**3GPP TSG-SA WG1 Meeting #96e S1-213004**

**Electronic Meeting, 23 August – 2 September 2021**

**Draft Minutes of**

**3GPP TSG SA WG1   
Meeting #95e**

Electronic Meeting

23 August – 2 September 2021

Chairman: Jose Almodovar, TNO

Meeting Secretary: Alain Sultan, ETSI/MCC

Contents

Contents

[1 Opening of the meeting 5](#_Toc82005269)

[1.1 Guidelines e-meeting 5](#_Toc82005270)

[1.2 Agenda and scheduling 5](#_Toc82005271)

[1.3 IPR, antitrust and competition laws 5](#_Toc82005272)

[1.4 Previous SA1 meeting report 5](#_Toc82005273)

[1.5 Information for delegates 6](#_Toc82005274)

[1.6 Information for rapporteurs 6](#_Toc82005275)

[1.7 Working agreements 6](#_Toc82005276)

[2 Reports and action items 6](#_Toc82005277)

[3 Liaison Statements (including related contributions) 6](#_Toc82005278)

[3.1 LS on Steering of Roaming regarding handling of SOR-CMCI 6](#_Toc82005279)

[3.2 LSs on Support of PWS over SNPN 7](#_Toc82005280)

[3.3 LSs on Emergency services in an SNPN deployed in an area which does not belong to any country 8](#_Toc82005281)

[3.4 LSs on Broadcast of NTN GW or gNB position 9](#_Toc82005282)

[3.5 LSs on MSGin5G store-and-forward clarifications 9](#_Toc82005283)

[3.6 LSs on 3GPP SA1 clarifications on problematic UAV 10](#_Toc82005284)

[3.7 LSs on UAS terminology alignment 11](#_Toc82005285)

[3.8 LSs on BBF and 3GPP collaboration on the 5G WWC project 11](#_Toc82005286)

[3.9 LSs on Application Enablement for Data Integrity Verification Service in IOT 12](#_Toc82005287)

[3.10 LSs on Indication of country of UE location and its use in PLMN selection 12](#_Toc82005288)

[3.11 Other LSs 13](#_Toc82005289)

[4 New Study and Work Items (including related contributions) 13](#_Toc82005290)

[4.1 Rel-18 WIDs 13](#_Toc82005291)

[4.2 WIDs on Service exposure interfaces for industry 14](#_Toc82005292)

[4.3 WIDs on MPS when access to EPC/5GC is WLAN 14](#_Toc82005293)

[4.4 WIDs on Supporting Ad Hoc Group Communication in Mission Critical Services 15](#_Toc82005294)

[4.5 WIDs on ProSe Extreme Range 15](#_Toc82005295)

[4.6 WIDs on IIoT time synchronization requirements 16](#_Toc82005296)

[4.7 WIDs on Clarifying NPN in 22.261 16](#_Toc82005297)

[4.7 WIDs on Rel-19 SIDs 17](#_Toc82005298)

[5 Quality improvement contributions 18](#_Toc82005299)

[6 Rel-17 and earlier contributions 20](#_Toc82005300)

[6.1 Rel-17 correction and clarification CRs 20](#_Toc82005301)

[6.2 Release 16 Alignment CRs (aligning Stage 1 specifications with what has been implemented in Stage 2 and 3) 20](#_Toc82005302)

[6.3 Rel-16 and earlier CRs (other than alignment) 20](#_Toc82005303)

[7 Rel18 contributions 20](#_Toc82005304)

[7.1 MMTELin5G 20](#_Toc82005305)

[7.1.1 FS\_MMTELin5G: Study on evolution of IMS multimedia telephony service [SP-190836] 20](#_Toc82005306)

[7.1.2 MMTELin5G: Evolution of IMS Multimedia Telephony Service [SP-210519] 20](#_Toc82005307)

[7.2 SACI\_MCS 20](#_Toc82005308)

[7.2.1 FS\_ SACI\_MCS: Study on sharing administrative configuration between interconnected MCX Service systems [SP-190837] 20](#_Toc82005309)

[7.2.2 SACI\_MCS: Sharing administrative configuration between interconnected MCX Service systems [S1-212023] 20](#_Toc82005310)

[7.3 RAILSS 21](#_Toc82005311)

[7.3.1 FS\_RAILSS: Study on Supporting of Railway Smart Station Services [SP-190838] 21](#_Toc82005312)

[7.4 AMMT 21](#_Toc82005313)

[7.4.1 FS\_AMMT: Study on AI/ML Model Transfer in 5GS [SP-191040] 21](#_Toc82005314)

[7.4.2 AMMT: AI/ML model transfer in 5GS [SP-210587] 21](#_Toc82005315)

[7.5 5GET 22](#_Toc82005316)

[7.5.1 FS\_ 5GET: Study on Services with Extra-territorial 5G systems [SP-191042] 22](#_Toc82005317)

[7.6 OffNetRail 23](#_Toc82005318)

[7.6.1 FS\_OffNetRail: Study on Off-Network for Rail [SP-200572] 23](#_Toc82005319)

[7.7 SEI 23](#_Toc82005320)

[7.7.1 FS\_5GSEI: Study on 5G Smart Energy and Infrastructure [SP-200574] 23](#_Toc82005321)

[7.7.2 SEI: Smart Energy and Infrastructure [SP-210523] 23](#_Toc82005322)

[7.8 PIRates 25](#_Toc82005323)

[7.8.1 FS\_Resident: Study on Enhancements for Residential 5G [SP-200576] 25](#_Toc82005324)

[7.8.2 FS\_PIN: Study on Personal IoT Networks [SP-200592] 25](#_Toc82005325)

[7.8.3 PIRates: Personal IoT and Residential networks Service Requirements [S1-212148] 26](#_Toc82005326)

[7.9 PALS 27](#_Toc82005327)

[7.9.1 FS\_PALS: Study on 5G Networks Providing Access to Localized Services [SP-200799] 27](#_Toc82005328)

[7.9.2 PALS: 5G Networks Providing Access to Localized Services [SP-210588] 28](#_Toc82005329)

[7.10 VMR 28](#_Toc82005330)

[7.10.1 FS\_VMR: Study on vehicle-mounted relays [SP-200798] 28](#_Toc82005331)

[7.10.2 VMR: vehicle-mounted relays [WID not yet approved] 28](#_Toc82005332)

[7.10.3 FS\_VMR ouput 29](#_Toc82005333)

[7.11 eFRMCS 29](#_Toc82005334)

[7.11.1 FS\_eFRMCS: Study on FRMCS Evolution [SP-201038] 29](#_Toc82005335)

[7.12 TACMM 29](#_Toc82005336)

[7.12.1 FS\_TACMM: Study on supporting tactile and multi-modality communication services [SP-201039] 29](#_Toc82005337)

[7.12.2 FS\_TACMM output 31](#_Toc82005338)

[7.13 SENSE 31](#_Toc82005339)

[7.13.1 SENSE: Signal level Enhanced Network Selection [SP-210525] 31](#_Toc82005340)

[7.14 SCVS 32](#_Toc82005341)

[7.14.1 SCVS: satellite access to Support Control and/or Video Surveillance [SP-210527] 32](#_Toc82005342)

[7.15 Other Rel18 contributions 32](#_Toc82005343)

[8 Other technical contribution 32](#_Toc82005344)

[9 Other non-technical contributions 33](#_Toc82005345)

[10 Work Item/Study Item progress 33](#_Toc82005346)

[10.1 Session information outputs 33](#_Toc82005347)

[10.2 Work Item/Study Item status update 33](#_Toc82005348)

[11 Next meetings 34](#_Toc82005349)

[11.1 Calendar 34](#_Toc82005350)

[12 Any other business 35](#_Toc82005351)

[13 Close 35](#_Toc82005352)

[Annexes 36](#_Toc82005353)

[Annex A: List of contribution documents 36](#_Toc82005354)

[Annex B: List of agreed change requests (sorted by TS then CR#) 49](#_Toc82005355)

[Annex C: Lists of liaisons 52](#_Toc82005356)

[Annex D: List of agreed/approved new and revised Work Items 52](#_Toc82005357)

[Annex E: Registered Participants list 52](#_Toc82005358)

For the **hyperlinks** to work:

1) unzip this tdoc list on your PC and place the .doc file in the folder you wish (let's call it ...\meeting\_x)

2) place all the zipped tdocs in the subfolder ...\meeting\_x\tdocs

3) you might have to refresh the fields. To do this, select all (CTL+A) and press F9.

Sort by "order" (specifying a sort by "text" and not "number") to list the tdocs by agenda items.

# 1 Opening of the meeting

The meeting #95bis of 3GPP SA1 took place from the 23rd August till the 2nd September 2021. It was an electronic meeting using conference calls and e-mail exchanges on the 3GPP SA1\_eMeet reflector.

The SA1 chair, Mr. Jose Almodóvar (KPN), announced the opening on Sunday 22nd of August at 11PM UTC. He then "verbally welcomed" all the delegates at the occasion of the beginning of the first conference call, on Tuesday 24th August 2021 at 2.30 PM UTC.

He explained that this meeting was dedicated on progressing several Rel-18 SA1 Studies, as to reach the current target of 80% completion by next SA plenary.

## 1.1 Guidelines e-meeting

[S1-213006](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213006.zip) from SA1 Chair, MCC: ***Guidelines for SA1#95e (e-meeting)*** ( other)

***Conclusion:*** Noted

## 1.2 Agenda and scheduling

[S1-213000](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213000.zip) from SA WG1 Chair: ***Draft agenda for SA1#95e*** (agenda)

***Conclusion:*** Revised to S1-213001

[S1-213001](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213001.zip) from SA WG1 Chair: ***2nd Draft agenda for SA1#95e*** (agenda)

***Discussion:*** Revision of S1-213000.

***Conclusion:*** Agreed

[S1-213002](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213002.zip) from SA WG1 Chair: ***Agenda for SA1#95e with tdoc allocation*** (agenda)

***Conclusion:*** Agreed

## 1.3 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 Chairman and Vice Chairman. 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.

## 1.4 Previous SA1 meeting report

[S1-213003](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213003.zip) from ETSI MCC: ***Draft minutes of SA1#94bis-e*** (report)

***Conclusion:*** Revised to S1-213004

[S1-213004](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213004.zip) from ETSI MCC: ***Minutes of SA1#94bis-e*** (report)

***Discussion:*** Revision of S1-213003.

***Conclusion:*** Approved.

## 1.5 Information for delegates

[S1-213008](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213008.zip) from ETSI MCC: ***MCC info on CR Rules*** (other)

***Conclusion:*** Revised to S1-213212

[S1-213212](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213212.zip) from ETSI MCC: ***Process to clean-up requirements*** (Other)

***Discussion:*** Revision of S1-213008.

***Conclusion:*** Noted

Other information:

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 as 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>

All documents for this meeting are stored in:

<https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/docs>

## 1.6 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>

For detailed drafting guidelines, please see TR 21.801

Rapporteurs are expected to produce a work item/study item status report for the end of the meeting under 10.2.

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.

## 1.7 Working agreements

There was no contribution for this agenda item.

# 2 Reports and action items

[S1-213007](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213007.zip) from SA1 chairman: ***SA1-related topics at SA#92e*** (other)

***Conclusion:*** Noted

[S1-213005](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213005.zip) from ETSI MCC: ***Work Plan presentation for SA1#95e*** (Work Plan)

***Conclusion:*** Noted

# 3 Liaison Statements (including related contributions)

## 3.1 LS on Steering of Roaming regarding handling of SOR-CMCI

[S1-213181](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213181.zip) from GSMA 5GJA#17 Doc 111r2: ***LS from 5GJA to 3GPP SA1 on Steering of Roaming regarding handling of SOR-CMCI*** (LS in)

***Summary:*** GSMA 5GJA asks SA1 to modify a requirement. GSMA 5GJA would like to note that this request is independent from the handling of "User Controlled PLMN Selector list".

***Discussion:*** Proposed answer in 3068 (companion contributions in 3065, 3066 and 3067).

***Conclusion:*** Noted

[S1-213068](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213068.zip) from NTT DOCOMO for 3GPP SA1: ***LS to GSMA 5GJA, 3GPP CT1 on [DRAFT] Reply LS on Steering of Roaming regarding handling of SOR-CMCI*** (LS out)

***Summary:*** SA1 thanks GSMA 5GJA for the LS requesting modification of the requirement about Steering of Roaming, in particular, about handling of SOR-CMCI.

***Discussion:*** Rev1: agreed as rev2 (clean-up needed).

CR needs to be attached.

***Conclusion:*** Revised to S1-213250

[S1-213250](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213250.zip) from 3GPP SA1: ***LS to GSMA 5GJA, 3GPP CT1 on Reply LS on Steering of Roaming regarding handling of SOR-CMCI*** (LS out)

***Discussion:*** Revision of S1-213068. Same as 3068r2

***Conclusion:*** Agreed

[S1-213065](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213065.zip) from NTT DOCOMO: ***Discussion related to the received LS (5GJA#17 Doc 111r2)*** ( discussion)

***Summary:*** As per GSMA's request, it is proposed to remover "or the user" from the requirement "The UE shall be able to delay conforming to steering of roaming control information from the HPLMN while it is engaged in priority service (e.g. emergency call, MPS session), or a service defined by HPLMN policy or the user not to be interrupted (e.g. MMTEL voice/video call)."

***Discussion:*** Actual CR in 3066, mirror in 3067.

Qualcomm supports the option that the user can interrupt the session, so they are against this proposed change. They do not object to GSMA's request though.

Several companies (including DT, KPN, Nokia, Telefonica) support DoCoMo's approach.

Talks encouraged off-line to check if there is another solution for GSMA's request (other ideas mentioned in 3065).

***Conclusion:*** Noted

[S1-213066](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213066.zip) from NTT DOCOMO: ***Removal of user intervention on services exempted from release due to SOR*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #558 cat F v.17.7., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [eCPSOR\_CON](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850039))

***Summary:*** The CR removes user intervention on services exempted from release due to SOR

***Discussion:*** Apple proposes what can be a better wording for the note: " The HPLMN policy can take into account the user's preference for the service(s) not to be interrupted. User preferences can be communicated utilizing non-standard operator-specific mechanisms, e.g. web-based".

This is acceptable and will be included in rev3.

***Conclusion:*** Revised to S1-213251

[S1-213251](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213251.zip) from NTT DOCOMO: ***Removal of user intervention on services exempted from release due to SOR*** (CR to 22.261 #558r1 cat F v.17.7., Rel-17, WID: eCPSOR\_CON)

***Discussion:*** Revision of S1-213066. Same as 3066r3

***Conclusion:*** Agreed

[S1-213067](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213067.zip) from NTT DOCOMO: ***Removal of user intervention on services exempted from release due to SOR*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #559 cat A v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [eCPSOR\_CON](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850039))

***Discussion:*** Rev2: Same comment as 3066r2.

***Conclusion:*** Revised to S1-213252

[S1-213252](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213252.zip) from NTT DOCOMO: ***Removal of user intervention on services exempted from release due to SOR*** (CR to 22.261 #559r1 cat A v.18.3., Rel-18, WID: eCPSOR\_CON)

***Discussion:*** Revision of S1-213067. Same as 3067r3

***Conclusion:*** Agreed

## 3.2 LSs on Support of PWS over SNPN

[S1-213199](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213199.zip) from SP-210584: ***LS to SA1, SA3, CT1, RAN2, RAN3 (cc SA2, CT, RAN) on Reply on support of PWS over NPN*** (LS in)

***Summary:*** This follows the approval of a WID to support PWS on NPN, where SA ask several groups about the potential impact on their work.

***Conclusion:*** Noted

[S1-213191](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213191.zip) from R3-212863: ***Reply LS on support of PWS over SNPN in R17*** (LS in)

***Summary:*** RAN3's answer to SP-210584

***Conclusion:*** Noted

[S1-213184](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213184.zip) from C1-213640: ***Reply LS on support of PWS over SNPN*** (LS in)

***Summary:*** CT1's answer to SP-210584.

CT1 asks 2 questions to SA1. Q1: Can an SNPN support emergency services but not support PWS, in a country where PWS is deployed?

Q2: Is there a need for the UE to prioritize SNPNs supporting PWS over SNPNs not supporting PWS for SNPN selection in 2 specific contexts.

***Conclusion:*** Noted

[S1-213120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213120.zip) from Huawei Technologies Sweden AB for SA1: ***LS to CT1 (cc SA2, SA3, RAN2, RAN3, SA, CT, RAN) on Reply LS on support of PWS over SNPN*** (LS out)

***Summary:*** Huawei's proposed answers:

A1: Yes; it is possible that, subject to regional or national regulatory requirements, an SNPN may support emergency services but not support PWS in a country where PWS is deployed.

A2: No; there is no need for a UE to prioritise SNPNs supporting PWS over SNPNs not supporting PWS for SNPN selection in either scenario shown in Question 2.

***Conclusion:*** Agreed

[S1-213081](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213081.zip) from Qualcomm [SA1]: ***[DRAFT] LS reply on PWS over SNPN*** (LS out)

***Summary:*** Qualcomm's answers are Yes for Q1 but also Yes for Q2, clarifying that it would be beneficial.

***Discussion:*** Siemens agree with Huawei that there is no need for prioritisation. Vivoagrees with Huawei that an LS is not enough for standardisation (at least a CR should have been provided together with 3081). For Qualcomm, this is to come later if this is the way forward.

Supporting "no" as A2:Huawei, KPN, Siemens, vivo, Futurwei, DT, Philips, Ericisson, China Mobile, China Unicom

Supporting "yes" for A2: Nokia, Qualcomm.

For KPN, this kind of prioritization is a "nice to have", but it will require more study on what the exact service requirement is. They are not sure this "nice to have" is worth the effort.

Qualcomm agrees to follow the majority.

***Conclusion:*** Noted

## 3.3 LSs on Emergency services in an SNPN deployed in an area which does not belong to any country

[S1-213185](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213185.zip) from C1-213960: ***LS on emergency services in an SNPN deployed in an area which does not belong to any country*** (LS in)

***Summary:*** CT1 is asking several questions on emergency services in an SNPN deployed in an area which does not belong to any country, more precisely about the following requirement: " The serving network may download emergency call numbers to the UE in order to ensure that local emergency call numbers are known to the UE. The UE shall regard these emergency numbers as valid in that country only (as identified by the MCC) and shall discard them when a new country is entered.".

Q1: When the serving network is an SNPN, whether or not the above stage-1 requirement is applicable?

Q2: Are emergency services supported in an SNPN deployed in an area which does not belong to any country (e.g. international waters)?

Q3: If the answer to Question 2 is Yes, can an SNPN deployed in an area which does not belong to any country (e.g. international waters) provide emergency numbers to the UE?

Q4: If the answers to Q2 and Q3 are Yes, is it correct that those emergency numbers provided by the SNPN deployed in an area which does not belong to any country (e.g. international waters) are valid only in the SNPN from which they were received?

Q5: If the answer to Question 2 is No, how should the UE handle the case when the user dials an emergency number stored in the ME or the USIM (e.g. 112 or 911)? Should a normal call be initiated?

***Discussion:*** Several answers provided: 3010, 3082 (+3083) and 3089.

***Conclusion:*** Noted

[S1-213010](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213010.zip) from TNO for SA1: ***LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN deployed in an area which*** (LS out)

***Summary:*** Proposed answers:

A1: Yes.

A2: Emergency services may be supported. Even in international waters, there may be a country that has jurisdiction for the SNPN or the vessel the SNPN is deployed on. In that case, regulations apply from that country, e.g. whether emergency calls need to be supported on SNPNs, and/or whether emergency calls should be supported in international waters. If there is no country that can claim jurisdiction over the SNPN, there will also be no country that can handle the emergency services response and therefore emergency services cannot be supported.

A3: The SNPN may provide a list of emergency numbers in accordance with a country that has jurisdiction over the SNPN even when the SNPN is deployed in international waters. If there is no country that has jurisdiction, or if the regulations for the country that has jurisdiction stipulate that no emergency services are supported, then the SNPN should not download emergency numbers to the UE.

A4: A UE may be able to determine a country for the SNPN based on the MCC in the PLMN ID. In that case the requirement in TS 22.101 subclause 10.1 applies. If the UE cannot determine a country (e.g. MCC=999 is used), then the UE shall disregard emergency numbers it may have received from another network that uses MCC=999.

A5: If emergency services are not supported in an SNPN (note this can also happen when the SNPN is not in international waters but local regulations do not require emergency support for the SNPN), then the UE should not initiate a normal call to the SNPN. An SNPN that does not provide emergency support will have no way to route an emergency call to a PSAP.

***Conclusion:*** Merge in 3089r1

[S1-213082](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213082.zip) from Qualcomm for SA1: ***LS to CT1 (cc SA2) on Reply LS on SNPN emergency services in areas not belonging to any*** (LS out)

***Summary:*** Proposed answers:

A1: Yes. See corresponding clarification CR in S1-213083, [attached to this LS].

A2&3: Yes, emergency services can be supported in an SNPN deployed in an area which does not belong to any country (e.g. international waters), and such SNPN can provide emergency numbers to the UE.

A4: Yes, emergency numbers provided by an SNPN deployed in an area not belonging to any country (e.g. international waters) should be valid only in the SNPN from which they were received.

A5: Not applicable.

***Discussion:*** See companion CR in 3083.

Merged in 3089r1.

***Conclusion:*** Merge in 3089r1

[S1-213083](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213083.zip) from Qualcomm: ***Clarify requirements for IMS emergency services over Non-public networks*** (CR to [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) #573 cat F v.17.3., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: IESNPN, eNPN)

***Summary:*** The CR clarifies requirements on IMS emergency services, and applicability to SNPNs.

***Discussion:*** A merging with the China Telecom CR is possible.

KPN prefers the Qulcomm's text for the IMS section and the China Telecom for the rest.

China Telecom's proposal is to be used as a basis, and Qualcomm's improvements will be included.

Merged in 3090r1 and 3091r1.

***Conclusion:*** Merge in 3090r1

[S1-213089](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213089.zip) from China Telecom for SA1: ***LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN deployed in an area which*** (LS out)

***Summary:*** Proposed answers:

A1: No, the stage-1 requirement needs to be updated for SNPN cases. Subject to regulatory requirements emergency services may be supported in an SNPN, where some emergency numbers may be SNPN specific. When the serving network is an SNPN, the UE shall regard these emergency numbers as valid in that SNPN only (as identified by the SNPN identity) and shall discard them when the UE leaves the SNPN.

A2: Yes. Subject to regulatory requirements emergency services may be supported in an SNPN deployed in an area which does not belong to any country.

A3: Yes. Subject to regulatory requirements the SNPN may provide a list of emergency numbers, some of which may be SNPN specific.

A4: Yes. The emergency numbers provided by the SNPN may be SNPN specific and only valid in this SNPN.

A5: In the case that emergency services are not supported in an SNPN, the UE should not initiate a normal call (by dialling an emergency number stored in the ME or the USIM) to the SNPN.

***Discussion:*** See companions CRs in 3090 and 3091.

It should be clearer if the CRs are related to some questions or to all.

Rev5:attachment should be sown with CR numbers since the tdoc numbers will change.

Nokia has concerns with answer 5, which changed compared to the previous version they knew. More time needed.

CRs to be attached in the latest version.

Qualcomm has issues about the sentence " Emergency support is considered for UEs (belonging to crew members or passengers) that are connected to the NPN, not for a ‘UE dedicated to a vessel’, as specified in 3GPP TS22.119 “Maritime communication services over 3GPP system”.", which they see as unclear. But no other company shares this view, so they accept to ignore their concern.

Rev6 agreed

***Conclusion:*** Revised to S1-213253

[S1-213253](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213253.zip) from SA1: ***LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN deployed in an area which*** (LS out)

***Discussion:*** Revision of S1-213089. Same as 3089r6

***Conclusion:*** Agreed

[S1-213090](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213090.zip) from China Telecom, Huawei, ZTE Corporation, CATT: ***Handling of emergency numbers in non-public networks*** (CR to [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) #574 cat F v.17.3., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** R5: rev mark on the cover, no other comment

Agreed as rev6

***Conclusion:*** Revised to S1-213254

[S1-213254](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213254.zip) from China Telecom, Huawei, HiSilicon, ZTE Corporation, CATT, Deutsche Telekom: ***Handling of emergency numbers in non-public networks*** (CR to 22.101 #574r1 cat F v.17.3., Rel-17, WID: TEI17)

***Discussion:*** Revision of S1-213090. Same as 3254r6

***Conclusion:*** Agreed

[S1-213091](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213091.zip) from China Telecom, Huawei, ZTE Corporation, CATT: ***Handling of emergency numbers in non-public networks*** (CR to [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) #575 cat A v.18.1.1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** Same comment

***Conclusion:*** Revised to S1-213255

[S1-213255](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213255.zip) from China Telecom, Huawei, HiSilicon, ZTE Corporation, CATT, Deutsche Telekom: ***Handling of emergency numbers in non-public networks*** (CR to 22.101 #575r1 cat A v.18.1.1, Rel-18, WID: TEI17)

***Discussion:*** Revision of S1-213091. Same as 3091r6

***Conclusion:*** Agreed

## 3.4 LSs on Broadcast of NTN GW or gNB position

[S1-213189](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213189.zip) from R1-2106332: ***LS on broadcast of NTN GW or gNB position*** (LS in)

***Summary:*** RAN1 asks to SA1 and SA3:

Q1: Is there any security/regulatory aspect that needs to be taken into account if the NTN-GW/gNB position is broadcasted including any aspects related to accuracy of the position?

Q2: Is there any security/regulatory aspect that needs to be taken into account if the NTN-GW/gNB position is possible to be derived by the UE with assistance information from the network including any aspects related to accuracy of the position?

***Conclusion:*** Noted

[S1-213174](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213174.zip) from Huawei for SA1: ***LS to RAN1, SA3 (cc SA3-LI) on Reply LS on broadcast of NTN GW or gNB position*** (LS out)

***Summary:*** Proposed answers:

A1: SA1 have not reviewed laws and regulations in all regions but a general principal which can be seen across regions is that telecommunication network elements, including gNBs, are considered as Critical Information Infrastructure (CII)

A2: as per A1, it would not be advisable to broadcast the location of the NTN-GW/gNB unless a suitable location obfuscation mechanism was used to protect the exact location.

***Discussion:*** For Ericsson, some parts of the proposed answers are too SA3-centric.

Main comments are about sending the exact location of the gNodeB, which can be seens as a security issue.

For KPN, These NTN-GW/gNBs are more gateways, rather than base stations. Which operator would be willing to disclose the location of core network entities?

For Samsung and Huawei, it is already possible to exactly locate base stations – there are even app to do this.

Rev1: it is proposed to have SA3 to answer to some aspects. There is support for this approach, with some rewording needed.

Rev2: Verizon has still concerned about implications on the network, and exposing the exact locations of gNB in particular. This is intended to be covered by this version of the LS. In the end, just minor typos to be corrected.

