**3GPP TSG-SA WG1 Meeting #94bis-e S1-2130xx**

**Electronic Meeting, 5 -12 July 2021**

**Draft Minutes of**

**3GPP TSG SA WG1   
Meeting #94e-bis**

Electronic Meeting

5 -12 July 2021

Chairman: Jose Almodovar, TNO

Meeting Secretary: Alain Sultan, ETSI/MCC

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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 #94bis of 3GPP SA1 took place from the 5th till the 12th of July 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 of the e-meeting for Sunday 4th of July at 11PM UTC. He then "verbally welcomed" all the delegates at the occasion of the beginning of the first conference call, on Tuesday 6th July 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

[S1-212002](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212002.zip) from Chair & ETSI MCC: ***Guidelines for SA1#94bis*** (other)

***Conclusion:*** Noted

## 1.2 Agenda and scheduling

[S1-212000](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212000.zip) from Chair: ***Draft agenda for SA1#94bis*** (agenda)

***Conclusion:*** Agreed

[S1-212001](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212001.zip) from Chair: ***Agenda for SA1#94bis*** (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

[S1-212096](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212096.zip) from ETSI MCC: ***Minutes of SA1#94e*** (Report)

***Conclusion:*** Revised to [S1-212098](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212098.zip)

[S1-212098](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212098.zip) from ETSI MCC: ***Final minutes*** (Report)

***Discussion:***  Revision of [S1-212096](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212096.zip).

***Conclusion:***  Agreed

## 1.5 Information for delegates

[S1-212003](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212003.zip) from ETSI MCC: ***MCC info on CR Rules*** (other)

***Conclusion:*** Noted

[S1-212009](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212009.zip) from ETSI MCC: ***MCC reminder on some editing rules for writing a CR*** (other)

***Conclusion:*** Endorsed

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:

<ftp://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/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 Rel18 contributions

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

Work status prior to this meeting:

Rapporteur: XIA Xu (China Telecom)

Latest version: TR22.867v18.0.1

Target completion date: SA#92 (06/2021)

Percentage completion: 90%

[S1-212064](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212064.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***RAN Information reporting for Utilities: Rationale and Application*** (discussion)

***Summary:*** This discussion document presents the rationale and experience using RAN information to correlate with performance in order to predict and proactively avoid potential performance degradation incidents. Troubleshooting an incident with this data is also improved. Endorsement is sought to address existing editor’s notes in TR 22.867, 5.7.

***Conclusion:*** Noted

[S1-212010](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212010.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi: ***Addressing EN resolution for “timely” term meaning*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0002 cat D v.18.0.1, [**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))

***Discussion:***  2010r1 agreed

***Conclusion:*** Revised to [S1-212102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212102.zip)

[S1-212102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212102.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi: ***Addressing EN resolution for timely term meaning*** (CR to 22.867 #0002r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2010r1 Revision of [S1-212010](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212010.zip).

***Conclusion:***  Agreed

[S1-212011](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212011.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell: ***Addressing EN resolution for standard use cases in 5.7.1*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0003 cat D v.18.0.1, [**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))

***Discussion:***  2011r1 agreed

Conclusion: Revised to [S1-212103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212103.zip)

[S1-212103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212103.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi: ***Addressing EN resolution for standard use cases in 5.7.1*** (CR to 22.867 #0003r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2011r1 Revision of [S1-212011](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212011.zip).

***Conclusion:***  Agreed

[S1-212012](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212012.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell: ***Addressing EN resolution for RAN parameters in 5.7.1*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0004 cat D v.18.0.1, [**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))

***Discussion:***  2012r1 agreed

Conclusion: Revised to [S1-212104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212104.zip)

[S1-212104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212104.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom: ***Addressing EN resolution for RAN parameters in 5.7.1*** (CR to 22.867 #0004r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2012r1 Revision of [S1-212012](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212012.zip).

***Conclusion:***  Agreed

[S1-212013](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212013.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell: ***Addressing EN resolution in clause 5.7.5*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0005 cat D v.18.0.1, [**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))

***Discussion:***  2013r1 agreed

Conclusion: Revised to [S1-212105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212105.zip)

[S1-212105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212105.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi: ***Addressing EN resolution in clause 5.7.5*** (CR to 22.867 #0005r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2013r1 Revision of [S1-212013](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212013.zip).

