing – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221279 | OPPO | FS\_AmbientIoT – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221280 | Samsung | FS\_Metaverse – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221281 | China Unicom | FS\_NetShare – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221282 | UIC | FS\_FRMCS\_Ph3– Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221283 | OPPO | FS\_AIML\_Ph2– Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221284 | Ericsson | FS\_RVAS – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221285 | Novamint | FS\_ 5GSAT\_Ph3– Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221286 | China Mobile | FS\_UAV\_Ph3– Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221287 | Qualcomm | FS\_DualSteer – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221288 | China Mobile | FS\_EnergieServ – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| REP | S1-221289 | LGE | FS\_SOBOT – Status report | Noted | Expected by by Monday 23rd 23:00 UTC |
| Next meetings |
| Calendar |
| **2022 meetings:**SA1#99 22 Aug - 1 Sep 2022 e-meetingSA1#100 14-18 Nov 2022 North America (location T.B.D.)  |
| Any other business |
| Close |
| Close latest by 15:30 UTC on Thursday 19 May 2022**Do not forget to check in before the end of the meeting!** |