Rev3: agreed as 3211.

***Conclusion:*** Revised to S1-213211

[S1-213211](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213174.zip) from SA1: ***LS to RAN1, SA3 (cc SA3-LI) on Reply LS on broadcast of NTN GW or gNB position*** (LS out)

***Discussion:*** Same as 3174r3 Revision of S1-213174.

***Conclusion:*** Agreed

## 3.5 LSs on MSGin5G store-and-forward clarifications

[S1-213197](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213197.zip) from S6-211831: ***LS on MSGin5G store-and-forward clarifications*** (LS in)

***Summary:*** SA6 asks SA1 further clarifications on the requirement "[R-5.1.2-005] The MSGin5G Service shall support storage of a message if a UE is unavailable (disconnected or power off) for future delivery once the UE becomes available.". Two questions are asked:

Q1: Can the sender provide per-message information that can be leveraged for store-and-forwarding? If yes, what information should the sender provide to control the message handling (e.g. an indication of whether the message can be buffered, how long the message is valid, or a priority of the message)?

Q2: Can the receiver pre-configure information (e.g. preference to opt in/out) about store-and-forward?

***Conclusion:*** Noted

[S1-213056](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213056.zip) from Convida Wireless for SA1: ***LS to SA6 response on MSGin5G store-and-forward clarifications*** (LS out)

***Summary:*** Proposed answers:

A1: Yes, the sender may provide per-message information, such as indication of whether the message can be buffered, how long the message is valid, or a priority of the message.

A2: A preference to opt in/out the store and forward feature may be provided. It is an architectural decision whether or not the receiver can pre-configure other information about store-and-forward.

Regarding upcoming SA1 work related to store-and-forward feature: there is no current work.

***Discussion:*** For Siemens, the last sentence ("SA1 considers that the task of determining more detailed architectural requirements related to this feature is in scope of SA6.") is out of scope of SA1 and should be deleted.

The part of sentence " approved SA1 Work Item that have in scope additional" can be deleted.

3056r4=3208

***Conclusion:*** Revised to S1-213208

[S1-213208](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213208.zip) from SA1: ***LS response to SA6 on MSGin5G store-and-forward clarifications*** (LS out)

***Discussion:*** Same as R5 Revision of S1-213056.

***Conclusion:*** Agreed

[S1-213176](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213176.zip) from convidawireless: ***22.262v16.. CR on MSGin5G store-and-forward modifications*** (CR to 22.262 #1 cat v.16.., Rel-17, WID: )

***Summary:*** Linked to S1-213056.

The CR adds a service requirement for MSGin5G Service to specify the sender may provide per-message information.

***Discussion:*** For Nokia and CMCC, this requirement comes too early. Several aspects have not been defined, like the priorities. Or the information only contains the proposed three kinds or still needs other kinds?

What can the information be used to do?

Some problems can be solved by deleting the example, but then Nokia wonders if the requirement is clear enough.

Written inputs are asked to objecting companies by the author. Or a dedicated call can be organised.

No consensus at this stage.

Rev2: agreed, minor changes to be done

3176r3=3209

***Conclusion:*** Revised to S1-213209

[S1-213209](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213209.zip) from Convida Wireless: ***MSGin5G store-and-forward modifications*** (CR to 22.262 #1r1 cat F v.16.., Rel-17, WID: MSGin5G)

***Discussion:*** Same as R3 agreed Revision of S1-213176.

***Conclusion:*** Agreed

[S1-213055](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213055.zip) from Convida Wireless LLC: ***MSGin5G store and forward discussion*** (discussion)

***Conclusion:*** Noted

## 3.6 LSs on 3GPP SA1 clarifications on problematic UAV

[S1-213179](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213179.zip) from S1-211273/ GSMA ACJA LS\_UAV: ***3GPP SA1 clarifications on problematic UAV*** (LS in)

***Summary:*** Postponed from previous meeting.

GSMA and GUTMA, as part of the joint activity ACJA, kindly asks 3GPP SA1 and SA6 to take

this information into account, describing the requirement more in detail considering the actual

UTM functionality, or eliminating it completely.

***Discussion:*** Proposed answer in 3119 and 3084. See also 3193.

***Conclusion:*** Postponed

[S1-213193](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213193.zip) from S2-214916: ***Reply LS to GSMA-ACJA: 3GPP SA1 clarifications on problematic UAV*** (LS in)

***Summary:*** Filename "S2-2104916.zip".

SA2 finds the three scenarios listed in the LS to be realistic and exhaustive. Based on the UAS architecture and solutions designed by SA2, SA2 agrees that it is not reasonable to ask a 3GPP system to detect which UEs are actually autonomously flying unauthorized UAVs versus regular UEs that may be in motion but not flying autonomously.

SA2 recommends to SA1 to either redefine the requirement more in detail, with a clarification of which use cases should be considered, in light of the issues highlighted by both SA2 and GSMA-ACJA, or to remove the requirement altogether.

***Conclusion:*** Postponed

[S1-213214](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213214.zip) from Huawei: ***Discussion paper for the UAV LS*** (Discussion)

***Summary:*** This presentation tries to summarise the overall situation for clarifications on problematic UAV, including S1-213179 and following, and ask a question about which proposal to follow.

***Discussion:*** Qualcomm thank Huawei for the nice presentation, but are not ready at this stage to decide between proposal 1 and proposal 2.

Kept open at this stage.

8 companies prefer Proposal 1

3 companies prefer Proposal 2 (Qc, Xiaomi, Intel)

***Conclusion:*** Noted

[S1-213119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213119.zip) from Huawei Technologies Sweden AB for SA1: ***LS to GSMA-ACJA, SA2, SA6 (cc SA3) on Reply LS on 3GPP SA1 clarifications on problematic UAV*** (LS out)

***Summary:*** Proposed answer (extract): Regarding the 3 scenarios proposed by ACJA; SA1 was considering all 3 scenarios. It should be recognised that SA1 only determines the service requirements for 3GPP and therefore technical solutions are beyond its remit.

***Conclusion:*** Noted

[S1-213177](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213177.zip) from Huawei: ***CR on requirements for problematic UAVs*** (CR to 22.125 #37 cat F v.17.3., Rel-17, WID: TEI17)

***Summary:*** Linked to S1-213119

***Conclusion:*** Withdrawn

[S1-213084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213084.zip) from Qualcomm [SA1]: ***[DRAFT] LS reply on requirements for problematic UAVs*** (LS out)

***Summary:*** Proposed answer: Based on previous discussion and similar issues raised in SA1, without convergence on alternative wording, it is suggested to remove the problematic requirement, [as per CR in S1-213085, to be attached to this LS].

***Discussion:*** Companion CR to remove the requirement in 3085.

For China Unicom, the requirement should stay.

Xiaomi and Nokia support removing the requirement.

***Conclusion:*** Noted

[S1-213085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213085.zip) from Qualcomm: ***Clarify requirements on unauthorized UAVs*** (CR to [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) #35 cat F v.17.3., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [ID\_UAS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810013))

***Conclusion:*** Noted

## 3.7 LSs on UAS terminology alignment

[S1-213198](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213198.zip) from SP-210579: ***LS on UAS terminology alignment*** (LS in)

***Summary:*** "Unmanned" to be changed to "uncrewed".

***Discussion:*** See related CRs in 3157, 3163 and 3167. Answer LS in 3171.

***Conclusion:*** Noted

[S1-213171](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213171.zip) from China Unicom: ***Reply LS to SA (cc SA3, SA6, SA2) on UAS terminology alignment*** (LS out)

***Summary:*** About SA's LS requesting the alignment of UAS terminology in Rel-17 specifications of TS 22.125 about the change of term of “Unmanned” to “Uncrewed”: SA1 has agreed the attached CR.

***Discussion:*** Rev1 presented and agreed.

***Conclusion:*** Revised to S1-213256

[S1-213256](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213256.zip) from 3GPP TSG SA1: ***LS to 3GPP TSG SA (cc 3GPP SA WG3, 3GPP SA WG6, 3GPP SA WG2) on Reply LS on UAS terminology alignment*** (LS out)

***Discussion:*** Revision of S1-213171. Same as 3171r1

***Conclusion:*** Agreed

[S1-213157](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213157.zip) from ETRI, China Unicom: ***UAS terminology alignment*** (CR to [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) #36 cat F v.17.3., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [EAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840039))

***Discussion:*** It will be investigated if the title of the spec can be changed, but this cannot be guaranteed because the Rel-16 version is completely frozen.

"ID\_UAS" to be used.

"Cat D" would be more appropriate.

***Conclusion:*** Revised to S1-213257

[S1-213257](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213257.zip) from ETRI, China Unicom: ***UAS terminology alignment*** (CR to 22.125 #36r1 cat D v.17.3., Rel-17, WID: ID\_UAS, EAV)

***Discussion:*** Revision of S1-213157. Same as 3157r1

***Conclusion:*** Agreed

[S1-213163](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213163.zip) from ETRI: ***UAS terminology alignment*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #575 cat F v.17.7., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** "Cat D" would be more appropriate.

"ID\_UAS" to be used.

***Conclusion:*** Revised to S1-213258

[S1-213258](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213258.zip) from ETRI, China Unicom: ***UAS terminology alignment*** (CR to 22.261 #575r1 cat D v.17.7., Rel-17, WID: ID\_UAS, EAV)

***Discussion:*** Revision of S1-213163. Same as 3163r2

***Conclusion:*** Agreed

[S1-213167](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213167.zip) from ETRI: ***UAS terminology alignment*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #576 cat A v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI18](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042))

***Discussion:*** rev1 to be pre-agreed, use EAV code

***Conclusion:*** Revised to S1-213259

[S1-213259](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213259.zip) from ETRI, China Unicom: ***UAS terminology alignment*** (CR to 22.261 #576r1 cat A v.18.3., Rel-18, WID: ID\_UAS, EAV)

***Discussion:*** Revision of S1-213167. Same as 3167r2

***Conclusion:*** Agreed

## 3.8 LSs on BBF and 3GPP collaboration on the 5G WWC project

[S1-213187](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213187.zip) from Broadband Forum LIAISE-467-03: ***LS on BBF and 3GPP collaboration on the 5G WWC project*** (LS in)

***Summary:*** BBF raises 2 points:

P1: We propose 3GPP SA1 collaborate with the BBF on study of requirements dealing with 5G RG as well as the management of 5G RG, especially when these requirements go beyond the role of the 5G RG acting as a 3GPP UE?

P2: Further, we would request an opportunity to review the proposed requirements related to a 5G RG and its remote management before any normative requirements would be defined within SA2.

***Discussion:*** Proposed answers in 3057 and 3011.

***Conclusion:*** Noted

[S1-213057](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213057.zip) from Huawei for SA1: ***LS to BBF Technical Committee Chair (cc SA2) on Reply LS on BBF request for collaboration with 3GPP SA1 on study of*** (LS out)

***Summary:*** A1: BBF collaboration with regard to providing SA1 further input and analysis is appreciated. 3GPP TR22.858 is attached.

A2: For the SA1 study item FS\_Resident, the targeted completion dates are SA#91 (03/2021) for information and SA#92 (06/2021) for approval. In the meantime, the related Rel-18 SA2 discussion has already started.

***Discussion:*** To be merged within KPN's answer in 3011r1.

***Conclusion:*** Merge in 3011r1

[S1-213011](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213011.zip) from KPN for SA1: ***LS to BBF Technical Committee Chair (cc SA2) on Reply LS on Alignment concerning 5G RG requirements and its remote*** (LS out)

***Summary:*** SA1 asks BBF to take the SA1 provided information into account and to provide feedback.

SA1 would welcome it if BBF and SA2 can collaborate (similar to the WWC work) on implementing PIRATES requirements related to residential gateway functionality. Any subdivision of work between BBF and 3GPP is left for BBF and SA2 to decide.

SA1 is also happy to provide clarifications of Stage 1 requirements to other groups working on implementation Stage 2 specifications and/or to align Stage 1 requirements with resulting Stage 2 specifications.

***Discussion:*** Material from Huawei to be included in rev1.

Neither SA nor SA2 are going to answer, and the chairs of these groups approve SA1 to answer.

Several typos, clean-up, rev marks to be removed.

Rev3 agreed

***Conclusion:*** Revised to S1-213260

[S1-213260](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213260.zip) from KPN: ***Reply LS to BBF Technical Committee Chair (cc SA2) on Alignment concerning 5G RG requirements and its remote management*** (LS out)

***Discussion:*** Content is ready to be agree. Revision of S1-213011. Same as 3011r3

***Conclusion:*** Agreed

## 3.9 LSs on Application Enablement for Data Integrity Verification Service in IOT

[S1-213195](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213195.zip) from S6-211496: ***LS on new SID on Application Enablement for Data Integrity Verification Service in IOT*** (LS in)

***Summary:*** A new study has been proposed in SA6 on the application layer support of the service for data integrity verification in IOT based on the stage 1 requirements in TS 22.261. In TS 22.261, the following requirement has been identified:

*Subject to regulatory requirements and based on operator policy, the 5G system shall provide a mechanism to support data integrity verification service to assure the integrity of the data exchanged between the 5G network and a third-party service provider.*

*NOTE: This requirement could apply to mechanisms supported over the interface between 5G core network and an external application, with no impact on RAN and UE.*

SA6 has endorsed the study contained in S6-211481. SA6 requests that SA3 comment on this proposed study prior to SA6 sending this study to SA#93-e plenary for approval.

***Discussion:*** Siemens is proposing an answer in S1-213111, even if SA1 was in copy.

SA3 is not going to send any reply.

Show of hands:

7 companies wish to send this LS now

10 companies prefer to wait for SA3's answer or think it is not needed

Qualcomm propose to check again in November, after talks with the SA3 and SA6 chairs.

***Conclusion:*** Postponed

[S1-213111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213111.zip) from Siemens for SA WG 1: ***LS to SA WG 6 (cc SA WG 3, SA) on [DRAFT] Reply LS pertaining to new SID on Application Enablement for Data Integrity Verification Service in IOT*** (LS out)

***Summary:*** Siemens believe that SA6's interpretation of SA1's requirement is not accurate, and proposes to correct it.

So SA6 is asked to Reconsider the justification of FS\_DIV as the currently referred-to Stage 1 requirement does not support the goal of FS\_DIV; and to reconsider the scope of FS\_DIV as the current scope includes features that lie outside the 3GPP scope.

***Discussion:*** For China Unicom, Huawei and ZTE, SA3 should answer first.

Rev1: tdoc number corrected.

Rev3: one objection from China Unicom

For Huawei, for IoT, there is end-to-end integrity protection to be considered. The technical details can be discussed between SA3 and SA6..

New tdoc number to be given.

***Conclusion:*** Revised to S1-213280

[S1-213280](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213280.zip) from SA WG 1: ***LS to SA WG 6, SA WG 3 on [DRAFT] Reply LS pertaining to new SID on Application Enablement for*** (LS out)

***Discussion:*** Revision of S1-213111. Same as 3111r3

***Conclusion:*** Agreed

## 3.10 LSs on Indication of country of UE location and its use in PLMN selection

[S1-213206](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213206.zip) from CT1: ***Indication of country of UE location and its use in PLMN selection*** (LS in)

***Summary:*** CT1 ask 3 questions to SA1:

1) Should the indication of UE location represent a "country" in the manner a "country" is defined in TS 23.122, or should the "country" be the TR 22.926 definition of "a country is defined as the area embedded within a set of borders and for which a unique set of regulations applies for the provision of communication services through mobile networks"?

Shall it be considered by the UE:

2) that the UE is not allowed in the current geographical position to select any PLMN which does not correspond to the indicated country of UE location; or

3) the UE might select available and allowable PLMNs of that indicated country and other countries.

***Conclusion:*** Postponed

[S1-213207](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213207.zip) from SA1: ***LS to CT1 (cc SA2, SA3-LI) on Reply LS on Indication of country of UE location and its use in PLMN*** (LS out)

***Summary:*** Proposed answer to S1-213206/ C1-214778

It is proposed to answer:

A1: SA1 suggests that the indication to the UE is based on MCC

A2: No, the UE is allowed to select and attempt access to any PLMN, also PLMNs that do not use the indicated MCC. 3GPP SA1 does not have any additional requirements on PLMN selection than those specified in TS 22.11.

A3: Yes. Note specifically that also shared MCC (e.g. MCC=901) should be allowed

***Discussion:*** More time needed for Huawei and Qualcomm

Rev1: no agreement at least by Qualcomm, who have opposite views on answers 2 and 3.

Apple has concerns to mention that the PLMN selection procedure has to be changed.

Rev2: OK for Apple and Ericcson, not for Qualcomm because of the sentence " An MCC cannot be assumed to represent a specific political country or area with a uniform set of regulations. CT1 should take into account the constraints of using MCC.". KPN do not accept to delete it: this LS should reflect SA1's view and not just repease CT1's discussions. Huawei and Nokia are willing to postpone the LS.

***Conclusion:*** Noted

## 3.11 Other LSs

[S1-213192](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213192.zip) from S2-2104794: ***LS on 5G capabilities exposure for factories of the future*** (LS in)

***Conclusion:*** Noted

[S1-213180](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213180.zip) from 5GAA S-210049: ***answer LS on support eCall over IMS over 3GPP SNPN*** (LS in)

***Conclusion:*** Noted

[S1-213182](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213182.zip) from NGMN Alliance Project “5G TDD Uplink”: ***LS on 5G NR TDD Uplink Throughput*** (LS in)

***Conclusion:*** Noted

[S1-213183](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213183.zip) from C1-213527: ***LS on UAC enhancements for minimization of service interruption when disaster condition applies*** (LS in)

***Conclusion:*** Noted

[S1-213186](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213186.zip) from C6-210180: ***LS for clarification on managing expired or multiple Protection Scheme and Home Network keys used for SUCI calculation*** (LS in)

***Conclusion:*** Noted

[S1-213190](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213190.zip) from R2-2106777: ***Reply LS on limited service availability of an SNPN*** (LS in)

***Conclusion:*** Noted

[S1-213188](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213188.zip) from ITU-T: ***LS on new work item on draft Recommendation ITU-T F.VG-VMA "Architecture of vehicular multimedia systems" [to various organizations]*** ( LS in)

***Conclusion:*** Noted

[S1-213196](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213196.zip) from S6-211497: ***LS on 5G capabilities exposure for factories of the future*** (LS in)

***Conclusion:*** Noted

[S1-213194](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213194.zip) from S3-212355: ***Reply LS on IP address to GPSI translation*** (LS in)

***Conclusion:*** Noted

# 4 New Study and Work Items (including related contributions)

## 4.1 Rel-18 WIDs

[S1-213108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213108.zip) from China Mobile, Xiaomi, KPN, Futurewei, vivo, ZTE,CATT, Interdigital: ***New WID on supporting tactile and multi-modality communication services*** (WID new)

***Discussion:*** Rev3: Orange also support.

3108r4 agreed

***Conclusion:*** Revised to S1-213261

[S1-213261](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213261.zip) from China Mobile, Xiaomi, KPN, Futurewei, vivo, ZTE,CATT, Interdigital: ***New WID on supporting tactile and multi-modality communication services*** (WID new)

***Discussion:*** Revision of S1-213108. Same as 3108r4

***Conclusion:*** Agreed

[S1-213138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213138.zip) from Qualcomm: ***New WID: Requirements on Vehicle-mounted relays*** (WID new)

***Summary:*** WID for the normative work VMR following the FS\_VMR study.

***Discussion:*** UIC also support.

Satellite access now proposed to be included, but not acceptable.

Multi-link proposed, and accepted.

***Conclusion:*** Revised to S1-213262

[S1-213262](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213262.zip) from Qualcomm: ***New WID: Requirements on Vehicle-mounted relays*** (other)

***Discussion:*** Revision of S1-213138. Same as 3138r1

***Conclusion:*** Agreed

[S1-213178](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213178.zip) from vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo, Philips, Apple, Nokia, Nokia Shanghai Bell, Spreadtrum, Futurewei, Intel, Huawei: ***Revised WID on Pirates to add a supporting company*** (WID revised)

***Discussion:*** Revision from SA1#94bis.

R1: ETRI also supports.

Rev2 agreed

***Conclusion:*** Revised to S1-213263

[S1-213263](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213263.zip) from vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo,: ***New WID on PIN + Resident Service requirements*** (WID new)

***Discussion:*** Revision of S1-213178. Same as 3178r2

***Conclusion:*** Agreed

## 4.2 WIDs on Service exposure interfaces for industry

[S1-213027](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213027.zip) from Siemens, Huawei, Harting, Daimler: ***New work item on service exposure for industrial automation*** (WID new)

***Summary:*** This work items proposes new normative service exposure requirements for TS 22.261, and it also corrects and augments existing TS 22.261 requirements. All pursuant change requests are based on specific requirements in the 5G-ACIA document “Exposure of 5G Capabilities for Connected Industries and Automation Applications”.

The topics covered in the change requests are

- QoS monitoring;

- UE group management;

- UE position information;

- network monitoring; and

- security.

***Discussion:*** Rev4: 3027 is related to the SEES WID.

Deutsche Telekom also supports.

Rev6: acceptable, just clean-up needed.

Rev7: "New work item on" to be deleted from title.

Rev8 agreed.

***Conclusion:*** Revised to S1-213264

[S1-213264](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213264.zip) from Siemens, Huawei, Harting, Mercedes-Benz: ***New work item on service exposure for industrial automation*** (other)

***Discussion:*** Revision of S1-213027. Same as 3027r8

***Conclusion:*** Agreed

[S1-213028](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213028.zip) from Siemens, Harting, Daimler: ***Discussion of EXPOSE change requests*** (discussion)

***Summary:*** This discussion paper provides information on the change requests that accompany the new work item description EXPOSE ([S1-213027](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213027.zip)).

***Conclusion:*** Noted

[S1-213030](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213030.zip) from Siemens, Harting, Daimler: ***EXPOSE: addition to QoS monitoring requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #542 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** A note is added to the requirement that addresses the notification of events. This note extends the meaning of the term “event”. It is explained that the response time to monitoring request is subject to negotiation between the user and the 5G system. It is also explained that the time span for collection and evaluation of statistical values can be specified by the user.  
A requirement concerning QoS monitoring of groups of UEs is added.

***Discussion:*** R2: needs more work, in particular for statements like "The groups of UEs can but must not be the same as a LAN-type group" (at least "need not" would be a better form). A better wording would be: "The group of UEs may be the same as a LAN-type group, but this is not necessarily the case for all groups of UEs.".

R4: not mentioning "commercial services" anymore.

For Samsung and Ericsson, the range of 3 km is not achievable with current technologies. The NLoS in brackets is also infeasible. Something like 50% improvement is somehow possible and advantageous.

For ZTE, "comply with local regulations" has to be added also in the definition section.

For Deutsche Telekom, it is important to specify that this will happen in specific bands and not in the operator's bands.

Nokia and Huawei also have concerns, in particular about the range. This 3km range would imply deep technological changes.

***Conclusion:*** Revised to S1-213265

[S1-213265](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213265.zip) from Siemens, Harting, Mercedes-Benz: ***EXPOSE: addition to QoS monitoring requirements*** (CR to 22.261 #542r1 cat B v.18.3., Rel-18, WID: EXPOSE)

***Discussion:*** Revision of S1-213030. 3030r5

***Conclusion:*** Agreed

[S1-213032](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213032.zip) from Siemens, Harting, Daimler: ***EXPOSE: correction of a QoS monitoring requirement*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #543 cat F v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** The second sentence of the requirement that addresses logs of communication events is replaced with a note that also explains what is meant by the term “communication event” and this note also extends the meaning of “event”.

***Discussion:*** r2 agreed

***Conclusion:*** Revised to S1-213266

[S1-213266](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213266.zip) from Siemens, Harting, Mercedes-Benz: ***EXPOSE: correction of a QoS monitoring requirement*** (CR to 22.261 #543r1 cat F v.18.3., Rel-18, WID: EXPOSE)

***Discussion:*** Revision of S1-213032. 3032r2

***Conclusion:*** Agreed

[S1-213033](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213033.zip) from Siemens, Harting, Daimler: ***EXPOSE: addition of position uncertainty*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #544 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** Providing the uncertainty of the UE position to the 5G network is added to the positioning service requirements in 22.261, clause 6.27. Also, the self-referential mentioning of the “5G system” is replaced with the more accurate “5G network”

***Discussion:*** r2 agreed

***Conclusion:*** Revised to S1-213267

[S1-213267](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213267.zip) from Siemens, Harting, Mercedes-Benz: ***EXPOSE: addition of position accuracy*** (CR to 22.261 #544r1 cat B v.18.3., Rel-18, WID: EXPOSE)

***Discussion:*** Revision of S1-213033. Same as 3033r2

***Conclusion:*** Agreed

## 4.3 WIDs on MPS when access to EPC/5GC is WLAN

[S1-213070](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213070.zip) from Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon: ***New WID on MPS when access to EPC/5GC is WLAN*** (WID new)

***Summary:*** This is a new WID on MPS when access to EPC/5GC is WLAN.

***Discussion:*** No comment.

Rev1 agreed

***Conclusion:*** Revised to S1-213268

[S1-213268](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213268.zip) from Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon: ***New WID on MPS when access to EPC/5GC is WLAN*** (WID new)

***Discussion:*** r1 agreed Revision of S1-213070. Same as 3070r1

***Conclusion:*** Agreed

[S1-213073](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213073.zip) from Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon: ***MPS when access to EPC/5GC is WLAN*** (CR to [22.153](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) #49 cat B v.17.2., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** This is a CR updating TS 22.153 to explicitly cover MPS when the access to EPC/5GC is WLAN

***Discussion:*** Mistakes cover page: revision, WI code, date.

For Qualcomm, the impacts of these changes (to add WLAN access) might be quite important.

For Peraton, this is quite in line with 22.11 and 22.261.

Changes to the notes are agreed to be removed.

But still open, more discussions needed off-line at least between Qualcomm and Peraton.

r1 agreed.

***Conclusion:*** Revised to S1-213269

[S1-213269](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213269.zip) from Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon: ***MPS when access to EPC/5GC is WLAN*** (CR to 22.153 #49r1 cat B v.17.2., Rel-18, WID: MPS\_WLAN)

***Discussion:*** Revision of S1-213073. Same as 3073r2

***Conclusion:*** Agreed

## 4.4 WIDs on Supporting Ad Hoc Group Communication in Mission Critical Services

[S1-213129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213129.zip) from Samsung, FirstNet, AT&T, Ericsson, Kontron, Motorola Solutions, Nokia, Nokia: ***New WID on supporting Ad Hoc Group Communication in Mission Critical*** (WID new)

***Summary:*** This feature identifies the requirements for Ad hoc Group communication and includes them in TS 22.280.

***Discussion:*** Section 5 not completed.

For Huawei, there are similar functionalities already defined. The new elements should be highlighted.

r1 agreed

***Conclusion:*** Revised to S1-213270

[S1-213270](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213270.zip) from Samsung, FirstNet, AT&T, Ericsson, Kontron, Motorola Solutions, Nokia, Nokia: ***New WID on supporting Ad Hoc Group Communication in Mission Critical*** (WID new)

***Discussion:*** Revision of S1-213129. Same as 3129r1

***Conclusion:*** Agreed

[S1-213131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213131.zip) from Samsung R&D Institute UK: ***New WID proposal - Ad hoc Group Communication (AHGC) support in Mission Critical Services*** (discussion)

***Summary:*** This presentation clarifies the need for Ad Hoc Group Communication (AHGC), the gaps in the existing system and the opportunities the feature brings.