***Conclusion:***  Agreed

[S1-212014](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212014.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell: ***Addressing EN resolution in clause 5.7.2*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0006 cat D v.18.0.1, [**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))

***Discussion:***  2014r1 agreed

Conclusion: Revised to [S1-212106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212106.zip)

[S1-212106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212106.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi: ***Addressing EN resolution in clause 5.7.2*** (CR to 22.867 #0006r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2014r1 Revision of [S1-212014](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212014.zip).

***Conclusion:***  Agreed

[S1-212015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212015.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell: ***Addressing EN resolution in clause 5.7.6*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0007 cat F v.18.0.1, [**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))

***Conclusion:*** Revised to [S1-212084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212084.zip)

[S1-212084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212084.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE: ***Addressing EN resolution in clause 5.7.6*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0007r1 cat F v.18.0.1, [**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:*** Revision of [S1-212015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212015.zip) to include all supporters

***Discussion:*** Revision of [S1-212015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212015.zip).

***Conclusion:***  Revised to [S1-212085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212085.zip)

[S1-212085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212085.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE: ***Addressing EN resolution in clause 5.7.6*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0007r2 cat F v.18.0.1, [**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:*** Revised yet again from [S1-212084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212084.zip) to fix the header (revision of CR missing in the revised tdoc)

***Discussion:***  Revision of [S1-212084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212084.zip).

2085r1 agreed

***Conclusion:*** Revised to [S1-212107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212107.zip)

[S1-212107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212107.zip) from EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE: ***Addressing EN resolution in clause 5.7.6*** (CR to 22.867 #0007r3 cat F v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2085r1 Revision of [S1-212085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212085.zip).

***Conclusion:***  Agreed

[S1-212066](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212066.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***Resolution of Editor’s Notes from Clause 5.5.6*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0012 cat F v.18.0.1, [**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:*** The editor's note is removed - some requirements move to 5.5.5 from 5.5.6. The requirement from 5.5.6 is added to the KPI table in 7.2. The table's styles are corrected.

***Conclusion:*** Agreed

[S1-212065](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212065.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***USIM Events requirements – discussion and proposal*** (discussion)

***Summary:*** In TR 22.867, 5.7, a problem and associated requirement related to USIM related events was added. This must be revisited for clarity.

***Conclusion:*** Noted

[S1-212067](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212067.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***USIM Related Requirements for Manageability*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0013 cat F v.18.0.1, [**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:*** The current text in 5.7 for the potential requirement [PR.5.7.6-008] and consolidated potential requirement [CPR 008] are not clear. The actual requirements implied by the use case are already supported by the system.

***Conclusion:*** Agreed

[S1-212068](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212068.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***Removal of Editor’s Notes from Clause 5.11*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0014 cat D v.18.0.1, [**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:*** An unnecessary Editor’s Note remains.

***Discussion:***  20681 agreed

***Conclusion:*** Revised to [S1-212108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212108.zip)

[S1-212108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212108.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***Removal of Editor s Notes from Clause 5.11*** (CR to 22.867 #0014r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2068r1 Revision of [S1-212068](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212068.zip).

***Conclusion:***  Agreed

[S1-212069](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212069.zip) from Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint: ***Removal of Editor’s Note in Annex A*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0015 cat D v.18.0.1, [**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:*** There is an unnecessary Editor’s Note in Annex A.

***Conclusion:*** Agreed

[S1-212060](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212060.zip) from China Telecomunication Corp.: ***Editorial Updates to TR22.867*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0011 cat F v.18.0.1, [**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 contribution provides quality improvement for the TR 22.867

***Discussion:*** Should be Cat D

***Conclusion:*** Revised to [S1-212109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212109.zip)

[S1-212109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212109.zip) from China Telecom, China Southern Power Grid, CEPRI, ZTE: ***Editorial Updates to TR22.867*** (CR to 22.867 #0011r1 cat D v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2060r3 Revision of [S1-212060](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212060.zip).