***Discussion:*** Introduction of the WID (S1-213129) and the CR (S1-213105).

***Conclusion:*** Noted

[S1-213105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213105.zip) from FirstNet, Samsung, Ericsson, Kontron Transportation France, UIC: ***Ad hoc group call requirements*** (CR to [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) #148 cat B v.17.6., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [MCImp-MCCoRe](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=700028))

***Summary:*** Ad hoc group call is a feature found in commercial PTT systems such as those based on OMA-PoC, including some mission critical systems. There is now interest by some public safety operators to standardize this feature. A new section containing ad hoc group call requirements is proposed to be added, plus some changes in existing sections.

This CR adds the AHGC presented in 3129.

***Discussion:*** Wrong WI code.

Huawei request for more time.

New requirements to come from the Police of the Netherlands.

Some incorrect styles (headings, notes,...)

Rev2 agreed

***Conclusion:*** Revised to S1-213271

[S1-213271](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213271.zip) from FirstNet, Samsung, Ericsson, Kontron Transportation France, UIC: ***Ad hoc group call requirements*** (CR to 22.280 #148r1 cat B v.17.6., Rel-18, WID: AHGC)

***Discussion:*** Revision of S1-213105. 3105r2

***Conclusion:*** Agreed

## 4.5 WIDs on ProSe Extreme Range

[S1-213141](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213141.zip) from Apple: ***New WID on ProSe Extreme Range (ProSe\_ER)*** ( WID new)

***Discussion:*** Rev2: KPN clarified that Maritime KPI according to 22.119 is 10 Nautical Miles (but with Line of Sight) instead of 3 km (without Line of Sight).

***Conclusion:*** Noted

[S1-213140](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213140.zip) from Apple: ***Proposal for ProSe Extreme Range*** (discussion)

***Summary:*** This is a supporting contribution for 3141. The new WID is to extend the range of ProSe from 1km to 3km.

***Conclusion:*** Noted

[S1-213142](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213142.zip) from Apple, Convida Wireless, FirstNet, MITRE Corporation, Netherlands Police: ***ProSe Extreme Range*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #569 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** A new clause is introduced on Extreme-Range ProSe that introduce 5GS support for extreme range ProSe discovery and ProSe communications, with a guideline on the expected throughput and latency KPIs at the maximum range.

***Discussion:*** Rev2: There are lots of e-mail discussions with pro and cons companies.

Huawei support it, except for the range, which seems to be the essence of the new service.

Nokia mentioned that there is already a 3km range for railways, and this was not able to be fulfilled in stage 2 and 3 for whatever reason (technical, or the WGs are overloaded, etc.).

For Nokia too, the range has to be in the context of a service, and cannot be seen as the service itself.

LGE has concerns about the technical complexity, and the needed increased power, for the wide audience. This could be OK for public safety and/or Railways.

For FirstNet, more and more verticals are going to need this service.

For Deutsche Telekom, there is no commercial interest for this function. At least, some use cases should be mentioned.

For KPN, non-operator managed spectrum is not the same as unlicensed spectrum. Operator managemed spectrum implies that there is a network running in the same frequency band. Operator management of direct communication becomes quite difficult in extreme range use cases. It implies that both UEs can get access to the network to get authorisation for using frequency resources for direct communication.

Huawei propose to start submitting this in RAN as to check the technical feasibility.

Apple has already answered to most of these concerns online. Apple takes note that the global feeling of the group is to have it for specific usage(s) to be specified and not general applicability.

***Conclusion:*** Noted

## 4.6 WIDs on IIoT time synchronization requirements

[S1-213158](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213158.zip) from Qualcomm: ***New WID: Enhancements to time synchronization requirements*** (WID new)

***Summary:*** This work item aims to update service requirements in TS 22.104 related to time synchronization, in particular to define

- the applicability of time synchronization requirements when using direct device connection, including

- time synchronization mechanisms (e.g., gPTP, PTP, 5G clock)

- UE connectivity to clock domain sync master

- Applicability of KPIs for working clock synchronization accuracy

- synchronization requirements for process automation, including when using indirect network connection.

***Discussion:*** No concern, corresponding CR in 3155 (previously 3159 and 3160).

No WID needed: better to correct from the first Release and use the WID code when this unclarity appears (eCAV).

***Conclusion:*** Noted

[S1-213237](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213237.zip) from Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc.: ***Clarification of requirements for time synchronization with direct device connection and indirect network connection communication*** (CR to 22.104 #88 cat F v.17.6., Rel-17, WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** Predecessor of 3155

***Discussion:*** r1 approval day (o: Qualcomm)

Qualcomm agrees for Rel-18 onwards, not for previous Releases.

Rel-18 only agreed, CR code is then " TEI18,eCAV"

***Conclusion:*** Withdrawn

[S1-213155](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213155.zip) from Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc.: ***Clarification of requirements for time synchronization with direct device connection and indirect network connection communication*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #84 cat F v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** CR that corresponds to the new WID in 3158.

***Discussion:*** several formatting problems (extra line breaks at the beginning of the doc, incorrect styles). Problem with the Note numbering.

Qualcomm support to use this CR instead of their own ones in 3159 and 3160.

Siemens' Major concern is to separate direct device connection and indirect network connection into separate chapters due to major conceptual differences.

A Rel-17 predecessor is now proposed in 3237.

Several paragraphs to be rewritten.

Rev6 agreed

***Conclusion:*** Revised to S1-213272

[S1-213272](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213272.zip) from Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc.: ***Clarification of requirements for clock synchronization with direct device connection and indirect network connection communication*** (CR to 22.104 #84r1 cat F v.18.1., Rel-18, WID: TEI18, eCAV)

***Discussion:*** Revision of S1-213155. Same as 3155r6

***Conclusion:*** Agreed

[S1-213159](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213159.zip) from Qualcomm: ***Synchronization requirements for direct device connection*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #85 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Discussion:*** Wrong WI code

***Conclusion:*** Noted

[S1-213160](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213160.zip) from Qualcomm: ***Time synchronization requirements for process automation*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #86 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Discussion:*** Wrong WI code

***Conclusion:*** Noted

## 4.7 WIDs on Clarifying NPN in 22.261

[S1-213169](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213169.zip) from Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications: ***New WID on clarifying NPN in 22.261*** (WID new)

***Discussion:*** For this mini-WID and the other ones, MCC has some overall concerns about the process of correcting the requirements only in Rel-18 and leave the previous Releases incorrect. It could be better to take the original WID and correct all the Releases.

No WID needed: better to correct from the first Release and use the WID code when this unclarity appears (eCAV).

***Conclusion:*** Noted

[S1-213238](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213238.zip) from Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell: ***Clarification of NPN in 22.261*** (CR to 22.261 #579 cat F v.17.7., Rel-17, WID: AVPROD)

***Summary:*** Predecessor of 3170

***Discussion:*** orig. approval day (o: Qualcomm)

Same concern for Qualcomm as for 3237/3238.

***Conclusion:*** Noted

[S1-213170](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213170.zip) from Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell: ***Clarification of NPN in 22.261*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #518r2 cat D v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Discussion:*** Wrong WI code, this is not catD.

There are a lot of "should" in descriptive text that has to be deleted.

3170r7: agreed, WID "TEI18, AVPROD"

***Conclusion:*** Revised to S1-213273

[S1-213273](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213273.zip) from Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell: ***Clarification of NPN in 22.261*** (CR to 22.261 #518r3 cat F v.18.3., Rel-18, WID: TEI18, AVPROD)

***Discussion:*** CR0518R- Cat F Revision of S1-213170. Same as 3170r7

***Conclusion:*** Agreed

## 4.7 WIDs on Rel-19 SIDs

[S1-213015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213015.zip) from NTIA: ***New SID on Spectrum Sharing with Incompatible Radio Systems*** (SID new)

***Summary:*** This study item proposes to evaluate use cases and requirements to enhance spectrum sharing in licensed spectrum with a specific focus on optimizing 5G operations in bands with incompatible radio system(s) (meaning two radio systems not designed/optimized for compatibility), such as RADAR, land mobile radio, radio astronomy, etc., that may have priority in the band, may not have priority in the band, or might be co-equal in the band.

***Discussion:*** Deutsche Telekom wonder if SA1 is the right place to discuss this. They think it is more a RAN topic.

Huawei and NTIA will work on a revised version for next meeting.

***Conclusion:*** Noted

[S1-213175](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213175.zip) from NTIA: ***Supporting slides for the Rel-19 SID on spectrum sharing with incompatible radio systems in*** [***S1-213015***](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213015.zip)(Discussion)

***Summary:*** These are supporting slides for a study to identify use cases and define potential requirements to.

Explore spectrum sharing use cases where incompatible radio systems

Explore use cases for different access priority schemes

Explore key performance indicators that would facilitate real time spectrum sharing.

Explore security considerations (including risks, availability, etc. to incumbents).

***Discussion:*** Actual WID in 3015

***Conclusion:*** Noted

[S1-213046](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213046.zip) from OPPO: ***New SID: Study on Wireless Power Sourcing enabled Communication Services (WPSCS)*** ( SID new)

***Summary:*** This study is aiming at identifying new use cases, service requirements and KPI requirements related to the support of energy harvesting enabled communication services in 5GS, through the harvesting of radio waves, light, motion, heat, or any other power source that could be seen suitable.

***Discussion:*** Qualcomm proposes to wait until the November meeting: this will allow the see what RAN will do.

Interested companies to work on a new version for next meeting.

***Conclusion:*** Noted

[S1-213047](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213047.zip) from OPPO: ***Motivaton of support Ultra-power communication Services in 5GS*** (discussion)

***Summary:*** Supporting slides for the WID in 3046.

***Conclusion:*** Noted

[S1-213077](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213077.zip) from Xiaomi: ***New SID on 3GPP based Wireless Sensing Services (FS\_3GPP\_WSS)*** ( SID new)

***Summary:*** The objective of this study item is to identify the use cases and potential requirements for services utilizing wireless sensing that use scattered radio waves to determine the distance (range), angle, or instantaneous linear velocity of an object.

***Discussion:*** Several companies prefer to have more time to discuss this in between meetings.

Also to be progressed in between meetings.

***Conclusion:*** Noted

[S1-213078](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213078.zip) from Xiaomi: ***3GPP based Wireless Sensing Services*** (discussion)

***Summary:*** Presentation to introduce 3077

***Conclusion:*** Noted

[S1-213088](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213088.zip) from China Mobile: ***New SID on Additional capabilities of mobile networks for drone (FS\_DOM)*** ( SID new)

***Summary:*** The objectives of this work item are to specify requirements on additional capabilities of mobile networks for drone operations and management.

***Discussion:*** Rev2: More discussions needed

***Conclusion:*** Noted

[S1-213086](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213086.zip) from China Mobile Com. Corporation: ***Discussion on additional capabilities of mobile networks for drone operations and management*** (SID new)

***Summary:*** It introduces the WID in 3088.

***Conclusion:*** Noted

[S1-213164](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213164.zip) from LG Electronics, LG Uplus, OPPO: ***Feasibility Study on 5G System Support for Service-Oriented Robots (FS\_SOBOT)*** ( SID new)

***Summary:*** The objective of this study is to identify use cases and the related potential service and performance requirements for 5G system to support communications of a network of service robots that recognize objects and surroundings and are often used in unstructured settings

***Discussion:*** Rev5 presented.

Sections 7 & 8 are not filled up.

Huawei and Ericsson do not understand the sensing part (3rd bullet) and why this needs to be part of 3gpp.

For Nokia, this WID is improving but it is not yet ready for approval.

Also to be progressed in between meetings

***Conclusion:*** Noted

[S1-213165](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213165.zip) from LG Electronics Inc.: ***Study on 5G System Support for Service Robots (Presentation) - Cloud-based Robot Operations and their networking design considerations - Part I*** (discussion)

***Summary:*** Presentation material for S1- 213164.

***Discussion:*** Rev1.

See SID in 3164.

***Conclusion:*** Noted

[S1-213109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213109.zip) from China Mobile: ***New SID on supporting Computing Aware Network (FS\_CAN)*** ( SID new)

***Summary:*** This study is aiming at identifying use cases, providing gap analysis and defining potential requirements in the following aspects regarding computing aware network.

***Discussion:*** Ericsson has a general concern about new versions being uploaded minutes before they are presented.

Samsung underlined that several related functionalities have been defined in previous Releases (edge computing, etc) and do not understand what is new here.

KDDI pointed out that there was a proposal which has similar concept in SA2 from China Telecom.

***Conclusion:*** Noted

[S1-213166](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213166.zip) from Philips International B.V.: ***New WID on clarifying NPN in 22.261*** (WID new)

***Conclusion:*** Withdrawn

[S1-213168](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213168.zip) from Philips International B.V.: ***Clarification of NPN in 22.261*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #518r1 cat D v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Conclusion:*** Withdrawn

[S1-213034](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213034.zip) from Siemens: ***EXPO: privisioning and onboarding of UE groups*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #545 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** Requirements concerning the authentication and the authorization of UE groups are added to 22.261.

***Conclusion:*** Withdrawn

[S1-213087](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213087.zip) from China Mobile Com. Corporation: ***New SID on Additional capabilities of mobile networks for drone operations and management*** (SID new)

***Conclusion:*** Withdrawn

# 5 Quality improvement contributions

[S1-213213](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213213.zip) from Siemens, Harting, Mercedes-Benz: ***Editorial improvement of a QoS monitoring requirement*** (CR to 22.261 #578 cat D v.17.7., Rel-17, WID: eCAV)

***Summary:*** From S1-211029

***Conclusion:*** Agreed

[S1-213029](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213029.zip) from Siemens, Harting, Daimler: ***EXPOSE: editorial improvement of a QoS monitoring requirement*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #541 cat D v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** The intelligility of the requirement in clause 6.23.2 that pertains to the update frequency is improved.

***Discussion:*** R1: agreed, eCAV is now the acronym

***Conclusion:*** Revised to S1-213274

[S1-213274](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213274.zip) from Siemens, Harting, Mercedes-Benz: ***EXPOSE: editorial improvement of a QoS monitoring requirement*** (CR to 22.261 #541r1 cat A v.18.3., Rel-18, WID: eCAV)

***Discussion:*** Moved from 4 Revision of S1-213029. Same as 3029r3

***Conclusion:*** Agreed

[S1-213016](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213016.zip) from Siemens: ***Quality improvement: update of reference to IEEE 802.1AS*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #76 cat D v.17.6., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [eCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840041))

***Summary:*** Reference is updated to current version of IEEE 802.1AS

***Discussion:*** 3016r2 pre-agreed

***Conclusion:*** Revised to S1-213275

[S1-213275](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213275.zip) from Siemens: ***Quality improvement: update of reference to IEEE 802.1AS*** (CR to 22.104 #76r1 cat D v.17.6., Rel-17, WID: eCAV)

***Discussion:*** Revision of S1-213016. Same as 3016r2

***Conclusion:*** Agreed

[S1-213017](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213017.zip) from Siemens: ***Quality improvement: update of reference to IEEE 802.1AS*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #77 cat A v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [eCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840041))

***Summary:*** Reference is updated to current version of IEEE 802.1AS.

***Discussion:*** 3017r2 pre-agreed

***Conclusion:*** Revised to S1-213276

[S1-213276](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213276.zip) from Siemens: ***Quality improvement: update of reference to IEEE 802.1AS*** (CR to 22.104 #77r2 cat A v.18.1., Rel-18, WID: eCAV)

***Discussion:*** Revision of S1-213017. Same as 3017r2

***Conclusion:*** Agreed

[S1-213058](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213058.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliability definition*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #554 cat F v.15.8., [Rel-15](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=190), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Discussion:*** 3058r2 pre-agreed

***Conclusion:*** Revised to S1-213277

[S1-213277](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213277.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliability definition*** (CR to 22.261 #554r1 cat F v.15.8., Rel-15, WID: SMARTER)

***Discussion:*** F Revision of S1-213058. Same as 3058r2

***Conclusion:*** Agreed

[S1-213059](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213059.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliabilty definition*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #555 cat A v.16.14., [Rel-16](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Discussion:*** 3059r2 pre- agreed

***Conclusion:*** Revised to S1-213278

[S1-213278](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213278.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliabilty definition*** (CR to 22.261 #555r1 cat A v.16.14., Rel-16, WID: SMARTER)

***Discussion:*** A Revision of S1-213059. Same as 3059r2

***Conclusion:*** Agreed

[S1-213060](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213060.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliabilty definition*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #556 cat A v.17.7., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Discussion:*** 3060r2 pre-agreed

***Conclusion:*** Revised to S1-213279

[S1-213279](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213279.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliabilty definition*** (CR to 22.261 #556r1 cat A v.17.7., Rel-17, WID: SMARTER)

***Discussion:*** A Revision of S1-213060. Same 3060r2

***Conclusion:*** Agreed

[S1-213061](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213061.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliabilty definition*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #557 cat A v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Discussion:*** 3061r2 pre-agreed

***Conclusion:*** Revised to S1-213281

[S1-213281](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213281.zip) from Nokia, Nokia Shanghai Bell, Futurewei: ***Correction to Reliabilty definition*** (CR to 22.261 #557r1 cat A v.18.3., Rel-18, WID: SMARTER)

***Discussion:*** A Revision of S1-213061. Same as 3061r2

***Conclusion:*** Agreed

[S1-213124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213124.zip) from ETRI: ***Reference correction*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #566 cat D v.17.7., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Conclusion:*** Agreed

[S1-213130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213130.zip) from ETRI: ***Editorial corrections for references, abbreviations and clause 6.36*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #567 cat D v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI18](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042))

***Discussion:*** Rev1 agreed

***Conclusion:*** Revised to S1-213282

[S1-213282](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213282.zip) from ETRI: ***Editorial corrections for references, abbreviations and clauses 6.36, 8.10 and 9.3*** (CR to 22.261 #567r1 cat D v.18.3., Rel-18, WID: TEI18)

***Discussion:*** Revision of S1-213130. Same as 3130r1

***Conclusion:*** Agreed

[S1-213173](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213173.zip) from Apple: ***Summary of CRs correcting the term air interface*** (Discussion)

***Discussion:*** Replaced by 33335 because of problem with database.

***Conclusion:*** Withdrawn

[S1-213335](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213335.zip) from Apple: ***Summary of CRs correcting the term air interface*** (Discussion)

***Summary:*** Replaces 3173 because of problem with database.

***Conclusion:*** Noted

[S1-213147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213147.zip) from Apple: ***Correction of 'air interface' terminology*** (CR to [22.11](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) #324 cat D v.17.3., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Conclusion:*** Agreed

[S1-213149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213149.zip) from Apple: ***Correction of 'air interface' terminology*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #572 cat D v.17.7., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Conclusion:*** Agreed

[S1-213145](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213145.zip) from Apple: ***Correction of 'air interface' terminology*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #571 cat D v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** r1 agreed

***Conclusion:*** Revised to S1-213283

[S1-213283](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213283.zip) from Apple: ***Correction of 'air interface' terminology*** (CR to 22.261 #571r1 cat A v.18.3., Rel-18, WID: TEI17)

***Discussion:*** Revision of S1-213145. Same as 3145r1

***Conclusion:*** Agreed

[S1-213150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213150.zip) from Apple: ***Correction of 'air interface' terminology*** (CR to [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) #577 cat D v.17.3., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Conclusion:*** Agreed

[S1-213146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213146.zip) from Apple: ***Correction of 'air interface' terminology*** (CR to [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) #576 cat D v.18.1.1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Conclusion:*** Agreed

[S1-213148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213148.zip) from Apple: ***CR to 22.278 v17.2. on Correction of 'air interface' terminology*** (CR to [22.278](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=641) #288 cat D v.17.2., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Conclusion:*** Withdrawn

# 6 Rel-17 and earlier contributions

## 6.1 Rel-17 correction and clarification CRs

[S1-213031](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213031.zip) from BDBOS: ***Correction - Adding missing requirements into tables in the normative Annexes*** (CR to [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) #147 cat F v.17.6., [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192), WID: [MONASTERY2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=760054))

***Discussion:*** Wrong revision counter

***Conclusion:*** Agreed

[S1-213112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213112.zip) from China Mobile: ***Support of non-3GPP satellite access for legacy satellite UE not supporting N1 mode*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #561 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** Wrong release or wrong version

***Conclusion:*** Noted

## 6.2 Release 16 Alignment CRs (aligning Stage 1 specifications with what has been implemented in Stage 2 and 3)

There was no contribution for this agenda item.

## 6.3 Rel-16 and earlier CRs (other than alignment)

There was no contribution for this agenda item.

# 7 Rel18 contributions

## 7.1 MMTELin5G

### 7.1.1 FS\_MMTELin5G: Study on evolution of IMS multimedia telephony service [SP-190836]

There was no contribution for this agenda item.

### 7.1.2 MMTELin5G: Evolution of IMS Multimedia Telephony Service [SP-210519]

[S1-213045](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213045.zip) from China Mobile, Huawei, Deutsche Telekom: ***Evolution of IMS Multimedia Telephony Service*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #549 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [eMMTEL](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920029))

***Discussion:*** Can we change the title of subclause 6.38.1 to Description?

***Conclusion:*** Revised to S1-213284

[S1-213284](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213284.zip) from China Mobile, Huawei, Deutsche Telekom: ***Evolution of IMS Multimedia Telephony Service*** (CR to 22.261 #549r1 cat B v.18.3., Rel-18, WID: eMMTEL)

***Discussion:*** Revision of S1-213045. Same 3045r1

***Conclusion:*** Agreed

## 7.2 SACI\_MCS

### 7.2.1 FS\_ SACI\_MCS: Study on sharing administrative configuration between interconnected MCX Service systems [SP-190837]

There was no contribution for this agenda item.

### 7.2.2 SACI\_MCS: Sharing administrative configuration between interconnected MCX Service systems [S1-212023]

[S1-213026](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213026.zip) from BDBOS, Home Office: ***Sharing administrative configuration between Mission Critical Organizations*** (CR to [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) #146 cat B v.17.6., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_SACI\_MCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850043))

***Discussion:*** r1 agreed (fixing revision counter)

***Conclusion:*** Revised to S1-213285

[S1-213285](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213285.zip) from BDBOS, Home Office: ***Sharing administrative configuration between Mission Critical Organizations*** (CR to 22.280 #146r1 cat B v.17.6., Rel-18, WID: SACI\_MCS)

***Discussion:*** B Revision of S1-213026 Same as 3026r1

***Conclusion:*** Agreed

## 7.3 RAILSS

### 7.3.1 FS\_RAILSS: Study on Supporting of Railway Smart Station Services [SP-190838]

[S1-213101](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213101.zip) from Kyonggi University: ***Update of Section 3 (definitions)*** ( discussion)

***Summary:*** This contribution is to provide an update of Section 3. Specifically, a new term related with a location information is defined and added in the sub-section 3.1.

***Discussion:*** r1: typo in the "zone" def.

rev2 agreed

***Conclusion:*** Revised to S1-213286

[S1-213286](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213286.zip) from Kyonggi University: ***Update of Section 3 (definitions)*** ( other)

***Discussion:*** Revision of S1-213101. Same as 3101r2

***Conclusion:*** Agreed

[S1-213102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213102.zip) from Kyonggi University: ***Transportation convenience service for the weak*** (discussion)

***Summary:*** This contribution is to provide a use case for the transportation convenience service for the weak in Section 7.

***Discussion:*** r6 approval day (o: Huawei, Qualcomm).

UIC can agree on rev6.

The intention is now to have this work done for Rel-19.

The last 3 requirements are now proposed to be deleted, only the 1st one to be kept with a statement that this is FFS.

New text has to be shown as new (rev marks have to be used against the current version of the TR, not against the previous version of the tdoc).

UIC pointed out again that this is not very fair to ask for deletion of requirements without having participated to the thread.

Rev7 agreed with these changes.

***Conclusion:*** Revised to S1-213287

[S1-213287](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213287.zip) from Kyonggi University: ***Transportation convenience service for the passengers for the reduced mobility*** (other)

***Discussion:*** Revision of S1-213102. Same as 3102r7

***Conclusion:*** Agreed

[S1-213239](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213239.zip) from Rapporteur (Hansung University): ***TR22.890v0.5. to include agreements at this meeting*** (draft TR)

***Discussion:*** First draft by Mon 6th 23:00 UTC Comments till Tue 7th 23:00UTC Final version by Wed 8th 23:00UTC

***Conclusion:*** Agreed

## 7.4 AMMT

### 7.4.1 FS\_AMMT: Study on AI/ML Model Transfer in 5GS [SP-191040]

[S1-213096](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213096.zip) from OPPO: ***FS\_AMMT update to Functional requirements for AMMT services*** (CR to [22.874](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) #1 cat C v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009))

***Summary:*** update to Functional requirements for AMMT services

***Discussion:*** Needs to be a CR

Rev2: now a CR.

Several format issues.

Nokia has several technical issues, with some mechanisms already supported, other ones for which the interest is questioned, etc.

Qualcomm has several issues too.

Rev6: Nokia not to add a new requirement coming with an EN, better to first resolve the FFS and then propose the requirement

Still problem in numbering the CPR

CPR-0x2 not acceptable for Nokia.

Rev9: final clean-up needed.

Rev10 agreed

***Conclusion:*** Revised to S1-213288

[S1-213288](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213288.zip) from OPPO: ***FS\_AMMT update to Functional requirements for AMMT services*** (CR to 22.874 #1r1 cat B v.18..1, Rel-18, WID: AMMT)

***Discussion:*** Revision of S1-213096. Same as 3096r10

***Conclusion:*** Agreed

[S1-213097](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213097.zip) from OPPO: ***FS\_AMMT update to clause 7.4 Group performance Flocking Use Case*** (CR to [22.874](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) #2 cat C v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009))

***Summary:*** update to clause 7.4 Group performance Flocking Use Case

***Discussion:*** Needs to be a CR

Rev2: now a CR.

Several format issues.

To be aligned with 3144 offline.