***Conclusion:***  Agreed

[S1-212008](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212008.zip) from Samsung Electronics GmbH: ***Manageability Consolidated Requirements Editor's Note Resolution*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0001 cat F v.18.0.1, [**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:*** Requirements from Clause 5.7 still have editor's notes in the consolidated requirements clause - this CR resolves them.

***Discussion:***  F 2008r3 agreed ( Based on operator policy, in req 5, fixing the date)

***Conclusion:***  Revised to [S1-212110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212110.zip)

[S1-212110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212110.zip) from EUTC, Samsung, Vodafone, Telefonica, BMWi, EDF, Novamint: ***Addressing EN resolution in 7.1*** (CR to 22.867 #0001r1 cat B v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2008r3 agreed Revision of [S1-212008](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212008.zip).

***Conclusion:***  Agreed

[S1-212018](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212018.zip) from ZTE, China Telecom, CEPRI: ***Update Consolidated PR and KPI tables in Section 7*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0008 cat F v.18.0.1, [**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))

***Discussion:***  Mistakes in the Cover page

***Conclusion:*** Revised to [S1-212111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212111.zip)

[S1-212111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212111.zip) from ZTE, China Telecom, CEPRI: ***Update Consolidated PR and KPI tables in Section 7*** (CR to 22.867 #0008r1 cat F v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2018r5 Revision of [S1-212018](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212018.zip).

***Conclusion:***  Agreed

[S1-212039](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212039.zip) from China Telecomunication Corp.: ***Update to conclusion and recommendations*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0009 cat B v.18.0.1, [**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 contribution provides text for the conclusion of the SEI study.

***Discussion:***  Mistakes in the Cover page, cannot be D

***Conclusion:*** Revised to [S1-212112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212112.zip)

[S1-212112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212112.zip) from China Telecom, China Southern Power Grid, CEPRI, ZTE, Samsung, Huawei: ***Update to conclusion and recommendation*** (CR to 22.867 #0009r1 cat F v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2039r4 Revision of [S1-212039](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212039.zip).

***Conclusion:***  Agreed

[S1-212059](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212059.zip) from CEPRI,China Telecom, ZTE: ***Security considerations*** (CR to [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) #0010 cat B v.18.0.1, [**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))

***Discussion:***  Mistakes in the Cover page

Agreed as rev10.

***Conclusion:***  Revised to [S1-212113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212113.zip)

[S1-212113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212113.zip) from CEPRI，China Telecom, ZTE, HuaWei: ***Security considerations*** (CR to 22.867 #0010r1 cat B v.18.0.1, Rel-18, WID: FS\_5GSEI)

***Discussion:***  Same as 2059r10 Revision of [S1-212059](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212059.zip).

***Conclusion:***  Agreed

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

Work status prior to this meeting:

Rapporteur: Toon Norp (KPN)

Latest version: TR22.858v18.0.1

Target completion date: SA#92 (06/2021)

Percentage completion: 85%

[S1-212046](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212046.zip) from KPN N.V.: ***Editorial changes to TR*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0010 cat D v.18.0.1, [**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))

***Conclusion:*** Agreed

[S1-212044](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212044.zip) from KPN N.V.: ***Consistent usage of definition “Authorised Administrator”*** ( CR)

***Discussion:***  Should be category D.

SA1 agreed not to tick any "affected part of the system" for category D.

CR rev should not be incremented for draft versions (for all KPN docs).

Still some typos in rev2.

Agreed as rev3.

***Conclusion:***  Revised to [S1-212114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212114.zip)

[S1-212114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212114.zip) from KPN: ***Consistent usage of definition Authorised Administrator*** (CR to 22.858 #0008r1 cat D v.18.0.1, Rel-18, WID: FS\_RESIDENT)

***Discussion:***  Same as 2044r3 Revision of [S1-212044](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212044.zip).

***Conclusion:***  Agreed

[S1-212045](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212045.zip) from KPN N.V.: ***Change residential network to CPN*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0009 cat C v.18.0.1, [**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:***  CR coverpage not correct.