Rev4: formatting problems

Rev5 agreed

***Conclusion:*** Revised to S1-213289

[S1-213289](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213289.zip) from OPPO: ***FS\_AMMT update to clause 7.4 Group performance Flocking Use Case*** (CR to 22.874 #2r1 cat B v.18..1, Rel-18, WID: AMMT)

***Discussion:*** Revision of S1-213097. Same as 3097r5

***Conclusion:*** Agreed

### 7.4.2 AMMT: AI/ML model transfer in 5GS [SP-210587]

[S1-213049](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213049.zip) from OPPO: ***Adding performance requirements for AMMT*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #551 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920037))

***Summary:*** Adding functional requirements of AI/ML model transfer (AMMT) in 5GS to TS 22.261 reflecting the study outputs from TR 22.874.

***Discussion:*** Wrong revision counter, wrong format of the CR, wrong section of 22.261.

Rev4: still several formatting problem. Linked to the other CRs (3096 and 3097).

Rev8: To be aligned with the latest version of 3096.

Still several points not solved at Rev8.

Several formatting problems (wrong styles, wrong numbers, no numbers, wrong use of colors, etc).

R11: highlighted text to be removed

R12 agreed..

***Conclusion:*** Revised to S1-213290

[S1-213290](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213290.zip) from OPPO: ***Adding requirements for AMMT*** (CR to 22.261 #551r1 cat B v.18.3., Rel-18, WID: AMMT)

***Discussion:*** Revision of S1-213049. Same as 3049r12

***Conclusion:*** Agreed

[S1-213050](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213050.zip) from OPPO: ***Adding performance requirements for AMMT*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #552 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920037))

***Summary:*** Adding performance requirements of AI/ML model transfer (AMMT) in 5GS to TS 22.261 reflecting the study outputs from TR 22.875.

***Discussion:*** Wrong revision counter

Rev2: all the text is new and will be shown as such in the final version

Rev4: still rev marks on rev marks

Rev5 agreed.

About Corresponding changes to be brought or not to the TR: this is not for this meeting. It has not been done consistently and it is not needed, since TRs can be seen as building material.

***Conclusion:*** Revised to S1-213291

[S1-213291](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213291.zip) from OPPO: ***CR22.261v18.3. Adding performance requirements for AMMT*** (CR to 22.261 #552r1 cat B v.18.3., Rel-18, WID: AMMT)

***Discussion:*** Revision of S1-213050. Same as r5

***Conclusion:*** Agreed

[S1-213051](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213051.zip) from OPPO: ***Adding annex for AMMT*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #553 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920037))

***Summary:*** Adding annex introducing AI/ML model transfer (AMMT) use cases to TS 22.261 reflecting the study outputs from TR 22.876.

***Discussion:*** Rev1: more time asked for by several companies. For Nokia and Ericsson, this is not needed.

***Conclusion:*** Noted

[S1-213144](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213144.zip) from Apple: ***Distinguishing UE traffic for AI/ML data transfer communications*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #570 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920030))

***Summary:*** The CR adds a new requirement to enable UE AI/ML data transfer traffic that is used for purposes not related to the user-triggered communications to be differentiated.

***Discussion:*** R1: Alignment needed with other threads.

x and/or y can be rewritten as "either x or y or both".

R3: it now states " The 5G core network shall support collection of charging information based on whether the usage is for AI/ML data"

6 companies support such a CR

3 companies (Intel, Ericsson and Futurewei) think it is not needed because already covered elsewhere

***Conclusion:*** Noted

## 7.5 5GET

### 7.5.1 FS\_ 5GET: Study on Services with Extra-territorial 5G systems [SP-191042]

[S1-213132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213132.zip) from Samsung, TNO, Thales: ***Exclusion Areas Considerations for Extraterritorial Communications*** (pCR)

***Summary:*** The discussion of Exclusion Areas at SA1 94e made progress. This P-CR proposes further advances for the topic towards conclusions.

It adds the requirement that "3GPP network shall be able to restrict radio operations (both terrestrial and non-terrestrial) in a specific geographical area".

***Discussion:*** KPN supports.

***Conclusion:*** Agreed

[S1-213133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213133.zip) from Samsung for SA1: ***[DRAFT] LS to ICAO (cc SA) on Non-territorial emergency or distress call*** (LS out)

***Summary:*** This draft LS requests information from the ICAO on how to handle emergency calls by aircraft passengers.

***Discussion:*** there is a rule in 3GPP that WGs and even TSGs cannot send LSs to ITU-R (or other UN bodies) when they are considered 'sensitive.' For Samsung, this LS is not 'sensitive'.

***Conclusion:*** Revised to S1-213210

[S1-213210](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213210.zip) from 3GPP TSG SA WG1: ***LS to ICAO (cc 3GPP TSG SA) on LS on Non-territorial emergency or distress call*** (LS out)

***Summary:*** To be sent to SA who will send it outside.

***Discussion:*** Revision of S1-213133. No presentation

***Conclusion:*** Agreed

[S1-213240](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213240.zip) from Rapporteur (Thales): ***Cover sheet of the TR22.926*** (TS or TR cover)

***Discussion:*** TR cover sheet for information

***Conclusion:*** Agreed

[S1-213241](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213241.zip) from Rapporteur (Thales): ***TR22.926v0.5. to include agreements at this meeting*** (draft TR)

***Discussion:*** First draft by Mon 6th 23:00 UTC Comments till Tue 7th 23:00UTC Final version by Wed 8th 23:00UTC

***Conclusion:*** Agreed

## 7.6 OffNetRail

### 7.6.1 FS\_OffNetRail: Study on Off-Network for Rail [SP-200572]

[S1-213025](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213025.zip) from Korea Railroad Research Institute (KRRI): ***Updates to Virtual coupling use case*** (pCR)

***Discussion:*** r3 approval day (o: Qualcomm)

r5: about "Note: this table is intended to be included in Section 6.2.2.2 of TS 22.289 [2]" : this is not the correct way to propose changes to another document. This will be worked offline by the rapporteur and the author.

Qualcomm has issue about repeating statements which are said to be already in 22.289 (about [PR 5.8.6.2-3/4/5]).

For UIC, these questions were already asked and answered during the meeting, it is not fair to ask them again on the last day.

Last 2 requirements are FFS

Rel6 agreed

***Conclusion:*** Revised to S1-213292

[S1-213292](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213292.zip) from Korea Railroad Research Institute (KRRI): ***Updates to Virtual coupling use case*** (other)

***Discussion:*** Revision of S1-213025. Same as 3025r6

***Conclusion:*** Agreed

[S1-213076](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213076.zip) from Korea Railroad Research Institute (KRRI): ***AUpdates to Autonomous train control and operation use case*** (pCR)

***Discussion:*** r6 agreed

***Conclusion:*** Revised to S1-213293

[S1-213293](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213293.zip) from Korea Railroad Research Institute (KRRI): ***Updates to Autonomous train control and operation use case*** (other)

***Discussion:*** Revision of S1-213076. Same as 3076r6

***Conclusion:*** Agreed

[S1-213122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213122.zip) from UIC: ***Updates to Conclusion and Recommendations clause*** (pCR)

***Summary:*** This contribution proposes conclusion and recommendations as suggested way forward for Rail Off-Network TR 22.990.

***Discussion:*** r1 approval day (o: Qualcomm)

R2: changes for Qualcomm accepted. R2 Agreed

It is explained that the TR is more or less complete for Rel-18 but might be further progressed in Rel-19, under a new SID.

***Conclusion:*** Revised to S1-213294

[S1-213294](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213294.zip) from UIC: ***Updates to Conclusion and Recommendations clause*** (other)

***Discussion:*** Revision of S1-213122. Same as 3122r2

***Conclusion:*** Agreed

[S1-213248](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213248.zip) from Rapporteur (UIC): ***Coverpage for 22.990 for information*** (TS or TR cover)

***Discussion:*** First draft by Mon 6th 23:00 UTC Comments till Tue 7th 23:00UTC Final version by Wed 8th 23:00UTC

***Conclusion:*** Agreed

[S1-213242](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213242.zip) from Rapporteur (UIC): ***TR22.990v0.4. to include agreements at this meeting*** (draft TR)

***Discussion:*** First draft by Mon 6th 23:00 UTC Comments till Tue 7th 23:00UTC Final version by Wed 8th 23:00UTC

***Conclusion:*** Agreed

## 7.7 SEI

### 7.7.1 FS\_5GSEI: Study on 5G Smart Energy and Infrastructure [SP-200574]

[S1-213035](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213035.zip) from Huawei, China Telecom, CEPRI: ***Update Consolidated PR in Section 7*** (CR to [22.867](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #16 cat B v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_5GSEI](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038))

***Summary:*** This CR:

- merges [PR 5.16.6-1] into [CPR 013];

- merges [PR 5.16.6-2] into [CPR 014];

- adds a new [CPR 019] based on [PR 5.16.6-3].

***Discussion:*** The CoverPage shows rev1 when it is rev0.

Samsung informs that a pCR might have an impact.

Vodafone disagrees with the some potential requirements in TR 22.867, section 5.13.6. Nevertheless, Vodafone can accept that those requirements, in S1-213203, are properly discussed and reworded/modified for inclusion as normative text, considering as well the TS clause where they should be placed.

Rev1: agreed (just CR rev counter is to be set to 0).

***Conclusion:*** Revised to S1-213295

[S1-213295](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213295.zip) from Huawei, China Telecom, CEPRI: ***Update Consolidated PR in Section 7*** (CR to 22.867 #16r1 cat B v.18..1, Rel-18, WID: FS\_5GSEI)

***Discussion:*** Revision of S1-213035. Same 3035r1

***Conclusion:*** Agreed

### 7.7.2 SEI: Smart Energy and Infrastructure [SP-210523]

[S1-213041](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213041.zip) from Samsung, ZTE: ***Normative specification for SEI requirements*** (discussion)

***Summary:*** Abstract of the contribution: This discussion paper proposes how to proceed with normative specification of manageability related requirements in the agreed consolidated requirements of TR 22.867 after SA1 94bis.

***Conclusion:*** Revised to S1-213121

[S1-213121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213121.zip) from Samsung, ZTE: ***Normative specification for SEI requirements*** (discussion)

***Summary:*** First submitted at a previous meeting as tdoc S1-213041

This discussion paper proposes how to proceed with normative specification of manageability related requirements in the agreed consolidated requirements of TR 22.867 after SA1 94bis.

***Discussion:*** Revision of S1-213041.

***Conclusion:*** Noted

[S1-213110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213110.zip) from Samsung, EUTC, China Telecom, ZTE, Vodafone: ***Introduction of Smart Energy Infrastructure Requirements*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #81 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007))

***Summary:*** New references are added.  
A few minor clean up changes are made to existing references (to remove curly double quotes, and add a period at the end of the reference.  
A new clause is added to 22.104 to capture smart energy requirements.

***Discussion:*** Where X or Y must be implemented, use numbers better

To be revised to retain only the 3rd change.Other changes in 3202.

Rev2: More supporting companies to be added.

Siemens ask for more time to review.

Pre-agreed.

Rev3: more supporting company

Rev4 pre-agreed

***Conclusion:*** Revised to S1-213296

[S1-213296](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213296.zip) from Samsung, EUTC, China Telecom, ZTE, Vodafone, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix: ***Introduction of Smart Energy Infrastructure Requirements*** (CR to 22.104 #78r1 cat B v.18.1., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213110. Same as 3110r5

***Conclusion:*** Agreed

[S1-213202](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213202.zip) from Samsung, China Telecom, ZTE: ***Inclusion of Smart Energy Infrastructure Requirements*** (CR to 22.104 #87r1 cat B v.18.1., Rel-18, WID: SEI)

***Summary:*** Contains the 1st and 2nd change of [S1-213110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213110.zip)

***Discussion:*** Rev1: Siemens ask for more time to review.

Pre-agreed.

About "less than 5ms or 10m": the criteria is the type of power line. This is explained in the use case. The requirement shall be self-explanatory, though. So this needs to be revised.

Rev6: more supporting companies, Note added to clarify some points.

Qualcomm: they prefer "should" to "shall"

***Conclusion:*** Revised to S1-213297

[S1-213297](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213297.zip) from Samsung, China Telecom, ZTE, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix: ***Inclusion of Smart Energy Infrastructure Requirements*** (CR to 22.104 #87r1 cat B v.18.1., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213202. Same as 3202r7

***Conclusion:*** Agreed

[S1-213040](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213040.zip) from ZTE, China Telecom, CEPRI, Samsung: ***Annex for smart grid*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #80 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007))

***Summary:*** The new smart grid use cases and requirements are added to TS22.104 Annex A.4 to share reference and background of smart energy performance requirements.

***Discussion:*** Problems with the verbal style (that can be corrected later) and with the document styles, which seem to be corrupted.

Rev3: In Table A.4.4.2-1, the text for "# of UEs" seem to be corrupted (or it is not nice presentation), comments to be removed

***Conclusion:*** Revised to S1-213298

[S1-213298](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213298.zip) from ZTE, China Telecom, CEPRI, Samsung: ***Annex for smart grid*** (CR to 22.104 #80r1 cat B v.18.1., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213040. Same as 3040r7

***Conclusion:*** Agreed

[S1-213115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213115.zip) from China Telecom, ZTE, CEPRI, Samsung, EUTC: ***Introduction of SEI KPIs*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #82 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007))

***Summary:*** The new KPI tables are added to existed clauses in TS22.104 to capture smart energy performance requirements.

***Discussion:*** Check formats in the text

Same problems as 3040 on styles.

Rev5: comments to be removed, blank page to be deleted

Rev6 agreed

***Conclusion:*** Revised to S1-213299

[S1-213299](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213299.zip) from China Telecom, ZTE, CEPRI, Samsung: ***Introduction of SEI KPIs*** (CR to 22.104 #82r1 cat B v.18.1., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213115. Same as 3115r6

***Conclusion:*** Agreed

[S1-213117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213117.zip) from Siemens: ***Adjusting scope clause in TS 22.104 to the specification s content*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #83 cat D v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SEI](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920032))

***Summary:*** Clause one in TS 22.104 is reworded so that it reflects the true scope of this specification.

***Discussion:*** Minor typos to be corrected, terminology to be aligned with other docs.

Rev1: rev on rev to be removed

Rev2 agreed

***Conclusion:*** Revised to S1-213300

[S1-213300](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213300.zip) from Siemens: ***Adjusting scope clause in TS 22.104 to the specification s content*** (CR to 22.104 #83r1 cat D v.18.1., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213117. Same 3117r2

***Conclusion:*** Agreed

[S1-213048](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213048.zip) from China Telecom, CEPRI-China, China Southern Power Grid, ZTE, Huawei: ***Introduce of Smart Grid service*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #550 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Summary:*** Add a new clause to introduce SEI in a clause 6.35(new) to capture the SEI related requirements are added to diverse clauses in 22.261 and 22.104

***Discussion:*** 8 companies including Siemens support not to have a new section on smart grid, when 3 companies support having a separate section (ZTE, Huawei, CATT).

Rev2: rev on rev, highlight to be removed, rev on the cover page

Nokia: " very high" is unclear. "high" is good enough. " Smart Grid Service" to be changed in " Smart Grid".

***Conclusion:*** Revised to S1-213301

[S1-213301](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213301.zip) from China Telecom, CEPRI-China, China Southern Power Grid, ZTE, Huawei, Samsung, China Mobile, China Unicom, CATT: ***Introduce of Smart Grid service*** (CR to 22.261 #550r1 cat B v.18.3., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213048. Same as 3048r3

***Conclusion:*** Agreed

[S1-213113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213113.zip) from Samsung, EUTC, China Telecom, ZTE, Vodafone: ***Introduction of Smart Energy Infrastructure Requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #562 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Summary:*** Requirements are added to diverse clauses in 22.261.

***Discussion:*** To be revised to retain only the 1st, 3rd, most of 4th and 5th changes. Other changes in 3203.

Rev7: more supporting companies to be added.

Rev8 pre-agreed.

***Conclusion:*** Revised to S1-213302

[S1-213302](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213302.zip) from Samsung, EUTC, China Telecom, ZTE, Vodafone, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix: ***Introduction of Smart Energy Infrastructure Requirements*** (CR to 22.261 #547r1 cat B v.18.3., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213113. Same as 3113r8

***Conclusion:*** Agreed

[S1-213203](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213203.zip) from Samsung, China Telecom, ZTE: ***Inclusion of Smart Energy Infrastructure Requirements*** (CR to 22.261 #577 cat B v.18.3., Rel-18, WID: SEI)

***Summary:*** Contains the 2nd and some of the 4th and 5th changes of S1-213113

***Discussion:*** Rev5: some terminology (e.g. "service bitrate") still has to be aligned, but this can be done as a global exercice at a future meeting.

Pre-agreed

***Conclusion:*** Revised to S1-213303

[S1-213303](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213303.zip) from Samsung, China Telecom, ZTE, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix: ***Inclusion of Smart Energy Infrastructure Requirements*** (CR to 22.261 #577r1 cat B v.18.3., Rel-18, WID: SEI)

***Discussion:*** Revision of S1-213203. Same as 3203r6

***Conclusion:*** Agreed

[S1-213118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213118.zip) from Samsung, EUTC, China Telecom, Vodafone: ***Addition of requirements for Confidentiality in 5GS*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #565 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Summary:*** To add requirements on confidentiality and replay protection for communication with an application server to the 5GS.

***Discussion:*** No rev, no discussion

Pre-agreed

***Conclusion:*** Agreed

[S1-213037](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213037.zip) from Samsung, EUTC, China Telecom, ZTE, Vodafone: ***Introduction of Smart Energy Infrastructure Requirements*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #78 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007))

***Summary:*** A new clause is added to 22.104 to capture smart energy requirements.

***Conclusion:*** Withdrawn

[S1-213038](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213038.zip) from Samsung, EUTC, China Telecom, ZTE, Vodafone: ***Introduction of Smart Energy Infrastructure Requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #547 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Summary:*** Requirements are added to diverse clauses in 22.261

***Conclusion:*** Withdrawn

[S1-213039](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213039.zip) from China Telecom, ZTE, CEPRI, Samsung, EUTC: ***Introduction of SEI KPIs*** (CR to [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) #79 cat B v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007))

***Summary:*** The new references are added.  
The new KPI tables are added to existed clauses in TS22.104.

***Conclusion:*** Withdrawn

[S1-213042](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213042.zip) from Samsung, EUTC, China Telecom, Vodafone: ***Addition of requirements for Confidentiality in 5GS*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #548 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005))

***Summary:*** To add requirements on confidentiality and replay protection for communication with an application server to the 5GS

***Conclusion:*** Withdrawn

## 7.8 PIRates

### 7.8.1 FS\_Resident: Study on Enhancements for Residential 5G [SP-200576]

[S1-213172](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213172.zip) from Philips International B.V.: ***Update definition of non-3GPP device*** (CR to [22.858](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #26 cat F v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_Resident](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040))

***Discussion:*** FS\_PIN: Study on Personal IoT Networks [SP-200592]

***Conclusion:*** Noted

### 7.8.2 FS\_PIN: Study on Personal IoT Networks [SP-200592]

[S1-213018](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213018.zip) from vivo Mobile Com. (Chongqing): ***Consolidated requirements - discovery additions*** (CR to [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #15 cat B v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041))

***Summary:*** Inclusions of PRs from [S1-212129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-212129.zip)

***Conclusion:*** Noted

[S1-213095](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213095.zip) from Xiaomi: ***Discussion for proposal on consolidated requirements of direct*** (discussion)

***Conclusion:*** Noted

[S1-213093](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213093.zip) from Xiaomi: ***Proposal on consolidated requirements of direct communications for FS\_PIN*** (CR to [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #16 cat B v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041))

***Conclusion:*** Noted

[S1-213151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213151.zip) from InterDigital: ***Requirements on PIN element discovery restriction*** (CR to [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #1r2 cat B v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041))

***Discussion:*** Revision of agreed SA1#94bis-e S1-212129 r2 agreed

***Conclusion:*** Revised to S1-213304

[S1-213304](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213304.zip) from InterDigital: ***Requirements on PIN element discovery restriction*** (CR to 22.859 #1r3 cat B v.18..1, Rel-18, WID: FS\_PIN)

***Discussion:*** Revision of S1-213151. Same as 3151r2

***Conclusion:*** Agreed

[S1-213152](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213152.zip) from InterDigital: ***Addition of consolidated requirements for use case on PIN element discovery restriction*** (CR to [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #17 cat B v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041))

***Discussion:*** r2 agreed

***Conclusion:*** Revised to S1-213305

[S1-213305](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213305.zip) from InterDigital: ***Addition of consolidated requirements for use case on PIN element discovery restriction*** (CR to 22.859 #17r1 cat B v.18..1, Rel-18, WID: FS\_PIN)

***Discussion:*** Revision of S1-213152. Same as 3152r2

***Conclusion:*** Agreed

[S1-213156](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213156.zip) from Philips International B.V.: ***UE requesting to be added to a PIN*** (CR to [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #18 cat B v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041))

***Discussion:*** R1 agreed

***Conclusion:*** Revised to S1-213306

[S1-213306](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213306.zip) from Philips International B.V.: ***UE requesting to be added to a PIN*** (CR to 22.859 #18r1 cat B v.18..1, Rel-18, WID: FS\_PIN)

***Discussion:*** Revision of S1-213156. Same as 3156r1

***Conclusion:*** Agreed

### 7.8.3 PIRates: Personal IoT and Residential networks Service Requirements [S1-212148]

[S1-213012](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213012.zip) from KPN: ***5G LAN related rquirements from FS\_Resident*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #533 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** This CR adds consolidated potential requirements from 22.858 related to 5G LAN to the 5G LAN-type service requirements in 22.261 clause 6.26

***Discussion:*** R2 pre-agreed

***Conclusion:*** Revised to S1-213307

[S1-213307](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213307.zip) from KPN: ***5G LAN related rquirements from FS\_Resident*** (CR to 22.261 #533r1 cat B v.18.3., Rel-18, WID: Pirates)

***Discussion:*** Revision of S1-213012. Same as 3012r2

***Conclusion:*** Agreed

[S1-213013](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213013.zip) from KPN: ***Application Server related requirements from FS\_Resident*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #534 cat C v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** This CR adds new bullets to existing requirements in 22.261 as per the FS\_Resident consolidated requirements.

***Discussion:*** Pre-agreed

***Conclusion:*** Agreed

[S1-213019](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213019.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates definitions and abbreviations*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #535 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** This CR adds the definitions and abbreviations from the FS\_Resindent and FS\_PIN studies. The plan is to use these smaller CRs for discussions during the meeting and then (potentially) merge them into one or more larger CRs.

***Discussion:*** Rev4: no consensus on " non-3GPP device".

This is agreed to be removed. Note numberring to be corrected to the usual format.

Rev5: note numbering has to be changed again.

Rev6: pre-agreed

***Conclusion:*** Revised to S1-213308

[S1-213308](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213308.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates definitions and abbreviations*** (CR to 22.261 #535r1 cat B v.18.3., Rel-18, WID: Pirates)

***Discussion:*** Revision of S1-213019. 3019r6 agreed

***Conclusion:*** Agreed

[S1-213020](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213020.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates general introduction*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #536 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** The CR adds introduction text on Personal IoT Networks and Customer Premises Networks

***Discussion:*** Rev3: Change Introduction to description

***Conclusion:*** Revised to S1-213309

[S1-213309](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213309.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates general introduction*** (CR to 22.261 #536r1 cat B v.18.3., Rel-18, WID: Pirates)

***Discussion:*** Revision of S1-213020. Same as 3020r6

***Conclusion:*** Agreed

[S1-213021](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213021.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates Overview of Customer Premises Networks*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #537 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Discussion:*** r1

***Conclusion:*** Merge into 3020r4

[S1-213022](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213022.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates overview of PIN*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #538 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Conclusion:*** Merge into 3020r4

[S1-213023](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213023.zip) from KPN, vivo Mobile Communications Co. LTD: ***Pirates requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #539 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** The CR adds requirements on Personal IoT Networks and Customer Premises Networks.

***Discussion:*** Rev4: still not stable, in particular with PIN references

Rev5: minor additions needed

***Conclusion:*** Revised to S1-213310

[S1-213310](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213310.zip) from KPN, vivo Mobile Communications Co. LTD, Nokia, Nokia Shanghai Bell, InterDigital: ***Pirates requirements*** (CR to 22.261 #539r1 cat B v.18.3., Rel-18, WID: Pirates)

***Discussion:*** Revision of S1-213023. Same as 3023r6

***Conclusion:*** Agreed

[S1-213153](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213153.zip) from InterDigital: ***Addition of consolidated requirements for use case on PIN element discovery restriction*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #573 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Conclusion:*** Merge into 3023r3

[S1-213024](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213024.zip) from KPN, vivo Mobile Communications Co. LTD: ***CPN and PIN definitions, introduction and requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #540 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** This CR is reserved to (potentially) serve as an overall consolidated CR combining the different sections. It is not proposed to use this CR for discussion, but (possibly) as a consolidated overall result.

***Discussion:*** It was wondered if this CR was needed at all.

***Conclusion:*** Noted

## 7.9 PALS

### 7.9.1 FS\_PALS: Study on 5G Networks Providing Access to Localized Services [SP-200799]

[S1-213069](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213069.zip) from Qualcomm, Interdigital: ***Updating PALS Consolidated Potential Requirements*** (CR to [22.844](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #3r2 cat F v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023))

Summary: .

This CR corrects 2150 agreed at SA1#94bis, but which had issues.

***Discussion:*** Wrong category.

Rev1: what looks like "changes on changes" is actually deletion of underlined text.

***Conclusion:*** Revised to S1-213204

[S1-213204](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213204.zip) from Qualcomm, Interdigital: ***Updating PALS Consolidated Potential Requirements*** (CR to 22.844 #3r3 cat F v.18..1, Rel-18, WID: FS\_PALS)

***Summary:*** Replaces S1-213069

***Discussion:*** Revised to include the changes proposed in 3071r2.

***Conclusion:*** Revised to S1-213205

[S1-213205](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213205.zip) from Qualcomm, Interdigital, Kyonggi University: ***Updating PALS Consolidated Potential Requirements*** (CR to 22.844 #3r4 cat F v.18..1, Rel-18, WID: FS\_PALS)

***Summary:*** Replaces S1-213204

***Discussion:*** Introducing the new requirements from 3071r2.

Rev2: still some editorial comments to be corrected (e.g. wrong numbering of Notes).

Samsung to be added as Source.

Rev3 pre-agreed.

Rev8: more supporting companies. About CPR 6.4-010, " Per the pre-defined agreement between the user and service provider," to be deleted.

Rev9: agreed

***Conclusion:*** Revised to S1-213311

[S1-213311](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213311.zip) from Qualcomm, InterDigital, Kyonggi University, Samsung, Charter Communications, Futurewei, Ericsson, Intel: ***Updating PALS Consolidated Potential Requirements*** (CR to 22.844 #3r4 cat F v.18..1, Rel-18, WID: FS\_PALS)

***Discussion:*** Revision of S1-213205. Same as 3205r6

***Conclusion:*** Agreed

[S1-213071](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213071.zip) from Qualcomm, Kyonggi University: ***Additional FS\_PALS Consolidated Requirements*** (CR to [22.844](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #7 cat C v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023))

***Discussion:*** 3071r2: technically endorsed (except for the comments on the cover page to be deleted).

Merged with 3204 into 3205.

***Conclusion:*** Merge into 3205

[S1-213072](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213072.zip) from QUALCOMM: ***FS\_PALS TR Cleanup*** (CR to [22.844](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #8 cat F v.18..1, [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023))

***Discussion:*** r1 agreed

***Conclusion:*** Revised to S1-213312

[S1-213312](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213312.zip) from QUALCOMM: ***FS\_PALS TR Cleanup*** (CR to 22.844 #8r1 cat F v.18..1, Rel-18, WID: FS\_PALS)

***Discussion:*** Revision of S1-213072 Same as 3072r1

***Conclusion:*** Agreed

### 7.9.2 PALS: 5G Networks Providing Access to Localized Services [SP-210588]

[S1-213074](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213074.zip) from Qualcomm, Kyonggi University: ***Introducing PALS Normative Requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #560 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920031))

***Discussion:*** Rev9: changes of 3071r8 to be introduced also here. InterDigital, Futurwei to be added as source. Changes on changes. Horizontal spacing to be checked.

Rev10 agreed.

***Conclusion:*** Revised to S1-213313

[S1-213313](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213313.zip) from Qualcomm, Kyonggi University, Samsung, InterDigital, Futurewei, Charter Communications, Ericsson, Intel: ***Introducing PALS Normative Requirements*** (CR to 22.261 #560r1 cat B v.18.3., Rel-18, WID: PALS)

***Discussion:*** Revision of S1-213074. Same as 3074r10

***Conclusion:*** Agreed

## 7.10 VMR

### 7.10.1 FS\_VMR: Study on vehicle-mounted relays [SP-200798]

[S1-213092](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213092.zip) from Xiaomi: ***Updated FS\_VMR consolidated requirements*** (pCR)

***Summary:*** This document includes proposed changes to the consolidated requirements in TR 22.839 (v1.1.) by adding extra requirements and examples

***Discussion:*** Rev3: changes on changes

Rev4 agreed.

***Conclusion:*** Revised to S1-213314

[S1-213314](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213314.zip) from Xiaomi: ***Updated FS\_VMR consolidated requirements*** (other)

***Discussion:*** Revision of S1-213092. Same as 3092r4

***Conclusion:*** Agreed

[S1-213134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213134.zip) from Qualcomm, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, Firstnet, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI: ***Removing ENs from consolidated requirements*** (pCR)

***Summary:*** This document includes a pCR proposal to remove Editor’s notes/FFS from the consolidated potential requirements in latest TR 22.839 (v1.1.).

***Discussion:*** CPR006 to be changed to " Subject to regulatory requirements and based on operator policy, the 5G system shall support means to configure and expose monitoring information of a mobile base station relay to an MNO’s authorized third-party."

Rev1 agreed.

***Conclusion:*** Revised to S1-213315

[S1-213315](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213315.zip) from Qualcomm, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility,: ***Removing ENs from consolidated requirements*** (other)

***Discussion:*** Revision of S1-213134. Same as 3134r1

***Conclusion:*** Agreed

[S1-213135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213135.zip) from Qualcomm: ***Updates to FS\_VMR consolidated requirements*** (pCR)

***Conclusion:*** Agreed

[S1-213136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213136.zip) from Qualcomm: ***FS\_VMR TR clean-up: resolving remaining Editor notes*** (pCR)

***Conclusion:*** Agreed

[S1-213143](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213143.zip) from Samsung, FirstNet, Police of the Netherlands, UIC, CATT, Qualcomm: ***22.839 P-CR: Satellite support for vehicular mobile relays*** (pCR)

***Summary:*** During work in SA1 94bis concern was expressed about the requirement for satellite support vehicular mobile relays. This P-CR seeks to allay those concerns and reintroduce the requirement as a consolidated requirement in TR 22.839.

***Discussion:*** Rev9 presented: converging but not fully stable.

Rev10: more supporting companies added. The second NOTE 5 should be NOTE 6.

Rev11: agreed.

***Conclusion:*** Revised to S1-213316

[S1-213316](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213316.zip) from Samsung, FirstNet, Police of the Netherlands, UIC, CATT, Qualcomm, Thales,: ***22.839 P-CR: Satellite support for vehicular mobile relays*** (other)

***Discussion:*** Revision of S1-213143. Same as 3143r11

***Conclusion:*** Agreed

[S1-213154](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213154.zip) from Samsung, FirstNet, Police of the Netherlands, UIC, Qualcomm, EUTC: ***22.839 P-CR: Coverage Extension Consolidated Requirement*** (pCR)

***Summary:*** During work in SA1 94bis concern was expressed about the requirement for support of coverage extension by means of vehicular mobile relays. This P-CR seeks to allay those concerns and reintroduce the requirement as a consolidated requirement in TR 22.839.

***Discussion:*** Rev1: typos to correct.

Rev2 agreed.

***Conclusion:*** Revised to S1-213317

[S1-213317](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213317.zip) from Samsung, FirstNet, Police of the Netherlands, UIC, Qualcomm, EUTC: ***22.839 P-CR: Coverage Extension Consolidated Requirement*** (other)

***Discussion:*** Revision of S1-213154. Same as 3154r2

***Conclusion:*** Agreed

### 7.10.2 VMR: vehicle-mounted relays [WID not yet approved]

[S1-213139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213139.zip) from Qualcomm, Firstnet, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI: ***Introduction of VMR requirements*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #568 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** This CR adds a new section capturing service requirements on mobile base station relays, based on the latest consolidated potential requirements in TR 22.839.

***Discussion:*** WID needs to be agreed.

Rev2: changes on changes, xx to be replaced by numbers. change 'Introduction' to 'Description' in the first subclause. Note 4: relay->relay(s). 5G System -> 5G system. Few -> A few

Rev3: agreed then changed for the title of section "Introduction".

Rev4: agreed

***Conclusion:*** Revised to S1-213318

[S1-213318](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213318.zip) from Qualcomm, Firstnet, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI, Samsung: ***Introduction of VMR requirements*** (CR to 22.261 #568r1 cat B v.18.3., Rel-18, WID: VMR)

***Discussion:*** Revision of S1-213139. Same as 3139r4

***Conclusion:*** Agreed

### 7.10.3 FS\_VMR ouput

[S1-213137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213137.zip) from Qualcomm: ***TR cover sheet*** (TS or TR cover)

***Summary:*** TR submitted for approval.

***Discussion:*** TR cover sheet for approval

***Conclusion:*** Agreed

[S1-213200](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213200.zip) from Rapporteur (Qualcomm): ***TR22.839 v1.2. to include agreements at this meeting*** (draft TR)

***Discussion:*** First draft by Mon 6th 23:00 UTC Comments till Tue 7th 23:00UTC Final version by Wed 8th 23:00UTC

***Conclusion:*** Agreed

## 7.11 eFRMCS

### 7.11.1 FS\_eFRMCS: Study on FRMCS Evolution [SP-201038]

[S1-213123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213123.zip) from UIC: ***Changes to Critical Support Applications Inviting-a-FRMCS User to a voice communication use case to support Interworking with GSM-R*** (CR to [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) #4 cat C v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026))

***Summary:*** Changes to Critical Support Applications “Inviting-a-FRMCS User to a voice communication” use case to support Interworking with GSM-R.

***Discussion:*** r1 pre-agreed

***Conclusion:*** Revised to S1-213319

[S1-213319](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213319.zip) from UIC: ***Changes to Critical Support Applications Inviting-a-FRMCS User to a voice communication use case to support Interworking with GSM-R*** (CR to 22.989 #4r1 cat C v.18.1., Rel-18, WID: FS\_eFRMCS)

***Discussion:*** Revision of S1-213123. Same 3123r2

***Conclusion:*** Agreed

[S1-213127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213127.zip) from UIC: ***Changes to Critical Support Applications Multiuser talker control use case to support configurable initial talker permission*** (CR to [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) #6 cat C v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026))

***Discussion:*** r1 pre-agreed

***Conclusion:*** Revised to S1-213320

[S1-213320](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213320.zip) from UIC: ***Changes to Critical Support Applications Multiuser talker control use case to support configurable initial talker permission*** (CR to 22.989 #6r1 cat C v.18.1., Rel-18, WID: FS\_eFRMCS)

***Discussion:*** Revision of S1-213127. Same as 3127r1

***Conclusion:*** Agreed

[S1-213126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213126.zip) from Union Inter. Chemins de Fer: ***Changes to System Principle “Interworking between GSM-R and FRMCS” to reflect latest user requirements*** (CR to [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) #5 cat C v.18.1., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026))

***Conclusion:*** Withdrawn

[S1-213128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213128.zip) from Union Inter. Chemins de Fer: ***Enabling/Disabling communication privileges of users (autorisation of applications)*** ( CR)

***Conclusion:*** Withdrawn

## 7.12 TACMM

### 7.12.1 FS\_TACMM: Study on supporting tactile and multi-modality communication services [SP-201039]

[S1-213063](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213063.zip) from vivo: ***Correction of editorial issues*** (pCR)

***Summary:*** A set of editorial corrections is proposed.

***Conclusion:*** Agreed

[S1-213062](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213062.zip) from vivo: ***Clarification on the handling of non publicly available references*** (pCR)

***Discussion:*** r01 pre-agreed

***Conclusion:*** Revised to S1-213321

[S1-213321](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213321.zip) from vivo: ***Clarification on the handling of non publicly available references*** (other)

***Discussion:*** Revision of S1-213062. Same as 3062r01

***Conclusion:*** Agreed

[S1-213052](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213052.zip) from Huawei: ***Discussion on KPI table format*** (discussion)

***Summary:*** It is proposed to adopt the KPI table format in TS 22.261 clause 7.6.1 “AR/VR” (i.e. table 7.6.1-1) as a baseline for the KPI requirements in TR 22.847.

***Discussion:*** Some companies think that an alignment is not needed.

Discussions to continue off-line.

***Conclusion:*** Noted

[S1-213053](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213053.zip) from Huawei: ***Discussion on synchronisation thresholds*** (discussion)

***Conclusion:*** Noted

[S1-213100](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213100.zip) from InterDigital: ***FS\_TACMM: Update on definition of Multi-modality Data*** (pCR)

***Summary:*** This paper provides an update to the definition of Multi-modality Data.

***Discussion:*** Rev1 agreeable.

***Conclusion:*** Revised to S1-213322

[S1-213322](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213322.zip) from InterDigital: ***FS\_TACMM: Update on definition of Multi-modality Data*** (other)

***Discussion:*** Revision of S1-213100. Same as 3100r1

***Conclusion:*** Agreed

[S1-213125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213125.zip) from China Mobile: ***pCR on updating multi-modality concept*** (pCR)

***Summary:*** Another example is added to the list of typical tactile and multi-modality communication service/application.

***Discussion:*** Qualcomm asked about the global plan for FS\_TACMM, since there is no consolidated requirements nor KPI proposed at this meeting. China Mobile explained that the idea is to have them for the November meeting.

Rev1:there is no support to update the example list.

***Conclusion:*** Noted

[S1-213099](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213099.zip) from InterDigital: ***FS\_TACMM: Improved text on multi-modality input and output*** (pCR)

***Summary:*** This paper provides updated text on wearables and multi-modality input and output.

***Discussion:*** Some enhancements on the text on visibility of Multimodality, including figure 4.2, will be proposed in the next revision. The source of the figure has to be retrieved as to edit it.

For Qualcomm, "emotion" should be replaced by a better word.

Rev4: "affective" replaces "emotional". "guid"->"guide". Change on the examples to be removed.

Rev5 agreed.

***Conclusion:*** Revised to S1-213323

[S1-213323](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213323.zip) from InterDigital: ***FS\_TACMM: Improved text on multi-modality input and output*** (other)

***Discussion:*** Revision of S1-213099. Same as 3099r5

***Conclusion:*** Agreed

[S1-213054](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213054.zip) from Huawei: ***pCR to update clause 5.1*** (pCR)

***Summary:*** This document proposes the text proposal to TR 22.847 based on the proposals on synchronisation thresholds and KPI formats.

***Discussion:*** Rev1 presented. It includes:

R1 includes the following changes:

- definitions of the terms used in the table header;

- added a note to provide more information on the service area

- added the aspect of synchronization thresholds that is applicable to this use case.

Qualcomm and LGE have an unsolved concern on the Synchronisation threshold.

Nokia need more time to analyse some aspects, like country-wide synchronisation issues.

companies who would like to introduce the synchronisation threshold def:

Now: 9 companies (Huawei, KPN, etc).

Later: 2 companies (QC, LGE).

So the conclusion is to introduce it now, with some refinements possible.

The chair also encourages to solve the Note 3 in the table (about "country-wide").

Rev5: last 2 reats FFS, service area is FFS.

Rev6: agreed.

***Conclusion:*** Revised to S1-213324

[S1-213324](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213324.zip) from Huawei: ***pCR to update clause 5.1*** (other)

***Discussion:*** Revision of S1-213054. Same as 3054r6

***Conclusion:*** Agreed

[S1-213064](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213064.zip) from vivo: ***Usecase 5.5 Update: Addition of multi-path*** (pCR)

***Summary:*** 2 non publically available references are proposed to be removed.

***Discussion:*** It is proposed to directly remove them rather than having a warning to tell they might be removed.

Samsung clarified that they are going to be available very soon.

Rev01: new changes in 5.5.5.

LGE has a general concern.

UIC, Nokia and Futurwei have concerns with PR 5.5.6-2, on the meaning.

***Conclusion:*** Revised to S1-213325

[S1-213325](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213325.zip) from vivo: ***Usecase 5.5 Update: Addition of multi-path*** (other)

***Discussion:*** Revision of S1-213064. Same as 3064r03

***Conclusion:*** Agreed

[S1-213098](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213098.zip) from InterDigital: ***FS\_TACMM: Resolving the Editor s Notes on the use case Haptic feedback*** (pCR)

***Discussion:*** Rev2: converging but more changes needed

***Conclusion:*** Revised to S1-213326

[S1-213326](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213326.zip) from InterDigital: ***FS\_TACMM: Resolving the Editor s Notes on the use case Haptic feedback*** (other)

***Discussion:*** Revision of S1-213098. 3098r3

***Conclusion:*** Agreed

[S1-213104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213104.zip) from China Mobile: ***pCR on updating KPI table and requirements of Immersive VR games use case*** (pCR)

***Summary:*** This pCR proposed to update the KPI table and requirements of Immersive VR games use case.

***Discussion:*** Rev1: the "country-wide" term has also to be solved

Rev2: issue with numbering. Some Nokia's comments not included. For Siemens, packet size is missing. For InterDigital, this is replaced by " Service bit rate: user-experienced data rate". More discussions needed.

"countrywide" still appears.

***Conclusion:*** Revised to S1-213327

[S1-213327](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213327.zip) from China Mobile: ***pCR on updating KPI table and requirements of Immersive VR games use case*** (pCR)

***Discussion:*** Revision of S1-213104. Same as 3104r6

***Conclusion:*** Agreed

[S1-213106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213106.zip) from China Mobile: ***pCR on updating KPI table of remote control robot use case*** (pCR)

***Summary:*** his pCR proposed to update the KPI table of remote control robot use case based on the same format.

***Discussion:*** Rev4: converging but same issue on "packet size".

Rev7: "communication" to be changed to "connection", Note in the 2nd table further edited while displaying.

Rev8 agreed

***Conclusion:*** Revised to S1-213328

[S1-213328](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213328.zip) from China Mobile: ***pCR on updating KPI table of remote control robot use case*** (pCR)

***Discussion:*** Revision of S1-213106. Same as 3106r8

***Conclusion:*** Agreed

[S1-213094](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213094.zip) from Xiaomi: ***TACMM New Use Case Handover in Multi-modality Interaction System*** (pCR)

***Summary:*** This document proposes a new uses case on handover in Multi-modality Interaction System and the related requirements, which guarantee a continuous service and increases charging accuracy.

***Discussion:*** Rev3: proposed to add "[PR 5.X.6-3] The 5G system shall be able to assign different priorities to UEs while handover, subject to their importance to a multi-modality service"

***Conclusion:*** Noted

[S1-213107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213107.zip) from China Mobile: ***pCR on Adding use case for remote UAV control through HD video in First*** (pCR)

***Discussion:*** Ericsson see no need for this use case, and there is no support.

***Conclusion:*** Noted

[S1-213103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213103.zip) from China Mobile: ***pCR on consolidated requirements of FS\_TACMM*** (pCR)

***Discussion:*** r6 pre-agreed.

r9: still some concerns on the last day, in particular from Nokia, who like to have more time in between meetings for discussion.

Note that the first part of the document is a list of the debate. The actual proposal is in the 2nd part.

It is proposed to put the text with an editor's note saying that this is FFS, but Nokia prefer not to introduce contradicting material at all.

The 1st one could be acceptable by Nokia.

Noted but final tdoc number needed.

***Conclusion:*** Noted\*\*

[S1-213334](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213334.zip) from China Mobile: ***pCR on consolidated requirements of FS\_TACMM*** (pCR)

***Summary:*** Revision of 3103

***Conclusion:*** Noted

### 7.12.2 FS\_TACMM output

[S1-213243](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213243.zip) from Rapporteur (China Mobile): ***cover sheet of the TR22.847*** (TS or TR cover)

***Discussion:*** Same as 3174r3 Revision of S1-213174.

85% and approval. use-cases complete from rapporteurs point of view. PRs to be to reviewed. Consolidated requirements need to be extracted from the existing use-cases

TR to be sent for one-step approval. About introducing new use cases after approval: this is not "expected" but this cannot be "forbidden" (3GU is contribution and consensus-driven).

***Conclusion:*** Revised to S1-213249

[S1-213249](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213249.zip) from Rapporteur (China Mobile): ***cover sheet of the TR22.847*** (TS or TR cover)

***Conclusion:*** Agreed

[S1-213201](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213201.zip) from Rapporteur (China Mobile): ***TR22.847v0.4. to include agreements at this meeting*** (Draft TR)

***Discussion:*** First draft by Mon 6th 23:00 UTC Comments till Tue 7th 23:00UTC Final version by Wed 8th 23:00UTC

***Conclusion:*** Agreed

## 7.13 SENSE

### 7.13.1 SENSE: Signal level Enhanced Network Selection [SP-210525]

[S1-213044](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213044.zip) from Deutsche Telekom AG: ***SENSE restriction alternatives*** (discussion)

***Summary:*** 2 versions of the text are proposed for the SENSE WID: "For a data-centric or data-only UE, it shall be possible to have an Operator controlled signal threshold per access technology on the USIM to be used for network selection." Or to replace the first part by " For UEs supporting any, or a combination, of NB-IoT, GERAN EC-GSM-IoT [18] and Category M1 or M2 of E-UTRA [17],".

***Discussion:*** A show of hands 27 companes prefer version 1 versus 3 companies (Qc, Apple, Samsung) prefer version 2.On the other hand, no company objects for Version 2. Qualcomm would object to Option 1 as it is, but not if it is slightly modified.

***Conclusion:*** Noted

[S1-213043](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213043.zip) from Deutsche Telekom, Charter Communications, China Telecom, KDDI, KPN, Orange, Telecom Italia, Vodafone, Convida Wireless, Ericsson, IDEMIA, InterDigital, LG Electronics, Philips, Thales, vivo Mobile Communications Co. LTD: ***Signal level Enhanced Network Selection*** (CR to [22.11](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) #322r3 cat B v.17.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SENSE](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033))

***Discussion:*** Rev4: Huawei think it needs to be a real definition based on something concrete.

For Apple, Qualcomm's original proposal in rev2 is the best one.

Rev5: OK but formatting issues.

Rev6 agreed.

***Conclusion:*** Revised to S1-213329

[S1-213329](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213329.zip) from Deutsche Telekom, Charter Communications, China Telecom, KDDI, KPN, Orange, Telecom Italia, Vodafone, Convida Wireless, Ericsson, IDEMIA, InterDigital, LG Electronics, Philips, Thales, vivo Mobile Communications Co. LTD: ***Signal level Enhanced Network Selection*** (CR to 22.11 #322r4 cat B v.17.3., Rel-18, WID: SENSE)

***Discussion:*** Revision of S1-213043. Same 3043r6

***Conclusion:*** Agreed

## 7.14 SCVS

### 7.14.1 SCVS: satellite access to Support Control and/or Video Surveillance [SP-210527]

[S1-213079](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213079.zip) from Xiaomi: ***Update to KPIs to 5G system with satellite access for support control and/or video surveillance*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #519r1 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [SCVS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920034))

***Discussion:*** Some formatting problems.

Samsung would prefer a reference to a set of control standards, e.g. from IEC than text. Not stable in rev1.

Rev6: Samsung supports Qualcomm's request to remove UAV aspects and MAVLINK from the note.

CR rev number not to be incremented.

Rev7: CR rev number not to be incremented.

Rev8 agreed

***Conclusion:*** Revised to S1-213330

[S1-213330](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213330.zip) from Xiaomi: ***Update to KPIs to 5G system with satellite access for support control and/or video surveillance*** (CR to 22.261 #519r2 cat B v.18.3., Rel-18, WID: SCVS)

***Discussion:*** Revision of S1-213079. Same as 3079r8

***Conclusion:*** Agreed

## 7.15 Other Rel18 contributions

[S1-213161](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213161.zip) from Qualcomm Incorporated: ***Proposal on Human readable name for NW slices*** (other)

***Summary:*** Supporting slides to propose to add a new requirement, part of NW slice requirements in 22.261 (sec. 6.1), i.e.

The 5G system shall support mechanisms for the NW to provide UEs with human readable name(s) associated to allowed/not allowed NSSAI(s), to be displayed to the user

***Discussion:*** See corresponding CR in 3162.

***Conclusion:*** Noted

[S1-213162](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213162.zip) from Qualcomm: ***Human readable name for NW slices*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #574 cat C v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [EASNS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=910032))

***Discussion:*** For Deutsche Telkom, there is no interest since the name of the slice is not going to be displayed.

For vivo, the terms " human readable" are too vague.

For KPN, what to display if multiple slices are in use is not clear. Qc answered that this mechanism is intended only for isolated slice.

KPN sees it as a complex new mechanism for little interest. It also has to include behavior for UEs that have multiple slices (eg a smart phone that also is involved in V2X as VRU) and has eMBB and V2X slices.

More discussions needed, also involving Nokia and Samsung.

***Conclusion:*** Noted

# 8 Other technical contribution

[S1-213080](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213080.zip) from Xiaomi: ***Clarification to services provided by 5G system with satellite access*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #520r2 cat F v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=60094))

***Discussion:*** R2?

***Conclusion:*** Noted

[S1-213114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213114.zip) from China Mobile: ***Provide enhanced capability for high priority short message delivery*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #563 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** Wrong WI code

***Conclusion:*** Noted

[S1-213116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213116.zip) from China Mobile: ***Support multiple non-public networks access and corresponding simultaneous services for a UE*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #564 cat B v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047))

***Discussion:*** Wrong WI code,

Rev3: incremented CR Rev for draft docs

changes on changes

Rev4 agreed

***Conclusion:*** Revised to S1-213331

[S1-213331](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213331.zip) from China Mobile: ***Support multiple non-public networks access and corresponding simultaneous services for a UE*** (CR to 22.261 #564r1 cat B v.18.3., Rel-18, WID: TEI18)

***Discussion:*** Revision of S1-213116. Same as 3116r4

***Conclusion:*** Agreed

[S1-213036](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213036.zip) from Lenovo, Motorola Mobility: ***Miscellaneous corrections from CR implementation*** (CR to [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) #546 cat D v.18.3., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [TEI18](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042))

***Discussion:*** Moved from 7.15

***Conclusion:*** Revised to S1-213332

[S1-213332](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213332.zip) from Lenovo, Motorola Mobility: ***Miscellaneous corrections from CR implementation*** (CR to 22.261 #546r1 cat D v.18.3., Rel-18, WID: TEI18)

***Discussion:*** Revision of S1-213036. Same as 3036r2

***Conclusion:*** Agreed

[S1-213075](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213075.zip) from Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon: ***Fallback in 5GS*** (CR to [22.153](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) #50 cat B v.17.2., [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193), WID: [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999))

***Summary:*** Addition of explicit requirements in TS 22.153 for priority treatment when voice fallback is applicable to an MPS call in 5GS.

***Discussion:*** No WI code, mistakes in cover page, wrong release

***Conclusion:*** Revised to S1-213333

[S1-213333](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213333.zip) from Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon: ***Fallback in 5GS*** (CR to 22.153 #50r1 cat B v.17.2., Rel-18, WID: TEI18)

***Discussion:*** Revision of S1-213075. Same as 3075r1

***Conclusion:*** Agreed

# 9 Other non-technical contributions

[S1-213014](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213014.zip) from The MITRE Corporation: ***Discussion of Integration of Non-3GPP Non-Terrestrial Networks into*** (discussion)

***Summary:*** This contribution proposes to analyze the satellite infrastructure as a non-3GPP access opportunity, and which 3GPP standards will need to be modified to fit that model

***Discussion:*** For Thales, it is not clear what are the new service requirements proposed here, and if there is any work requested to SA1.

For Mitre, most of the work will be done by SA2, but there might be some work for SA1 too.

Vivo support opening a thread on this topic.

***Conclusion:*** Noted

[S1-213009](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213009.zip) from SA WG1 Chair: ***Reserved*** (other)

***Conclusion:*** Withdrawn

# 10 Work Item/Study Item progress

## 10.1 Session information outputs

The outputs of each session are reported in the corresponding agenda items.

## 10.2 Work Item/Study Item status update

[S1-213215](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213215.zip) from China Mobile: ***FS\_MMTELin5G Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213216](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213216.zip) from BDBOS: ***FS\_SACI\_MCS Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213217](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213217.zip) from Hansung University: ***FS\_RAILSS Status report*** (Report)

***Summary:*** Not available

***Conclusion:*** Noted

[S1-213218](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213218.zip) from OPPO: ***FS\_AMMT Status report*** (Report)

***Summary:*** 100% complete, some values to be updated on the KPR table

***Conclusion:*** Noted

[S1-213219](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213219.zip) from THALES: ***FS\_5GET Status report*** (Report)

***Summary:*** 80% complete, the plan is to close at next meeting

***Conclusion:*** Noted

[S1-213220](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213220.zip) from UIC: ***FS\_OffNetRail Status report*** (Report)

***Summary:*** 90% complete

***Conclusion:*** Noted

[S1-213221](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213221.zip) from KPN: ***FS\_Resident Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213222](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213222.zip) from Vivo: ***FS\_PIN Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213223](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213223.zip) from Qualcomm: ***FS\_PALS Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213224](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213224.zip) from Qualcomm: ***FS\_VMR Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213225](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213225.zip) from UIC: ***FS\_eFRMCS Status report*** (Report)

***Summary:*** 80% complete (because of 2 contributions withdrawn)

***Conclusion:*** Noted

[S1-213226](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213226.zip) from China Mobile: ***FS\_TACMM Status report*** (Report)

***Summary:*** 85% complete

***Conclusion:*** Noted

[S1-213227](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213227.zip) from China Mobile: ***eMMTEL Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213228](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213228.zip) from BDBOS: ***SACI\_MCS Status report*** (Report)

***Summary:*** 80% complete

***Conclusion:*** Noted

[S1-213229](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213229.zip) from OPPO: ***AMMT Status report*** (Report)

***Summary:*** 80% complete (several "TBD" in the annex)

***Conclusion:*** Noted

[S1-213230](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213230.zip) from KPN: ***Pirates Status report*** (Report)

***Summary:*** 85% complete

***Conclusion:*** Noted

[S1-213231](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213231.zip) from Vivo: ***PIN Status report*** (Report)

***Summary:*** Withdrawn

***Conclusion:*** Withdrawn

[S1-213232](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213232.zip) from Qualcomm: ***PALS Status report*** (Report)

***Summary:*** 95% complete (annex missing)

***Conclusion:*** Noted

[S1-213233](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213233.zip) from Qualcomm: ***VMR Status report*** (Report)

***Summary:*** 95% complete

***Conclusion:*** Noted

[S1-213234](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213234.zip) from China Mobile: ***TACMM Status report*** (Report)

***Summary:*** 0% complete (WID just agreed)

***Conclusion:*** Noted

[S1-213235](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213235.zip) from Deutsche Telekom: ***SENSE Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213236](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213236.zip) from Xiaomi: ***SCVS Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213244](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213244.zip) from Raporteur: ***SEI Status report*** (Report)

***Summary:*** 95% complete

***Conclusion:*** Noted

[S1-213245](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213245.zip) from Siemens: ***EXPOSE Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213246](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213246.zip) from Peraton Labs: ***MPS\_WLAN Status report*** (Report)

***Summary:*** 100% complete

***Conclusion:*** Noted

[S1-213247](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213247.zip) from Samsung: ***AHGC - Status report*** (Other)

***Summary:*** 100% complete

***Conclusion:*** Noted

# 11 Next meetings

## 11.1 Calendar

**2021 meetings:**

**SA1#96e 8-18 Nov 2021 e-meeting**

**2022 meetings:**

**SA1#97 21-25 Feb 2021 Europe – Poland, Warsaw (or e-meeting)**

**SA1#98 09-13 May 2021 Asia - Korea**

**SA1#99 22-26 Aug 2021 Europe – Sweden, Goteborg**

**SA1#100 07-11 Nov 2021 North America (dates and location T.B.D.)**

# 12 Any other business

There was no contribution for this agenda item.

# 13 Close

The chairman and ETSI MCC closed the meeting at 5:00 PM UTC on Thursday 2nd September 2021, and the deadline for latest version upload was set to Friday 3rd September 11PM UTC (Saturday 4th September 1 AM CEST).

They thanked all the delegates for their work and their positive attitude.

# Annexes

## Annex A: List of contribution documents

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tdoc # | Source | Title | Type | For | Spec | CR# | r | cat | Version in | Rel | WI |
| [S1-213000](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213000.zip) | SA WG1 Chair | Draft agenda for SA1#95e | agenda | information |  |  |  |  |  |  |  |
| [S1-213001](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213001.zip) | SA WG1 Chair | 2nd Draft agenda for SA1#95e | agenda | information |  |  |  |  |  |  |  |
| [S1-213002](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213002.zip) | SA WG1 Chair | Agenda for SA1#95e with tdoc allocation | agenda | information |  |  |  |  |  |  |  |
| [S1-213003](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213003.zip) | ETSI MCC | Draft minutes of SA1#94bis-e | report | information |  |  |  |  |  |  |  |
| [S1-213004](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213004.zip) | ETSI MCC | Minutes of SA1#94bis-e | report | information |  |  |  |  |  |  |  |
| [S1-213005](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213005.zip) | ETSI MCC | Work Plan presentation for SA1#95e | Work Plan | Information |  |  |  |  |  |  |  |
| [S1-213006](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213006.zip) | SA1 Chair, MCC | Guidelines for SA1#95e (e-meeting) | other | information |  |  |  |  |  |  |  |
| [S1-213007](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213007.zip) | SA1 chairman | SA1-related topics at SA#92e | other | information |  |  |  |  |  |  |  |
| [S1-213008](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213008.zip) | ETSI MCC | MCC info on CR Rules | other | information |  |  |  |  |  |  |  |
| [S1-213009](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213009.zip) | SA WG1 Chair | Reserved | other | information |  |  |  |  |  |  |  |
| [S1-213010](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213010.zip) | TNO for SA1 | LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN deployed in an area which | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |
| [S1-213011](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213011.zip) | KPN for SA1 | LS to BBF Technical Committee Chair (cc SA2) on Reply LS on Alignment concerning 5G RG requirements and its remote | LS out | agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213012](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213012.zip) | KPN | 5G LAN related rquirements from FS\_Resident | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 533 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213013](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213013.zip) | KPN | Application Server related requirements from FS\_Resident | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 534 |  | C | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213014](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213014.zip) | The MITRE Corporation | Discussion of Integration of Non-3GPP Non-Terrestrial Networks into | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213015.zip) | NTIA | New SID on Spectrum Sharing with Incompatible Radio Systems | SID new | Agreement |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213016](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213016.zip) | Siemens | Quality improvement: update of reference to IEEE 802.1AS | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 76 |  | D | 17.6.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [eCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840041) |
| [S1-213017](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213017.zip) | Siemens | Quality improvement: update of reference to IEEE 802.1AS | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 77 |  | A | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [eCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840041) |
| [S1-213018](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213018.zip) | vivo Mobile Com. (Chongqing) | Consolidated requirements - discovery additions | CR | agreement | [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 15 |  | B | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |
| [S1-213019](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213019.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates definitions and abbreviations | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 535 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213020](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213020.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates general introduction | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 536 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213021](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213021.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates Overview of Customer Premises Networks | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 537 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213022](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213022.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates overview of PIN | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 538 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213023](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213023.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 539 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213024](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213024.zip) | KPN, vivo Mobile Communications Co. LTD | CPN and PIN definitions, introduction and requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 540 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213025](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213025.zip) | Korea Railroad Research Institute (KRRI) | Updates to Virtual coupling use case | pCR | agreement | [22.990](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_OffNetRail](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |
| [S1-213026](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213026.zip) | BDBOS, Home Office | Sharing administrative configuration between Mission Critical Organizations | CR | agreement | [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 146 |  | B | 17.6.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_SACI\_MCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850043) |
| [S1-213027](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213027.zip) | Siemens, Huawei, Harting, Daimler | New work item on service exposure for industrial automation | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213028](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213028.zip) | Siemens, Harting, Daimler | Discussion of EXPOSE change requests | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213029](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213029.zip) | Siemens, Harting, Daimler | EXPOSE: editorial improvement of a QoS monitoring requirement | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 541 |  | D | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213030](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213030.zip) | Siemens, Harting, Daimler | EXPOSE: addition to QoS monitoring requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 542 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213031](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213031.zip) | BDBOS | Correction - Adding missing requirements into tables in the normative Annexes | CR | agreement | [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 147 |  | F | 17.6.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [MONASTERY2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=760054) |
| [S1-213032](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213032.zip) | Siemens, Harting, Daimler | EXPOSE: correction of a QoS monitoring requirement | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 543 |  | F | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213033](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213033.zip) | Siemens, Harting, Daimler | EXPOSE: addition of position uncertainty | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 544 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213034](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213034.zip) | Siemens | EXPO: privisioning and onboarding of UE groups | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 545 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213035](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213035.zip) | Huawei, China Telecom, CEPRI | Update Consolidated PR in Section 7 | CR | agreement | [22.867](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 16 |  | B | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_5GSEI](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) |
| [S1-213036](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213036.zip) | Lenovo, Motorola Mobility | Miscellaneous corrections from CR implementation | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 546 |  | D | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI18](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) |
| [S1-213037](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213037.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone | Introduction of Smart Energy Infrastructure Requirements | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 78 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) |
| [S1-213038](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213038.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone | Introduction of Smart Energy Infrastructure Requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 547 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213039](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213039.zip) | China Telecom, ZTE, CEPRI, Samsung, EUTC | Introduction of SEI KPIs | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 79 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) |
| [S1-213040](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213040.zip) | ZTE, China Telecom, CEPRI, Samsung | Annex for smart grid | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 80 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) |
| [S1-213041](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213041.zip) | Samsung, ZTE | Normative specification for SEI requirements | discussion | discussion |  |  |  |  |  |  |  |
| [S1-213042](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213042.zip) | Samsung, EUTC, China Telecom, Vodafone | Addition of requirements for Confidentiality in 5GS | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 548 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213043](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213043.zip) | Deutsche Telekom, Charter Communications, China Telecom, KDDI, KPN, Orange, Telecom Italia, Vodafone, Convida Wireless, Ericsson, IDEMIA, InterDigital, LG Electronics, Philips, Thales, vivo Mobile Communications Co. LTD | Signal level Enhanced Network Selection | CR | agreement | [22.011](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 322 | 3 | B | 17.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SENSE](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) |
| [S1-213044](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213044.zip) | Deutsche Telekom AG | SENSE restriction alternatives | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SENSE](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920033) |
| [S1-213045](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213045.zip) | China Mobile, Huawei, Deutsche Telekom | Evolution of IMS Multimedia Telephony Service | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 549 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [eMMTEL](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920029) |
| [S1-213046](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213046.zip) | OPPO | New SID: Study on Wireless Power Sourcing enabled Communication Services (WPSCS) | SID new | Agreement |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213047](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213047.zip) | OPPO | Motivaton of support Ultra-power communication Services in 5GS | discussion | discussion |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213048](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213048.zip) | China Telecom, CEPRI-China, China Southern Power Grid, ZTE, Huawei | Introduce of Smart Grid service | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 550 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213049](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213049.zip) | OPPO | Adding performance requirements for AMMT | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 551 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920037) |
| [S1-213050](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213050.zip) | OPPO | Adding performance requirements for AMMT | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 552 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920037) |
| [S1-213051](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213051.zip) | OPPO | Adding annex for AMMT | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 553 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920037) |
| [S1-213052](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213052.zip) | Huawei | Discussion on KPI table format | discussion | discussion | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213053](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213053.zip) | Huawei | Discussion on synchronisation thresholds | discussion | discussion | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213054](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213054.zip) | Huawei | pCR to update clause 5.1 | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213055](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213055.zip) | Convida Wireless LLC | MSGin5G store and forward discussion | discussion | discussion |  |  |  |  |  |  |  |
| [S1-213056](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213056.zip) | Convida Wireless for SA1 | LS to SA6 response on MSGin5G store-and-forward clarifications | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213057](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213057.zip) | Huawei for SA1 | LS to BBF Technical Committee Chair (cc SA2) on Reply LS on BBF request for collaboration with 3GPP SA1 on study of | LS out | agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_Resident](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |
| [S1-213058](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213058.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliability definition | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 554 |  | F | 15.8.0 | [Rel-15](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=190) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213059](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213059.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 555 |  | A | 16.14.0 | [Rel-16](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213060](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213060.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 556 |  | A | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213061](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213061.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 557 |  | A | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213062](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213062.zip) | vivo | Clarification on the handling of non publicly available references | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213063](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213063.zip) | vivo | Correction of editorial issues | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213064](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213064.zip) | vivo | Usecase 5.5 Update: Addition of multi-path | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213065](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213065.zip) | NTT DOCOMO | Discussion related to the received LS (5GJA#17 Doc 111r2) | discussion | discussion |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [eCPSOR\_CON](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850039) |
| [S1-213066](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213066.zip) | NTT DOCOMO | Removal of user intervention on services exempted from release due to SOR | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 558 |  | F | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [eCPSOR\_CON](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850039) |
| [S1-213067](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213067.zip) | NTT DOCOMO | Removal of user intervention on services exempted from release due to SOR | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 559 |  | A | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [eCPSOR\_CON](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850039) |
| [S1-213068](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213068.zip) | NTT DOCOMO for 3GPP SA1 | LS to GSMA 5GJA, 3GPP CT1 on [DRAFT] Reply LS on Steering of Roaming regarding handling of SOR-CMCI | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [eCPSOR\_CON](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850039) |
| [S1-213069](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213069.zip) | Qualcomm, Interdigital | Updating PALS Consolidated Potential Requirements | CR | agreement | [22.844](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 3 | 2 | F | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |
| [S1-213070](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213070.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | New WID on MPS when access to EPC/5GC is WLAN | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213071](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213071.zip) | Qualcomm, Kyonggi University | Additional FS\_PALS Consolidated Requirements | CR | agreement | [22.844](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 7 |  | C | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |
| [S1-213072](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213072.zip) | QUALCOMM | FS\_PALS TR Cleanup | CR | agreement | [22.844](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 8 |  | F | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) |
| [S1-213073](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213073.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | MPS when access to EPC/5GC is WLAN | CR | agreement | [22.153](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) | 49 |  | B | 17.2.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213074](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213074.zip) | Qualcomm, Kyonggi University | Introducing PALS Normative Requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 560 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [PALS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920031) |
| [S1-213075](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213075.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | Fallback in 5GS | CR | agreement | [22.153](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=617) | 50 |  | B | 17.2.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213076](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213076.zip) | Korea Railroad Research Institute (KRRI) | AUpdates to Autonomous train control and operation use case | pCR | agreement | [22.990](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_OffNetRail](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |
| [S1-213077](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213077.zip) | Xiaomi | New SID on 3GPP based Wireless Sensing Services (FS\_3GPP\_WSS) | SID new | Agreement |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213078](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213078.zip) | Xiaomi | 3GPP based Wireless Sensing Services | discussion | discussion |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213079](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213079.zip) | Xiaomi | Update to KPIs to 5G system with satellite access for support control and/or video surveillance | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 519 | 1 | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SCVS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920034) |
| [S1-213080](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213080.zip) | Xiaomi | Clarification to services provided by 5G system with satellite access | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 520 | 2 | F | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=60094) |
| [S1-213081](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213081.zip) | Qualcomm [SA1] | [DRAFT] LS reply on PWS over SNPN | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |
| [S1-213082](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213082.zip) | Qualcomm for SA1 | LS to CT1 (cc SA2) on Reply LS on SNPN emergency services in areas not belonging to any | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |
| [S1-213083](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213083.zip) | Qualcomm | Clarify requirements for IMS emergency services over Non-public networks | CR | agreement | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 573 |  | F | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | IESNPN, eNPN |
| [S1-213084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213084.zip) | Qualcomm [SA1] | [DRAFT] LS reply on requirements for problematic UAVs | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |
| [S1-213085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213085.zip) | Qualcomm | Clarify requirements on unauthorized UAVs | CR | agreement | [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) | 35 |  | F | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [ID\_UAS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810013) |
| [S1-213086](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213086.zip) | China Mobile Com. Corporation | Discussion on additional capabilities of mobile networks for drone operations and management | SID new | Agreement |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213087](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213087.zip) | China Mobile Com. Corporation | New SID on Additional capabilities of mobile networks for drone operations and management | SID new | Agreement |  |  |  |  |  |  |  |
| [S1-213088](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213088.zip) | China Mobile | New SID on Additional capabilities of mobile networks for drone (FS\_DOM) | SID new | Agreement |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213089](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213089.zip) | China Telecom for SA1 | LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN deployed in an area which | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213090](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213090.zip) | China Telecom, Huawei, ZTE Corporation, CATT | Handling of emergency numbers in non-public networks | CR | agreement | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 574 |  | F | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213091](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213091.zip) | China Telecom, Huawei, ZTE Corporation, CATT | Handling of emergency numbers in non-public networks | CR | agreement | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 575 |  | A | 18.1.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213092](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213092.zip) | Xiaomi | Updated FS\_VMR consolidated requirements | pCR | agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213093](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213093.zip) | Xiaomi | Proposal on consolidated requirements of direct communications for FS\_PIN | CR | agreement | [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 16 |  | B | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |
| [S1-213094](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213094.zip) | Xiaomi | TACMM New Use Case Handover in Multi-modality Interaction System | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213095](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213095.zip) | Xiaomi | Discussion for proposal on consolidated requirements of direct | discussion | discussion | [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) |  |  |  | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |
| [S1-213096](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213096.zip) | OPPO | FS\_AMMT update to Functional requirements for AMMT services | CR | agreement | [22.874](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) | 1 |  | C | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |
| [S1-213097](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213097.zip) | OPPO | FS\_AMMT update to clause 7.4 Group performance Flocking Use Case | CR | agreement | [22.874](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3721) | 2 |  | C | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860009) |
| [S1-213098](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213098.zip) | InterDigital | FS\_TACMM: Resolving the Editor s Notes on the use case Haptic feedback | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213099](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213099.zip) | InterDigital | FS\_TACMM: Improved text on multi-modality input and output | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213100](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213100.zip) | InterDigital | FS\_TACMM: Update on definition of Multi-modality Data | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213101](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213101.zip) | Kyonggi University | Update of Section 3 (definitions) | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213102.zip) | Kyonggi University | Transportation convenience service for the weak | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213103.zip) | China Mobile | pCR on consolidated requirements of FS\_TACMM | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213104.zip) | China Mobile | pCR on updating KPI table and requirements of Immersive VR games use case | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213105.zip) | FirstNet, Samsung, Ericsson, Kontron Transportation France, UIC | Ad hoc group call requirements | CR | agreement | [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 148 |  | B | 17.6.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [MCImp-MCCoRe](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=700028) |
| [S1-213106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213106.zip) | China Mobile | pCR on updating KPI table of remote control robot use case | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213107.zip) | China Mobile | pCR on Adding use case for remote UAV control through HD video in First | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213108.zip) | China Mobile, Xiaomi, KPN, Futurewei, vivo, ZTE,CATT, Interdigital | New WID on supporting tactile and multi-modality communication services | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213109.zip) | China Mobile | New SID on supporting Computing Aware Network (FS\_CAN) | SID new | Agreement |  |  |  |  |  | [Rel-19](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=194) |  |
| [S1-213110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213110.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone | Introduction of Smart Energy Infrastructure Requirements | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 81 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) |
| [S1-213111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213111.zip) | Siemens for SA WG 1 | LS to SA WG 6 (cc SA WG 3, SA) on [DRAFT] Reply LS pertaining to new SID on Application Enablement for Data Integrity Verification Service in IOT | LS out | agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213112.zip) | China Mobile | Support of non-3GPP satellite access for legacy satellite UE not supporting N1 mode | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 561 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213113.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone | Introduction of Smart Energy Infrastructure Requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 562 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213114.zip) | China Mobile | Provide enhanced capability for high priority short message delivery | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 563 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213115.zip) | China Telecom, ZTE, CEPRI, Samsung, EUTC | Introduction of SEI KPIs | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 82 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [cyberCAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=800007) |
| [S1-213116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213116.zip) | China Mobile | Support multiple non-public networks access and corresponding simultaneous services for a UE | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 564 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213117.zip) | Siemens | Adjusting scope clause in TS 22.104 to the specification s content | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 83 |  | D | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SEI](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920032) |
| [S1-213118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213118.zip) | Samsung, EUTC, China Telecom, Vodafone | Addition of requirements for Confidentiality in 5GS | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 565 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213119.zip) | Huawei Technologies Sweden AB for SA1 | LS to GSMA-ACJA, SA2, SA6 (cc SA3) on Reply LS on 3GPP SA1 clarifications on problematic UAV | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [ID\_UAS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810049) |
| [S1-213120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213120.zip) | Huawei Technologies Sweden AB for SA1 | LS to CT1 (cc SA2, SA3, RAN2, RAN3, SA, CT, RAN) on Reply LS on support of PWS over SNPN | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |
| [S1-213121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213121.zip) | Samsung, ZTE | Normative specification for SEI requirements | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213122.zip) | UIC | Updates to Conclusion and Recommendations clause | pCR | agreement | [22.990](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3768) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_OffNetRail](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |
| [S1-213123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213123.zip) | UIC | Changes to Critical Support Applications Inviting-a-FRMCS User to a voice communication use case to support Interworking with GSM-R | CR | agreement | [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 4 |  | C | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026) |
| [S1-213124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213124.zip) | ETRI | Reference correction | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 566 |  | D | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213125.zip) | China Mobile | pCR on updating multi-modality concept | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213126.zip) | Union Inter. Chemins de Fer | Changes to System Principle “Interworking between GSM-R and FRMCS” to reflect latest user requirements | CR | agreement | [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 5 |  | C | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026) |
| [S1-213127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213127.zip) | UIC | Changes to Critical Support Applications Multiuser talker control use case to support configurable initial talker permission | CR | agreement | [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 6 |  | C | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026) |
| [S1-213128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213128.zip) | Union Inter. Chemins de Fer | Enabling/Disabling communication privileges of users (autorisation of applications) | CR | agreement | [22.989](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3109) | 7 |  | C | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_eFRMCS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900026) |
| [S1-213129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213129.zip) | Samsung, FirstNet, AT&T, Ericsson, Kontron, Motorola Solutions, Nokia, Nokia | New WID on supporting Ad Hoc Group Communication in Mission Critical | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213130.zip) | ETRI | Editorial corrections for references, abbreviations and clause 6.36 | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 567 |  | D | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI18](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) |
| [S1-213131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213131.zip) | Samsung R&D Institute UK | New WID proposal - Ad hoc Group Communication (AHGC) support in Mission Critical Services | discussion | discussion |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213132.zip) | Samsung, TNO, Thales | Exclusion Areas Considerations for Extraterritorial Communications | pCR | agreement | [22.926](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3722) |  |  |  | 0.4.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_5GET](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |
| [S1-213133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213133.zip) | Samsung for SA1 | [DRAFT] LS to ICAO (cc SA) on Non-territorial emergency or distress call | LS out | agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_5GET](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |
| [S1-213134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213134.zip) | Qualcomm, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, Firstnet, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI | Removing ENs from consolidated requirements | pCR | agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213135.zip) | Qualcomm | Updates to FS\_VMR consolidated requirements | pCR | agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213136.zip) | Qualcomm | FS\_VMR TR clean-up: resolving remaining Editor notes | pCR | agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213137.zip) | Qualcomm | TR cover sheet | TS or TR cover | Agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.2.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213138.zip) | Qualcomm | New WID: Requirements on Vehicle-mounted relays | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213139.zip) | Qualcomm, Firstnet, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI | Introduction of VMR requirements | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 568 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213140](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213140.zip) | Apple | Proposal for ProSe Extreme Range | discussion | discussion |  |  |  |  |  |  |  |
| [S1-213141](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213141.zip) | Apple | New WID on ProSe Extreme Range (ProSe\_ER) | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213142](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213142.zip) | Apple, Convida Wireless, FirstNet, MITRE Corporation, Netherlands Police | ProSe Extreme Range | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 569 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213143](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213143.zip) | Samsung, FirstNet, Police of the Netherlands, UIC, CATT, Qualcomm | 22.839 P-CR: Satellite support for vehicular mobile relays | pCR | agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213144](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213144.zip) | Apple | Distinguishing UE traffic for AI/ML data transfer communications | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 570 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [AMMT](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920030) |
| [S1-213145](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213145.zip) | Apple | Correction of 'air interface' terminology | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 571 |  | D | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213146.zip) | Apple | Correction of 'air interface' terminology | CR | agreement | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 576 |  | D | 18.1.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213147.zip) | Apple | Correction of 'air interface' terminology | CR | agreement | [22.011](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 324 |  | D | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213148.zip) | Apple | CR to 22.278 v17.2.0 on Correction of 'air interface' terminology | CR | agreement | [22.278](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=641) | 288 |  | D | 17.2.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213149.zip) | Apple | Correction of 'air interface' terminology | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 572 |  | D | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213150.zip) | Apple | Correction of 'air interface' terminology | CR | agreement | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 577 |  | D | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213151.zip) | InterDigital | Requirements on PIN element discovery restriction | CR | agreement | [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 1 | 2 | B | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |
| [S1-213152](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213152.zip) | InterDigital | Addition of consolidated requirements for use case on PIN element discovery restriction | CR | agreement | [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 17 |  | B | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |
| [S1-213153](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213153.zip) | InterDigital | Addition of consolidated requirements for use case on PIN element discovery restriction | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 573 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213154](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213154.zip) | Samsung, FirstNet, Police of the Netherlands, UIC, Qualcomm, EUTC | 22.839 P-CR: Coverage Extension Consolidated Requirement | pCR | agreement | [22.839](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213155](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213155.zip) | Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc. | Clarification of requirements for time synchronization with direct device connection and indirect network connection communication | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 84 |  | F | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213156](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213156.zip) | Philips International B.V. | UE requesting to be added to a PIN | CR | agreement | [22.859](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 18 |  | B | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_PIN](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880041) |
| [S1-213157](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213157.zip) | ETRI, China Unicom | UAS terminology alignment | CR | agreement | [22.125](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3545) | 36 |  | F | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [EAV](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=840039) |
| [S1-213158](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213158.zip) | Qualcomm | New WID: Enhancements to time synchronization requirements | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213159](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213159.zip) | Qualcomm | Synchronization requirements for direct device connection | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 85 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213160](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213160.zip) | Qualcomm | Time synchronization requirements for process automation | CR | agreement | [22.104](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3528) | 86 |  | B | 18.1.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213161](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213161.zip) | Qualcomm Incorporated | Proposal on Human readable name for NW slices | other | information |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213162](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213162.zip) | Qualcomm | Human readable name for NW slices | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 574 |  | C | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [EASNS](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=910032) |
| [S1-213163](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213163.zip) | ETRI | UAS terminology alignment | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 575 |  | F | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213164](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213164.zip) | LG Electronics, LG Uplus, OPPO | Feasibility Study on 5G System Support for Service-Oriented Robots (FS\_SOBOT) | SID new | Agreement |  |  |  |  |  |  |  |
| [S1-213165](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213165.zip) | LG Electronics Inc. | Study on 5G System Support for Service Robots (Presentation) - Cloud-based Robot Operations and their networking design considerations - Part I | discussion | discussion |  |  |  |  |  |  |  |
| [S1-213166](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213166.zip) | Philips International B.V. | New WID on clarifying NPN in 22.261 | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213167](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213167.zip) | ETRI | UAS terminology alignment | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 576 |  | A | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI18](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=920042) |
| [S1-213168](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213168.zip) | Philips International B.V. | Clarification of NPN in 22.261 | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 518 | 1 | D | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213169](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213169.zip) | Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications | New WID on clarifying NPN in 22.261 | WID new | Agreement |  |  |  |  |  | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  |
| [S1-213170](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213170.zip) | Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell | Clarification of NPN in 22.261 | CR | agreement | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 518 | 2 | D | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213171](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213171.zip) | China Unicom | Reply LS to SA (cc SA3, SA6, SA2) on UAS terminology alignment | LS out | agreement |  |  |  |  |  | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) |  |
| [S1-213172](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213172.zip) | Philips International B.V. | Update definition of non-3GPP device | CR | agreement | [22.858](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 26 |  | F | 18.0.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_Resident](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880040) |
| [S1-213173](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213173.zip) | Apple | Summary of CRs correcting the term air interface | Discussion | Discussion |  |  |  |  |  |  |  |
| [S1-213174](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213174.zip) | Huawei for SA1 | LS to RAN1, SA3 (cc SA3-LI) on Reply LS on broadcast of NTN GW or gNB position | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213175](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213175.zip) | NTIA | Supporting slides for the Rel-19 SID on spectrum sharing with incompatible radio systems in [S1-213015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213015.zip) | Discussion | Discussion |  |  |  |  |  |  |  |
| [S1-213176](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213176.zip) | convidawireless | 22.262v16.0.0 CR on MSGin5G store-and-forward modifications | CR | agreement | 22.262 | 1 |  |  | 16.0.0 | Rel-17 |  |
| [S1-213177](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213177.zip) | Huawei | CR on requirements for problematic UAVs | CR | agreement | 22.125 | 37 |  | F | 17.3.0 | Rel-17 | TEI17 |
| [S1-213178](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213178.zip) | vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo, Philips, Apple, Nokia, Nokia Shanghai Bell, Spreadtrum, Futurewei, Intel, Huawei | Revised WID on Pirates to add a supporting company | WID revised | Agreement |  |  |  |  |  |  |  |
| [S1-213179](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213179.zip) | S1-211273/ GSMA ACJA LS\_UAV | 3GPP SA1 clarifications on problematic UAV | LS in | information |  |  |  |  |  |  |  |
| [S1-213180](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213180.zip) | 5GAA S-210049 | answer LS on support eCall over IMS over 3GPP SNPN | LS in | information |  |  |  |  |  |  |  |
| [S1-213181](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213181.zip) | GSMA 5GJA#17 Doc 111r2 | LS from 5GJA to 3GPP SA1 on Steering of Roaming regarding handling of SOR-CMCI | LS in | information |  |  |  |  |  |  |  |
| [S1-213182](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213182.zip) | NGMN Alliance Project “5G TDD Uplink” | LS on 5G NR TDD Uplink Throughput | LS in | information |  |  |  |  |  |  |  |
| [S1-213183](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213183.zip) | C1-213527 | LS on UAC enhancements for minimization of service interruption when disaster condition applies | LS in | information |  |  |  |  |  |  |  |
| [S1-213184](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213184.zip) | C1-213640 | Reply LS on support of PWS over SNPN | LS in | information |  |  |  |  |  |  |  |
| [S1-213185](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213185.zip) | C1-213960 | LS on emergency services in an SNPN deployed in an area which does not belong to any country | LS in | information |  |  |  |  |  |  |  |
| [S1-213186](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213186.zip) | C6-210180 | LS for clarification on managing expired or multiple Protection Scheme and Home Network keys used for SUCI calculation | LS in | information |  |  |  |  |  |  |  |
| [S1-213187](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213187.zip) | Broadband Forum LIAISE-467-03 | LS on BBF and 3GPP collaboration on the 5G WWC project | LS in | information |  |  |  |  |  |  |  |
| [S1-213188](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213188.zip) | ITU-T | LS on new work item on draft Recommendation ITU-T F.VG-VMA "Architecture of vehicular multimedia systems" [to various organizations] | LS in | information |  |  |  |  |  |  |  |
| [S1-213189](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213189.zip) | R1-2106332 | LS on broadcast of NTN GW or gNB position | LS in | information |  |  |  |  |  |  |  |
| [S1-213190](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213190.zip) | R2-2106777 | Reply LS on limited service availability of an SNPN | LS in | information |  |  |  |  |  |  |  |
| [S1-213191](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213191.zip) | R3-212863 | Reply LS on support of PWS over SNPN in R17 | LS in | information |  |  |  |  |  |  |  |
| [S1-213192](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213192.zip) | S2-2104794 | LS on 5G capabilities exposure for factories of the future | LS in | information |  |  |  |  |  |  |  |
| [S1-213193](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213193.zip) | S2-214916 | Reply LS to GSMA-ACJA: 3GPP SA1 clarifications on problematic UAV | LS in | information |  |  |  |  |  |  |  |
| [S1-213194](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213194.zip) | S3-212355 | Reply LS on IP address to GPSI translation | LS in | information |  |  |  |  |  |  |  |
| [S1-213195](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213195.zip) | S6-211496 | LS on new SID on Application Enablement for Data Integrity Verification Service in IOT | LS in | information |  |  |  |  |  |  |  |
| [S1-213196](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213196.zip) | S6-211497 | LS on 5G capabilities exposure for factories of the future | LS in | information |  |  |  |  |  |  |  |
| [S1-213197](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213197.zip) | S6-211831 | LS on MSGin5G store-and-forward clarifications | LS in | information |  |  |  |  |  |  |  |
| [S1-213198](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213198.zip) | SP-210579 | LS on UAS terminology alignment | LS in | information |  |  |  |  |  |  |  |
| [S1-213199](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213199.zip) | SP-210584 | LS to SA1, SA3, CT1, RAN2, RAN3 (cc SA2, CT, RAN) on Reply on support of PWS over NPN | LS in | information |  |  |  |  |  |  |  |
| [S1-213200](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213200.zip) | Rapporteur (Qualcomm) | TR22.839 v1.2.0 to include agreements at this meeting | draft TR | agreement | 22.839 |  |  |  | 1.2.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_VMR](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) |
| [S1-213201](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213201.zip) | Rapporteur (China Mobile) | TR22.847v0.4.0 to include agreements at this meeting | Draft TR | TR | 22.847 |  |  |  | 0.4.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213202](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213202.zip) | Samsung, China Telecom, ZTE | Inclusion of Smart Energy Infrastructure Requirements | CR | agreement | 22.104 | 87 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213203](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213203.zip) | Samsung, China Telecom, ZTE | Inclusion of Smart Energy Infrastructure Requirements | CR | agreement | 22.261 | 577 |  | B | 18.3.0 | Rel-18 | SEI |
| [S1-213204](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213204.zip) | Qualcomm, Interdigital | Updating PALS Consolidated Potential Requirements | CR | agreement | 22.844 | 3 | 3 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-213205](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213205.zip) | Qualcomm, Interdigital, Kyonggi University | Updating PALS Consolidated Potential Requirements | CR | agreement | 22.844 | 3 | 4 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-213206](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213206.zip) | CT1 | Indication of country of UE location and its use in PLMN selection | LS in | information |  |  |  |  |  |  |  |
| [S1-213207](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213207.zip) | SA1 | LS to CT1 (cc SA2, SA3-LI) on Reply LS on Indication of country of UE location and its use in PLMN | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213208](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213208.zip) | SA1 | LS response to SA6 on MSGin5G store-and-forward clarifications | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213209](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213209.zip) | Convida Wireless | MSGin5G store-and-forward modifications | CR | agreement | 22.262 | 1 | 1 | F | 16.0.0 | Rel-17 | MSGin5G |
| [S1-213210](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213210.zip) | 3GPP TSG SA WG1 | LS to ICAO (cc 3GPP TSG SA) on LS on Non-territorial emergency or distress call | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213211](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213174.zip) | SA1 | LS to RAN1, SA3 (cc SA3-LI) on Reply LS on broadcast of NTN GW or gNB position | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213212](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213212.zip) | ETSI MCC | Process to clean-up requirements | Other | Information |  |  |  |  |  |  |  |
| [S1-213213](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213213.zip) | Siemens, Harting, Mercedes-Benz | Editorial improvement of a QoS monitoring requirement | CR | agreement | 22.261 | 578 |  | D | 17.7.0 | Rel-17 | eCAV |
| [S1-213214](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213214.zip) | Huawei | Discussion paper for the UAV LS | Discussion | Discussion |  |  |  |  |  |  |  |
| [S1-213215](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213215.zip) | China Mobile | FS\_MMTELin5G Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213216](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213216.zip) | BDBOS | FS\_SACI\_MCS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213217](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213217.zip) | Hansung University | FS\_RAILSS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213218](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213218.zip) | OPPO | FS\_AMMT Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213219](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213219.zip) | THALES | FS\_5GET Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213220](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213220.zip) | UIC | FS\_OffNetRail Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213221](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213221.zip) | KPN | FS\_Resident Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213222](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213222.zip) | Vivo | FS\_PIN Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213223](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213223.zip) | Qualcomm | FS\_PALS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213224](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213224.zip) | Qualcomm | FS\_VMR Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213225](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213225.zip) | UIC | FS\_eFRMCS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213226](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213226.zip) | China Mobile | FS\_TACMM Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213227](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213227.zip) | China Mobile | eMMTEL Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213228](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213228.zip) | BDBOS | SACI\_MCS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213229](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213229.zip) | OPPO | AMMT Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213230](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213230.zip) | KPN | Pirates Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213231](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213231.zip) | Vivo | PIN Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213232](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213232.zip) | Qualcomm | PALS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213233](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213233.zip) | Qualcomm | VMR Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213234](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213234.zip) | China Mobile | TACMM Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213235](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213235.zip) | Deutsche Telekom | SENSE Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213236](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213236.zip) | Xiaomi | SCVS Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213237](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213237.zip) | Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc. | Clarification of requirements for time synchronization with direct device connection and indirect network connection communication | CR | agreement | 22.104 | 88 |  | F | 17.6.0 | Rel-17 | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213238](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213238.zip) | Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell | Clarification of NPN in 22.261 | CR | agreement | 22.261 | 579 |  | F | 17.7.0 | Rel-17 | AVPROD |
| [S1-213239](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213239.zip) | Rapporteur (Hansung University) | TR22.890v0.5.0 to include agreements at this meeting | draft TR | agreement | 22.890 |  |  |  | 0.5.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_5GET](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |
| [S1-213240](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213240.zip) | Rapporteur (Thales) | Cover sheet of the TR22.926 | TS or TR cover | Agreement | 22.926 |  |  |  | 0.5.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_5GET](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |
| [S1-213241](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213241.zip) | Rapporteur (Thales) | TR22.926v0.5.0 to include agreements at this meeting | draft TR | agreement | 22.926 |  |  |  | 0.5.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_5GET](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860010) |
| [S1-213242](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213242.zip) | Rapporteur (UIC) | TR22.990v0.4.0 to include agreements at this meeting | draft TR | agreement | 22.990 |  |  |  | 0.4.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_OffNetRail](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |
| [S1-213243](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213243.zip) | Rapporteur (China Mobile) | cover sheet of the TR22.847 | TS or TR cover | Agreement | 22.847 |  |  |  | 0.4.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213244](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213244.zip) | Raporteur | SEI Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213245](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213245.zip) | Siemens | EXPOSE Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213246](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213246.zip) | Peraton Labs | MPS\_WLAN Status report | Report | Information |  |  |  |  |  |  |  |
| [S1-213247](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213247.zip) | Samsung | AHGC - Status report | Other | Information |  |  |  |  |  |  |  |
| [S1-213248](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213248.zip) | Rapporteur (UIC) | Coverpage for 22.990 for information | TS or TR cover | Agreement | 22.990 |  |  |  | 0.4.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_OffNetRail](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880036) |
| [S1-213249](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213249.zip) | Rapporteur (China Mobile) | cover sheet of the TR22.847 | TS or TR cover | Agreement | 22.847 |  |  |  | 0.4.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213250](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213250.zip) | 3GPP SA1 | LS to GSMA 5GJA, 3GPP CT1 on Reply LS on Steering of Roaming regarding handling of SOR-CMCI | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213251](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213251.zip) | NTT DOCOMO | Removal of user intervention on services exempted from release due to SOR | CR | agreement | 22.261 | 558 | 1 | F | 17.7.0 | Rel-17 | eCPSOR\_CON |
| [S1-213252](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213252.zip) | NTT DOCOMO | Removal of user intervention on services exempted from release due to SOR | CR | agreement | 22.261 | 559 | 1 | A | 18.3.0 | Rel-18 | eCPSOR\_CON |
| [S1-213253](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213253.zip) | SA1 | LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN deployed in an area which | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213254](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213254.zip) | China Telecom, Huawei, HiSilicon, ZTE Corporation, CATT, Deutsche Telekom | Handling of emergency numbers in non-public networks | CR | agreement | 22.101 | 574 | 1 | F | 17.3.0 | Rel-17 | TEI17 |
| [S1-213255](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213255.zip) | China Telecom, Huawei, HiSilicon, ZTE Corporation, CATT, Deutsche Telekom | Handling of emergency numbers in non-public networks | CR | agreement | 22.101 | 575 | 1 | A | 18.1.1 | Rel-18 | TEI17 |
| [S1-213256](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213256.zip) | 3GPP TSG SA1 | LS to 3GPP TSG SA (cc 3GPP SA WG3, 3GPP SA WG6, 3GPP SA WG2) on Reply LS on UAS terminology alignment | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213257](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213257.zip) | ETRI, China Unicom | UAS terminology alignment | CR | agreement | 22.125 | 36 | 1 | D | 17.3.0 | Rel-17 | ID\_UAS, EAV |
| [S1-213258](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213258.zip) | ETRI, China Unicom | UAS terminology alignment | CR | agreement | 22.261 | 575 | 1 | D | 17.7.0 | Rel-17 | ID\_UAS, EAV |
| [S1-213259](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213259.zip) | ETRI, China Unicom | UAS terminology alignment | CR | agreement | 22.261 | 576 | 1 | A | 18.3.0 | Rel-18 | ID\_UAS, EAV |
| [S1-213260](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213260.zip) | KPN | Reply LS to BBF Technical Committee Chair (cc SA2) on Alignment concerning 5G RG requirements and its remote management | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213261](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213261.zip) | China Mobile, Xiaomi, KPN, Futurewei, vivo, ZTE,CATT, Interdigital | New WID on supporting tactile and multi-modality communication services | WID new | Agreement |  |  |  |  |  |  |  |
| [S1-213262](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213262.zip) | Qualcomm | New WID: Requirements on Vehicle-mounted relays | other | information |  |  |  |  |  |  |  |
| [S1-213263](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213263.zip) | vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo, | New WID on PIN + Resident Service requirements | WID new | Agreement |  |  |  |  |  |  |  |
| [S1-213264](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213264.zip) | Siemens, Huawei, Harting, Mercedes-Benz | New work item on service exposure for industrial automation | other | information |  |  |  |  |  |  |  |
| [S1-213265](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213265.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: addition to QoS monitoring requirements | CR | agreement | 22.261 | 542 | 1 | B | 18.3.0 | Rel-18 | EXPOSE |
| [S1-213266](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213266.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: correction of a QoS monitoring requirement | CR | agreement | 22.261 | 543 | 1 | F | 18.3.0 | Rel-18 | EXPOSE |
| [S1-213267](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213267.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: addition of position accuracy | CR | agreement | 22.261 | 544 | 1 | B | 18.3.0 | Rel-18 | EXPOSE |
| [S1-213268](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213268.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | New WID on MPS when access to EPC/5GC is WLAN | WID new | Agreement |  |  |  |  |  |  |  |
| [S1-213269](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213269.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | MPS when access to EPC/5GC is WLAN | CR | agreement | 22.153 | 49 | 1 | B | 17.2.0 | Rel-18 | MPS\_WLAN |
| [S1-213270](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213270.zip) | Samsung, FirstNet, AT&T, Ericsson, Kontron, Motorola Solutions, Nokia, Nokia | New WID on supporting Ad Hoc Group Communication in Mission Critical | WID new | Agreement |  |  |  |  |  |  |  |
| [S1-213271](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213271.zip) | FirstNet, Samsung, Ericsson, Kontron Transportation France, UIC | Ad hoc group call requirements | CR | agreement | 22.280 | 148 | 1 | B | 17.6.0 | Rel-18 | AHGC |
| [S1-213272](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213272.zip) | Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc. | Clarification of requirements for clock synchronization with direct device connection and indirect network connection communication | CR | agreement | 22.104 | 84 | 1 | F | 18.1.0 | Rel-18 | TEI18, eCAV |
| [S1-213273](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213273.zip) | Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell | Clarification of NPN in 22.261 | CR | agreement | 22.261 | 518 | 3 | F | 18.3.0 | Rel-18 | TEI18, AVPROD |
| [S1-213274](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213274.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: editorial improvement of a QoS monitoring requirement | CR | agreement | 22.261 | 541 | 1 | A | 18.3.0 | Rel-18 | eCAV |
| [S1-213275](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213275.zip) | Siemens | Quality improvement: update of reference to IEEE 802.1AS | CR | agreement | 22.104 | 76 | 1 | D | 17.6.0 | Rel-17 | eCAV |
| [S1-213276](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213276.zip) | Siemens | Quality improvement: update of reference to IEEE 802.1AS | CR | agreement | 22.104 | 77 | 2 | A | 18.1.0 | Rel-18 | eCAV |
| [S1-213277](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213277.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliability definition | CR | agreement | 22.261 | 554 | 1 | F | 15.8.0 | Rel-15 | SMARTER |
| [S1-213278](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213278.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | agreement | 22.261 | 555 | 1 | A | 16.14.0 | Rel-16 | SMARTER |
| [S1-213279](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213279.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | agreement | 22.261 | 556 | 1 | A | 17.7.0 | Rel-17 | SMARTER |
| [S1-213280](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213280.zip) | SA WG 1 | LS to SA WG 6, SA WG 3 on [DRAFT] Reply LS pertaining to new SID on Application Enablement for | LS out | agreement |  |  |  |  |  |  |  |
| [S1-213281](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213281.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | agreement | 22.261 | 557 | 1 | A | 18.3.0 | Rel-18 | SMARTER |
| [S1-213282](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213282.zip) | ETRI | Editorial corrections for references, abbreviations and clauses 6.36, 8.10 and 9.3 | CR | agreement | 22.261 | 567 | 1 | D | 18.3.0 | Rel-18 | TEI18 |
| [S1-213283](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213283.zip) | Apple | Correction of 'air interface' terminology | CR | agreement | 22.261 | 571 | 1 | A | 18.3.0 | Rel-18 | TEI17 |
| [S1-213284](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213284.zip) | China Mobile, Huawei, Deutsche Telekom | Evolution of IMS Multimedia Telephony Service | CR | agreement | 22.261 | 549 | 1 | B | 18.3.0 | Rel-18 | eMMTEL |
| [S1-213285](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213285.zip) | BDBOS, Home Office | Sharing administrative configuration between Mission Critical Organizations | CR | agreement | 22.280 | 146 | 1 | B | 17.6.0 | Rel-18 | SACI\_MCS |
| [S1-213286](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213286.zip) | Kyonggi University | Update of Section 3 (definitions) | other | information |  |  |  |  |  |  |  |
| [S1-213287](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213287.zip) | Kyonggi University | Transportation convenience service for the passengers for the reduced mobility | other | information |  |  |  |  |  |  |  |
| [S1-213288](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213288.zip) | OPPO | FS\_AMMT update to Functional requirements for AMMT services | CR | agreement | 22.874 | 1 | 1 | B | 18.0.1 | Rel-18 | AMMT |
| [S1-213289](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213289.zip) | OPPO | FS\_AMMT update to clause 7.4 Group performance Flocking Use Case | CR | agreement | 22.874 | 2 | 1 | B | 18.0.1 | Rel-18 | AMMT |
| [S1-213290](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213290.zip) | OPPO | Adding requirements for AMMT | CR | agreement | 22.261 | 551 | 1 | B | 18.3.0 | Rel-18 | AMMT |
| [S1-213291](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213291.zip) | OPPO | CR22.261v18.3.0 Adding performance requirements for AMMT | CR | agreement | 22.261 | 552 | 1 | B | 18.3.0 | Rel-18 | AMMT |
| [S1-213292](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213292.zip) | Korea Railroad Research Institute (KRRI) | Updates to Virtual coupling use case | other | information |  |  |  |  |  |  |  |
| [S1-213293](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213293.zip) | Korea Railroad Research Institute (KRRI) | Updates to Autonomous train control and operation use case | other | information |  |  |  |  |  |  |  |
| [S1-213294](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213294.zip) | UIC | Updates to Conclusion and Recommendations clause | other | information |  |  |  |  |  |  |  |
| [S1-213295](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213295.zip) | Huawei, China Telecom, CEPRI | Update Consolidated PR in Section 7 | CR | agreement | 22.867 | 16 | 1 | B | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-213296](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213296.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Introduction of Smart Energy Infrastructure Requirements | CR | agreement | 22.104 | 78 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213297](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213297.zip) | Samsung, China Telecom, ZTE, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Inclusion of Smart Energy Infrastructure Requirements | CR | agreement | 22.104 | 87 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213298](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213298.zip) | ZTE, China Telecom, CEPRI, Samsung | Annex for smart grid | CR | agreement | 22.104 | 80 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213299](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213299.zip) | China Telecom, ZTE, CEPRI, Samsung | Introduction of SEI KPIs | CR | agreement | 22.104 | 82 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213300](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213300.zip) | Siemens | Adjusting scope clause in TS 22.104 to the specification s content | CR | agreement | 22.104 | 83 | 1 | D | 18.1.0 | Rel-18 | SEI |
| [S1-213301](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213301.zip) | China Telecom, CEPRI-China, China Southern Power Grid, ZTE, Huawei, Samsung, China Mobile, China Unicom, CATT | Introduce of Smart Grid service | CR | agreement | 22.261 | 550 | 1 | B | 18.3.0 | Rel-18 | SEI |
| [S1-213302](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213302.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Introduction of Smart Energy Infrastructure Requirements | CR | agreement | 22.261 | 547 | 1 | B | 18.3.0 | Rel-18 | SEI |
| [S1-213303](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213303.zip) | Samsung, China Telecom, ZTE, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Inclusion of Smart Energy Infrastructure Requirements | CR | agreement | 22.261 | 577 | 1 | B | 18.3.0 | Rel-18 | SEI |
| [S1-213304](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213304.zip) | InterDigital | Requirements on PIN element discovery restriction | CR | agreement | 22.859 | 1 | 3 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-213305](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213305.zip) | InterDigital | Addition of consolidated requirements for use case on PIN element discovery restriction | CR | agreement | 22.859 | 17 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-213306](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213306.zip) | Philips International B.V. | UE requesting to be added to a PIN | CR | agreement | 22.859 | 18 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-213307](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213307.zip) | KPN | 5G LAN related rquirements from FS\_Resident | CR | agreement | 22.261 | 533 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213308](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213308.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates definitions and abbreviations | CR | agreement | 22.261 | 535 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213309](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213309.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates general introduction | CR | agreement | 22.261 | 536 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213310](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213310.zip) | KPN, vivo Mobile Communications Co. LTD, Nokia, Nokia Shanghai Bell, InterDigital | Pirates requirements | CR | agreement | 22.261 | 539 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213311](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213311.zip) | Qualcomm, InterDigital, Kyonggi University, Samsung, Charter Communications, Futurewei, Ericsson, Intel | Updating PALS Consolidated Potential Requirements | CR | agreement | 22.844 | 3 | 4 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-213312](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213312.zip) | QUALCOMM | FS\_PALS TR Cleanup | CR | agreement | 22.844 | 8 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-213313](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213313.zip) | Qualcomm, Kyonggi University, Samsung, InterDigital, Futurewei, Charter Communications, Ericsson, Intel | Introducing PALS Normative Requirements | CR | agreement | 22.261 | 560 | 1 | B | 18.3.0 | Rel-18 | PALS |
| [S1-213314](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213314.zip) | Xiaomi | Updated FS\_VMR consolidated requirements | other | information |  |  |  |  |  |  |  |
| [S1-213315](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213315.zip) | Qualcomm, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, | Removing ENs from consolidated requirements | other | information |  |  |  |  |  |  |  |
| [S1-213316](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213316.zip) | Samsung, FirstNet, Police of the Netherlands, UIC, CATT, Qualcomm, Thales, | 22.839 P-CR: Satellite support for vehicular mobile relays | other | information |  |  |  |  |  |  |  |
| [S1-213317](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213317.zip) | Samsung, FirstNet, Police of the Netherlands, UIC, Qualcomm, EUTC | 22.839 P-CR: Coverage Extension Consolidated Requirement | other | information |  |  |  |  |  |  |  |
| [S1-213318](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213318.zip) | Qualcomm, Firstnet, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI, Samsung | Introduction of VMR requirements | CR | agreement | 22.261 | 568 | 1 | B | 18.3.0 | Rel-18 | VMR |
| [S1-213319](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213319.zip) | UIC | Changes to Critical Support Applications Inviting-a-FRMCS User to a voice communication use case to support Interworking with GSM-R | CR | agreement | 22.989 | 4 | 1 | C | 18.1.0 | Rel-18 | FS\_eFRMCS |
| [S1-213320](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213320.zip) | UIC | Changes to Critical Support Applications Multiuser talker control use case to support configurable initial talker permission | CR | agreement | 22.989 | 6 | 1 | C | 18.1.0 | Rel-18 | FS\_eFRMCS |
| [S1-213321](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213321.zip) | vivo | Clarification on the handling of non publicly available references | other | information |  |  |  |  |  |  |  |
| [S1-213322](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213322.zip) | InterDigital | FS\_TACMM: Update on definition of Multi-modality Data | other | information |  |  |  |  |  |  |  |
| [S1-213323](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213323.zip) | InterDigital | FS\_TACMM: Improved text on multi-modality input and output | other | information |  |  |  |  |  |  |  |
| [S1-213324](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213324.zip) | Huawei | pCR to update clause 5.1 | other | information |  |  |  |  |  |  |  |
| [S1-213325](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213325.zip) | vivo | Usecase 5.5 Update: Addition of multi-path | other | information |  |  |  |  |  |  |  |
| [S1-213326](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213326.zip) | InterDigital | FS\_TACMM: Resolving the Editor s Notes on the use case Haptic feedback | other | information |  |  |  |  |  |  |  |
| [S1-213327](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213327.zip) | China Mobile | pCR on updating KPI table and requirements of Immersive VR games use case | pCR | agreement |  |  |  |  |  |  |  |
| [S1-213328](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213328.zip) | China Mobile | pCR on updating KPI table of remote control robot use case | pCR | agreement |  |  |  |  |  |  |  |
| [S1-213329](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213329.zip) | Deutsche Telekom, Charter Communications, China Telecom, KDDI, KPN, Orange, Telecom Italia, Vodafone, Convida Wireless, Ericsson, IDEMIA, InterDigital, LG Electronics, Philips, Thales, vivo Mobile Communications Co. LTD | Signal level Enhanced Network Selection | CR | agreement | 22.011 | 322 | 4 | B | 17.3.0 | Rel-18 | SENSE |
| [S1-213330](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213330.zip) | Xiaomi | Update to KPIs to 5G system with satellite access for support control and/or video surveillance | CR | agreement | 22.261 | 519 | 2 | B | 18.3.0 | Rel-18 | SCVS |
| [S1-213331](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213331.zip) | China Mobile | Support multiple non-public networks access and corresponding simultaneous services for a UE | CR | agreement | 22.261 | 564 | 1 | B | 18.3.0 | Rel-18 | TEI18 |
| [S1-213332](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213332.zip) | Lenovo, Motorola Mobility | Miscellaneous corrections from CR implementation | CR | agreement | 22.261 | 546 | 1 | D | 18.3.0 | Rel-18 | TEI18 |
| [S1-213333](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213333.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | Fallback in 5GS | CR | agreement | 22.153 | 50 | 1 | B | 17.2.0 | Rel-18 | TEI18 |
| [S1-213334](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213334.zip) | China Mobile | pCR on consolidated requirements of FS\_TACMM | pCR | agreement | [22.847](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [FS\_TACMM](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) |
| [S1-213335](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213335.zip) | Apple | Summary of CRs correcting the term air interface | Discussion | Discussion |  |  |  |  |  |  |  |

## Annex B: List of agreed change requests (sorted by TS then CR#)

Agreed CRs (sorted by Spec, CR#)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tdoc # | Source | Title | Type | Spec | CR# | r | cat | Version in | Rel | WI |
| [S1-213329](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213329.zip) | Deutsche Telekom, Charter Communications, China Telecom, KDDI, KPN, Orange, Telecom Italia, Vodafone, Convida Wireless, Ericsson, IDEMIA, InterDigital, LG Electronics, Philips, Thales, vivo Mobile Communications Co. LTD | Signal level Enhanced Network Selection | CR | 22.011 | 322 | 4 | B | 17.3.0 | Rel-18 | SENSE |
| [S1-213147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213147.zip) | Apple | Correction of 'air interface' terminology | CR | [22.011](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=566) | 324 |  | D | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213254](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213254.zip) | China Telecom, Huawei, HiSilicon, ZTE Corporation, CATT, Deutsche Telekom | Handling of emergency numbers in non-public networks | CR | 22.101 | 574 | 1 | F | 17.3.0 | Rel-17 | TEI17 |
| [S1-213255](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213255.zip) | China Telecom, Huawei, HiSilicon, ZTE Corporation, CATT, Deutsche Telekom | Handling of emergency numbers in non-public networks | CR | 22.101 | 575 | 1 | A | 18.1.1 | Rel-18 | TEI17 |
| [S1-213146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213146.zip) | Apple | Correction of 'air interface' terminology | CR | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 576 |  | D | 18.1.1 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213150.zip) | Apple | Correction of 'air interface' terminology | CR | [22.101](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=605) | 577 |  | D | 17.3.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213275](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213275.zip) | Siemens | Quality improvement: update of reference to IEEE 802.1AS | CR | 22.104 | 76 | 1 | D | 17.6.0 | Rel-17 | eCAV |
| [S1-213276](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213276.zip) | Siemens | Quality improvement: update of reference to IEEE 802.1AS | CR | 22.104 | 77 | 2 | A | 18.1.0 | Rel-18 | eCAV |
| [S1-213296](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213296.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Introduction of Smart Energy Infrastructure Requirements | CR | 22.104 | 78 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213298](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213298.zip) | ZTE, China Telecom, CEPRI, Samsung | Annex for smart grid | CR | 22.104 | 80 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213299](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213299.zip) | China Telecom, ZTE, CEPRI, Samsung | Introduction of SEI KPIs | CR | 22.104 | 82 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213300](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213300.zip) | Siemens | Adjusting scope clause in TS 22.104 to the specification s content | CR | 22.104 | 83 | 1 | D | 18.1.0 | Rel-18 | SEI |
| [S1-213272](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213272.zip) | Nokia, Nokia Shanghai Bell, Qualcomm Technologies, Inc. | Clarification of requirements for clock synchronization with direct device connection and indirect network connection communication | CR | 22.104 | 84 | 1 | F | 18.1.0 | Rel-18 | TEI18, eCAV |
| [S1-213297](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213297.zip) | Samsung, China Telecom, ZTE, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Inclusion of Smart Energy Infrastructure Requirements | CR | 22.104 | 87 | 1 | B | 18.1.0 | Rel-18 | SEI |
| [S1-213257](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213257.zip) | ETRI, China Unicom | UAS terminology alignment | CR | 22.125 | 36 | 1 | D | 17.3.0 | Rel-17 | ID\_UAS, EAV |
| [S1-213269](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213269.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | MPS when access to EPC/5GC is WLAN | CR | 22.153 | 49 | 1 | B | 17.2.0 | Rel-18 | MPS\_WLAN |
| [S1-213333](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213333.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | Fallback in 5GS | CR | 22.153 | 50 | 1 | B | 17.2.0 | Rel-18 | TEI18 |
| [S1-213273](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213273.zip) | Philips International B.V., Sennheiser, Novamint, Vivo Mobile Communications Co. LTD, Futurewei, Siemens AG, Nokia, Nokia Shanghai Bell | Clarification of NPN in 22.261 | CR | 22.261 | 518 | 3 | F | 18.3.0 | Rel-18 | TEI18, AVPROD |
| [S1-213330](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213330.zip) | Xiaomi | Update to KPIs to 5G system with satellite access for support control and/or video surveillance | CR | 22.261 | 519 | 2 | B | 18.3.0 | Rel-18 | SCVS |
| [S1-213307](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213307.zip) | KPN | 5G LAN related rquirements from FS\_Resident | CR | 22.261 | 533 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213013](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213013.zip) | KPN | Application Server related requirements from FS\_Resident | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 534 |  | C | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [DUMMY](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=699999) |
| [S1-213308](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213308.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates definitions and abbreviations | CR | 22.261 | 535 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213309](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213309.zip) | KPN, vivo Mobile Communications Co. LTD | Pirates general introduction | CR | 22.261 | 536 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213310](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213310.zip) | KPN, vivo Mobile Communications Co. LTD, Nokia, Nokia Shanghai Bell, InterDigital | Pirates requirements | CR | 22.261 | 539 | 1 | B | 18.3.0 | Rel-18 | Pirates |
| [S1-213274](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213274.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: editorial improvement of a QoS monitoring requirement | CR | 22.261 | 541 | 1 | A | 18.3.0 | Rel-18 | eCAV |
| [S1-213265](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213265.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: addition to QoS monitoring requirements | CR | 22.261 | 542 | 1 | B | 18.3.0 | Rel-18 | EXPOSE |
| [S1-213266](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213266.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: correction of a QoS monitoring requirement | CR | 22.261 | 543 | 1 | F | 18.3.0 | Rel-18 | EXPOSE |
| [S1-213267](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213267.zip) | Siemens, Harting, Mercedes-Benz | EXPOSE: addition of position accuracy | CR | 22.261 | 544 | 1 | B | 18.3.0 | Rel-18 | EXPOSE |
| [S1-213332](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213332.zip) | Lenovo, Motorola Mobility | Miscellaneous corrections from CR implementation | CR | 22.261 | 546 | 1 | D | 18.3.0 | Rel-18 | TEI18 |
| [S1-213302](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213302.zip) | Samsung, EUTC, China Telecom, ZTE, Vodafone, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Introduction of Smart Energy Infrastructure Requirements | CR | 22.261 | 547 | 1 | B | 18.3.0 | Rel-18 | SEI |
| [S1-213284](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213284.zip) | China Mobile, Huawei, Deutsche Telekom | Evolution of IMS Multimedia Telephony Service | CR | 22.261 | 549 | 1 | B | 18.3.0 | Rel-18 | eMMTEL |
| [S1-213301](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213301.zip) | China Telecom, CEPRI-China, China Southern Power Grid, ZTE, Huawei, Samsung, China Mobile, China Unicom, CATT | Introduce of Smart Grid service | CR | 22.261 | 550 | 1 | B | 18.3.0 | Rel-18 | SEI |
| [S1-213290](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213290.zip) | OPPO | Adding requirements for AMMT | CR | 22.261 | 551 | 1 | B | 18.3.0 | Rel-18 | AMMT |
| [S1-213291](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213291.zip) | OPPO | CR22.261v18.3.0 Adding performance requirements for AMMT | CR | 22.261 | 552 | 1 | B | 18.3.0 | Rel-18 | AMMT |
| [S1-213277](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213277.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliability definition | CR | 22.261 | 554 | 1 | F | 15.8.0 | Rel-15 | SMARTER |
| [S1-213278](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213278.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | 22.261 | 555 | 1 | A | 16.14.0 | Rel-16 | SMARTER |
| [S1-213279](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213279.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | 22.261 | 556 | 1 | A | 17.7.0 | Rel-17 | SMARTER |
| [S1-213281](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213281.zip) | Nokia, Nokia Shanghai Bell, Futurewei | Correction to Reliabilty definition | CR | 22.261 | 557 | 1 | A | 18.3.0 | Rel-18 | SMARTER |
| [S1-213251](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213251.zip) | NTT DOCOMO | Removal of user intervention on services exempted from release due to SOR | CR | 22.261 | 558 | 1 | F | 17.7.0 | Rel-17 | eCPSOR\_CON |
| [S1-213252](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213252.zip) | NTT DOCOMO | Removal of user intervention on services exempted from release due to SOR | CR | 22.261 | 559 | 1 | A | 18.3.0 | Rel-18 | eCPSOR\_CON |
| [S1-213313](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213313.zip) | Qualcomm, Kyonggi University, Samsung, InterDigital, Futurewei, Charter Communications, Ericsson, Intel | Introducing PALS Normative Requirements | CR | 22.261 | 560 | 1 | B | 18.3.0 | Rel-18 | PALS |
| [S1-213331](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213331.zip) | China Mobile | Support multiple non-public networks access and corresponding simultaneous services for a UE | CR | 22.261 | 564 | 1 | B | 18.3.0 | Rel-18 | TEI18 |
| [S1-213118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213118.zip) | Samsung, EUTC, China Telecom, Vodafone | Addition of requirements for Confidentiality in 5GS | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 565 |  | B | 18.3.0 | [Rel-18](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [SMARTER](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=720005) |
| [S1-213124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213124.zip) | ETRI | Reference correction | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 566 |  | D | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213282](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213282.zip) | ETRI | Editorial corrections for references, abbreviations and clauses 6.36, 8.10 and 9.3 | CR | 22.261 | 567 | 1 | D | 18.3.0 | Rel-18 | TEI18 |
| [S1-213318](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213318.zip) | Qualcomm, Firstnet, SyncTechno Inc., Philips B.V., Lenovo, Motorola Mobility, Bosch, AT&T, InterDigital, Verizon UK Ltd, vivo Mobile Communications Ltd, Telstra, DENSO Corporation, ETRI, Samsung | Introduction of VMR requirements | CR | 22.261 | 568 | 1 | B | 18.3.0 | Rel-18 | VMR |
| [S1-213283](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213283.zip) | Apple | Correction of 'air interface' terminology | CR | 22.261 | 571 | 1 | A | 18.3.0 | Rel-18 | TEI17 |
| [S1-213149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213149.zip) | Apple | Correction of 'air interface' terminology | CR | [22.261](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3107) | 572 |  | D | 17.7.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [TEI17](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850047) |
| [S1-213258](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213258.zip) | ETRI, China Unicom | UAS terminology alignment | CR | 22.261 | 575 | 1 | D | 17.7.0 | Rel-17 | ID\_UAS, EAV |
| [S1-213259](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213259.zip) | ETRI, China Unicom | UAS terminology alignment | CR | 22.261 | 576 | 1 | A | 18.3.0 | Rel-18 | ID\_UAS, EAV |
| [S1-213303](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213303.zip) | Samsung, China Telecom, ZTE, Huawei, NOVAMINT, Nokia, Nokia Shanghai Bell, Anterix | Inclusion of Smart Energy Infrastructure Requirements | CR | 22.261 | 577 | 1 | B | 18.3.0 | Rel-18 | SEI |
| [S1-213213](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213213.zip) | Siemens, Harting, Mercedes-Benz | Editorial improvement of a QoS monitoring requirement | CR | 22.261 | 578 |  | D | 17.7.0 | Rel-17 | eCAV |
| [S1-213209](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213209.zip) | Convida Wireless | MSGin5G store-and-forward modifications | CR | 22.262 | 1 | 1 | F | 16.0.0 | Rel-17 | MSGin5G |
| [S1-213285](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213285.zip) | BDBOS, Home Office | Sharing administrative configuration between Mission Critical Organizations | CR | 22.280 | 146 | 1 | B | 17.6.0 | Rel-18 | SACI\_MCS |
| [S1-213031](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213031.zip) | BDBOS | Correction - Adding missing requirements into tables in the normative Annexes | CR | [22.280](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3017) | 147 |  | F | 17.6.0 | [Rel-17](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [MONASTERY2](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=760054) |
| [S1-213271](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213271.zip) | FirstNet, Samsung, Ericsson, Kontron Transportation France, UIC | Ad hoc group call requirements | CR | 22.280 | 148 | 1 | B | 17.6.0 | Rel-18 | AHGC |
| [S1-213311](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213311.zip) | Qualcomm, InterDigital, Kyonggi University, Samsung, Charter Communications, Futurewei, Ericsson, Intel | Updating PALS Consolidated Potential Requirements | CR | 22.844 | 3 | 4 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-213312](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213312.zip) | QUALCOMM | FS\_PALS TR Cleanup | CR | 22.844 | 8 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-213304](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213304.zip) | InterDigital | Requirements on PIN element discovery restriction | CR | 22.859 | 1 | 3 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-213305](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213305.zip) | InterDigital | Addition of consolidated requirements for use case on PIN element discovery restriction | CR | 22.859 | 17 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-213306](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213306.zip) | Philips International B.V. | UE requesting to be added to a PIN | CR | 22.859 | 18 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-213295](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213295.zip) | Huawei, China Telecom, CEPRI | Update Consolidated PR in Section 7 | CR | 22.867 | 16 | 1 | B | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-213288](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213288.zip) | OPPO | FS\_AMMT update to Functional requirements for AMMT services | CR | 22.874 | 1 | 1 | B | 18.0.1 | Rel-18 | AMMT |
| [S1-213289](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213289.zip) | OPPO | FS\_AMMT update to clause 7.4 Group performance Flocking Use Case | CR | 22.874 | 2 | 1 | B | 18.0.1 | Rel-18 | AMMT |
| [S1-213319](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213319.zip) | UIC | Changes to Critical Support Applications Inviting-a-FRMCS User to a voice communication use case to support Interworking with GSM-R | CR | 22.989 | 4 | 1 | C | 18.1.0 | Rel-18 | FS\_eFRMCS |
| [S1-213320](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213320.zip) | UIC | Changes to Critical Support Applications Multiuser talker control use case to support configurable initial talker permission | CR | 22.989 | 6 | 1 | C | 18.1.0 | Rel-18 | FS\_eFRMCS |

## Annex C: Lists of liaisons

Approved outgoing LSs

|  |  |  |
| --- | --- | --- |
| Tdoc # | Source | Title |
| [S1-213120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213120.zip) | SA1 | LS to CT1 (cc SA2, SA3, RAN2, RAN3, SA, CT, RAN) on support of PWS over SNPN |
| [S1-213208](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213208.zip) | SA1 | LS response to SA6 on MSGin5G store-and-forward clarifications |
| [S1-213210](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213210.zip) | SA1 | LS to ICAO (cc SA) on LS on Non-territorial emergency or distress call (Note: To be sent to SA who will send it outside 3GPP) |
| [S1-213211](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213174.zip) | SA1 | LS to RAN1, SA3 (cc SA3-LI) on Reply LS on broadcast of NTN GW or gNB position |
| [S1-213250](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213250.zip) | SA1 | LS to GSMA 5GJA, 3GPP CT1 on Reply LS on Steering of Roaming regarding handling of SOR-CMCI |
| [S1-213253](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213253.zip) | SA1 | LS to CT1 (cc SA2) on Reply LS on emergency services in an SNPN |
| [S1-213256](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213256.zip) | SA1 | LS to 3GPP TSG SA (cc SA3, SA6, SA2) on Reply LS on UAS terminology alignment |
| [S1-213260](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213260.zip) | SA1 | Reply LS to BBF Technical Committee Chair (cc SA2) on Alignment concerning 5G RG requirements and its remote management |
| [S1-213280](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213280.zip) | SA1 | LS to SA6, SA on new SID on Application Enablement |

## Annex D: List of agreed/approved new and revised Work Items

Agreed new WIDs

|  |  |  |
| --- | --- | --- |
| Tdoc # | Source | Title |
| [S1-213261](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213261.zip) | China Mobile, Xiaomi, KPN, Futurewei, vivo, ZTE,CATT, Interdigital | New WID on supporting tactile and multi-modality communication services |
| [S1-213262](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213262.zip) | Qualcomm | New WID: Requirements on Vehicle-mounted relays |
| [S1-213263](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213263.zip) | vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo, | New WID on PIN + Resident Service requirements |
| [S1-213264](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213264.zip) | Siemens, Huawei, Harting, Mercedes-Benz | New work item on service exposure for industrial automation |
| [S1-213268](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213268.zip) | Peraton Labs, CISA ECD, AT&T, T-Mobile US, Verizon | New WID on MPS when access to EPC/5GC is WLAN |
| [S1-213270](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_95e_EM_August2021/Docs/S1-213270.zip) | Samsung, FirstNet, AT&T, Ericsson, Kontron, Motorola Solutions, Nokia, Nokia | New WID on supporting Ad Hoc Group Communication in Mission Critical |

## Annex E: Registered Participants list

|  |  |  |  |
| --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Organization Represented |
| Dr. | Ahn | Woojin | KRRI |
| Mr. | Ai | Ming | CATT |
| Mr. | Aleksiev | Vasil | T-Mobile Austria GmbH |
| Ing. | Almodovar Chico | Jose Luis | KPN N.V. |
| Mr. | Arreaga | Arturo | Rogers Communications Canada |
| Mr. | audebert | vincent | EDF Recherche et Développement |
| Dr. | Awoniyi-Oteri | Olufunmilola | Qualcomm Incorporated |
| Dr. | Baboescu | Florin | BROADCOM CORPORATION |
| Mr. | Bahr | Michael | Siemens AG |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility UK Ltd. |
| Ing. | Beicht | Peter | Kontron Transportation France |
| Mr. | Berisot | Thierry | NOVAMINT |
| Mr. | Bischinger | Kurt | Deutsche Telekom AG |
| Mr. | Bleckert | Peter | Ericsson LM |
| Mr. | Buckley | Adrian | vivo Mobile Com. (Chongqing) |
| Mr. | BYUN | ILMU | KRRI |
| Ms. | Camacho | Cristina | Vodafone Italia SpA |
| Ms. | CHAKRABARTI | SAMITA | Verizon Denmark |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Electronics |
| Dr. | Chan | Yee Sin | Facebook |
| Mr. | Chang | Jaehyun | LG Uplus |
| Mr. | Chen | Dong | Xiaomi Communications |
| Mr. | Chen | Jingran | OnePlus |
| Dr. | Chen | Sun | Sony Group Corporation |
| Ms. | Chen | Zhuoyi | China Telecom Corporation Ltd. |
| Dr. | Chitrapu | Prabhakar | Lockheed Martin |
| Mr. | Choi | Hyung-Nam | Motorola Mobility UK Ltd. |
| Prof. | Choi | Sang Won | Kyonggi University |
| Mr. | Chuberre | Nicolas | THALES |
| Dr. | Cogalan | Tezcan | InterDigital, Europe, Ltd. |
| Ms. | Covell | Betsy | Nokia UK |
| Mr. | Cui | Shengjiang | Guangdong OPPO Mobile Telecom. |
| Mr. | Cui | Tao | Sony Europe B.V. |
| Mrs. | Das | Shashi | Lockheed Martin |
| Mr. | Dees | Walter | Philips International B.V. |
| Mrs. | Demers | Stephanie | Peraton Labs |
| Mr. | DUAN | XIAOMENG | CEPRI |
| Mr. | Edwards | Robert | Matrixx |
| Mr. | Elamanov | Sherzod | SyncTechno Inc. |
| Dr. | Falk | Rainer | Siemens AG |
| Mr. | Gach | Guillaume | Union Inter. Chemins de Fer |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. |
| Dr. | Ghassemian | Mona | InterDigital, Europe, Ltd. |
| Mr. | Gray | Jeffrey | OTD |
| Mr. | Guirguis | Ihab | FirstNet |
| Mr. | Guttman | Erik | Samsung R&D Institute UK |
| Mr. | Hall | Edward | Huawei Technologies Sweden AB |
| Prof. | Han | Andrew Min-gyu | Hansung University |
| Mr. | Haojin | Li | Sony Corporation |
| Mr. | Harper | Colby | Pivotal Commware |
| Mr. | Harper | Colby | Pivotal Commware |
| Mr. | Honma | Keita | Kyocera Corporation |
| Mr. | Howell | Andrew | NCSC |
| Miss | Hu | Yue | China Mobile Com. Corporation |
| Mr. | Janky | William | FirstNet |
| Dr. | Jiang | Tianji | China Mobile Com. Corporation |
| Mr. | Jiang | Yi | China Mobile International Ltd |
| Dr. | Jones | William | MITRE Corporation |
| Ms. | Kang | Yanchao | vivo Communication Technology |
| Ms. | Kim | Eunah | ETRI |
| Dr. | Kim | Hyunsook | LG Electronics Inc. |
| Dr. | Kim | Joonwoong | SK Telecom |
| Dr. | Kim | Laeyoung | LG Electronics Inc. |
| Dr. | Kim | Youn-Kwan | SyncTechno Inc. |
| Mr. | Kito | Takatsugu | KDDI Corporation |
| Ms. | Koo | Hyounhee | SyncTechno Inc. |
| Dr. | Koulakiotis | Dimitris | Sony Europe B.V. |
| Mr. | Kuchibhotla | Ravi | Lenovo (Beijing) Ltd |
| Dr. | Kueh | Victor | HUAWEI Technologies Japan K.K. |
| Dr. | Kunzmann | Gerald | Nokia Japan |
| Mr. | Lazara | Dominic | Motorola Solutions Danmark A/S |
| Dr. | Lee | Ki-Dong | LG Electronics Inc. |
| Mr. | Lee | Youn-Tai | III |
| Mr. | Lei | Yu | Xiaomi Technology |
| Dr. | Li | Alice | Huawei Technologies R&D UK |
| Mr. | Li | Haojin | Sony Europe B.V. |
| Mr. | li | leimin | Commsat |
| Ms. | LI | PEI | China Unicom |
| Ms. | Li | Yan | China Telecomunication Corp. |
| Miss | li | yuan | China Mobile Com. Corporation |
| Dr. | Liao | Ellen C. | Intel |
| Mr. | Libunao | Gerardo | Verizon UK Ltd |
| Mr. | Lindheimer | Christofer | Ericsson LM |
| Mr. | Lipsky | Jeff | U.S. Department of Defense |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech |
| Ms. | Loidl | Karin | Fraunhofer IIS |
| Mr. | Lönnblad | Daniel | Ericsson LM |
| Mr. | Lottin | Philippe | Orange UK |
| Mr. | Luft | Achim | IPCom GmbH & Co.KG |
| Dr. | LV | Ling | Quectel |
| Mr. | Ly | Quang | Convida Wireless |
| Mr. | Martin | Jesus | TELEFONICA S.A. |
| Mr. | Mayer | Georg | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Mellies | Renaud | MINISTERE DE L'INTERIEUR |
| Mr. | Merkel | Jürgen | Nokia Germany |
| Mr. | Minokuchi | Atsushi | NTT DOCOMO INC. |
| Mr. | Miyamoto | Yoshihiro | NEC Corporation |
| Mr. | Monrad | Atle | InterDigital Communications |
| Mr. | muhammad | awn | Rakuten Mobile, Inc |
| Dr. | Mustapha | Mona | Apple France |
| Mr. | Mysore Annaiah | Mahesh Nayaka | Reliance Jio |
| Mr. | NAKAMURA | Kazuo | NICT |
| Mr. | Nakano | Yusuke | KDDI Corporation |
| Mr. | Nakatogawa | Tsuyoshi | NHK |
| Mr. | Nanjunda Swamy | Satish | Reliance Jio |
| Mr. | Niang | Mamadou M. | Verizon Spain |
| Mr. | Norp | Toon | TNO |
| Mr. | Norton | Mark | U.S. Department of Defense |
| Mr. | Olbrich | Emil | Anterix |
| Mr. | Olechna | Edward | MITRE Corporation |
| Mr. | Patry | Frank | Omnispace |
| Mr. | Phan | Ly-Thanh | THALES |
| Mr. | Pica | Francesco | Qualcomm Incorporated |
| Mr. | Pozo | Sergio | Vodafone España SA |
| Mr. | Prakash | Rajat | Qualcomm Incorporated |
| Mr. | Prochaska | Dean | FirstNet |
| Miss | Qi | Wen | China Telecommunications |
| Mr. | Qin | Pengtai | China Mobile Com. Corporation |
| Mr. | Ram | Vishnu | TSDSI |
| Mr. | Ramamoorthy | Arunprasath | Samsung R&D Institute India |
| Mr. | Ramanan | Sivasubramaniam | HOME OFFICE |
| Dr. | Ray | Sankar | AT&T |
| Mr. | Ren | Chi | China Unicom |
| Mr. | Ruffini | Stefano | Ericsson LM |
| Mr. | RUI | NI | Xiaomi Technology |
| Mr. | Saboorian | Tony | Futurewei Technologies |
| Mr. | Saha | Anindya | Saankhya Labs |
| Mr. | Sällberg | Krister | Nanjing Ericsson Panda Com Ltd |
| Mr. | Sanders | Peter | one2many B.V. |
| Dr. | Sarathchandra | Chathura | InterDigital, Europe, Ltd. |
| Dr. | Savaglio | Frank | Telstra Corporation Limited |
| Dr. | Scarrone | Enrico | TELECOM ITALIA S.p.A. |
| Mr. | Schumacher | Greg | T-Mobile USA |
| Dr. | Shao | Xiao | TOYOTA MOTOR CORPORATION |
| Mr. | Sharma | Ashish S | Fraunhofer HHI |
| Mr. | Shen | Jia | Chengdu OPPO Mobile Com. corp. |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Software |
| Ms. | Shi | Xiaonan | China Mobile Com. Corporation |
| Mr. | Shi | Xiaoyan | InterDigital, Inc. |
| Dr. | SHI | Zhihua | Beijing OPPO Com. corp., ltd |
| Mr. | SIM | Dong-Hi | SK Telecom |
| Mr. | Singh | Ray | Peraton Labs |
| Mr. | Su | Jinxi | Guangdong OPPO Mobile Telecom. |
| Mr. | Sultan | Alain | ETSI |
| Mr. | Takada | Terufumi | DENSO CORPORATION |
| Dr. | Tech | Gerhard | Fraunhofer HHI |
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| Mrs. | Thorpe-Taylor | Carol-lyn | CISA ECD |
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