***Conclusion:***  Agreed

[S1-212043](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212043.zip) from KPN N.V.: ***Hybrid access in definitions*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0007 cat C v.18.0.1, [**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:***  CR coverpage not correct. "W-AGF" could be changed on the figure.

***Conclusion:***  Revised to [S1-212115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212115.zip)

[S1-212115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212115.zip) from KPN: ***Hybrid access in definitions*** (CR to 22.858 #0007r1 cat C v.18.0.1, Rel-18, WID: FS\_RESIDENT)

***Discussion:***  Same as 2043r2 Revision of [S1-212043](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212043.zip).

***Conclusion:***  Agreed

[S1-212092](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212092.zip) from Philips International B.V.: ***Clarification on PRAS connectivity*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0023 cat F v.18.0.1, [**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:***  "NOTE" not in Note style and tab missing.

Huawei objects to adding the Note, since for them, the Annex A is self-consistent and do not need to be called by the main part. Otherwise it has to be done for all other Annexes too. And the note duplicate the text of the Annex. Nokia share this view.

***Conclusion:***  Noted

[S1-212021](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212021.zip) from China Telecomunication Corp.: ***CR22. 858 V2.0.0 Clause5.5 routing via residential ip network*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0003 cat F v.18.0.1, [**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))

***Summary:*** update the PR related to local ip routing within the CPN

***Discussion:*** title is wrong - should not start with "CR22. 858 V2.0.0 "

r3: changes on changes to remove.

Agreed as rev4.

***Conclusion:***  Revised to [S1-212116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212116.zip)

[S1-212116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212116.zip) from China Telecom: ***Clause5.5 routing via residential IP network*** (CR to 22.858 #0003r1 cat C v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2021r4 Revision of [S1-212021](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212021.zip).

***Conclusion:***  Agreed

[S1-212032](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212032.zip) from China Unicom: ***FS\_Resident remove [PR. 5.4.6-001] and the accompanying EN*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0005 cat F v.18.0.1, [**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))

***Summary:*** change of 5G system support efficient routing for data traffic behind Evolved Residential Gateway

***Discussion:*** Missing CR number on the coverpage.

Several formatting problem.

***Conclusion:***  Revised to [S1-212117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212117.zip)

[S1-212117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212117.zip) from China Unicom: ***Alignment and clarification of PR5.4.6-001*** (CR to 22.858 #0005r1 cat C v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2032r6 Revision of [S1-212032](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212032.zip).

***Conclusion:***  Agreed

[S1-212094](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212094.zip) from Philips International B.V.: ***Clarification of QoS between two UEs*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0025 cat B v.18.0.1, [**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:***  2094r3.

For Huawei, this requirement is not needed, but they do not object.

Agreed as rev3.

***Conclusion:***  Revised to [S1-212151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212151.zip)

b[S1-212151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212151.zip) from Philips International B.V.: ***Clarification of QoS between two UEs*** (CR to 22.858 #0025r1 cat B v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2094r3. Revision of [S1-212094](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212094.zip).

***Conclusion:***  Agreed.

[S1-212004](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212004.zip) from Apple: ***FS\_Resident: Clarification of Loss of 5GC connectivity requirements*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0001 cat C v.18.0.1, [**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:***  For Huawei, [PR. 5.17.6-003] is too detailed as for the CPN mechanisms, and there might be interferences with other requirements.

For Deutsche Telekom, there are too many details which are not relevant. Only "the radio interface being deactivated" is the key point.

For Apple, it is important that SA1 continues to define the system's behaviour. How it is implemented is for Stages 2 and 3.

***Conclusion:***  Revised to [S1-212118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212118.zip)

[S1-212118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212118.zip) from Apple: ***FS\_Resident: Clarification of Loss of 5GC connectivity requirements*** (CR to 22.858 #0001r1 cat C v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2004r9 Revision of [S1-212004](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212004.zip).

***Conclusion:***  Agreed

[S1-212017](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212017.zip) from Intel: ***Update Use Case 5.21 for PRAS*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0002 cat B v.18.0.1, [**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))

***Summary:*** Resolve Editor's note and new aspects

***Discussion:*** 2017r7.

The baseline text is wrong.

Only the impacted section is to be kept.

Further edited while projecting.

Huawei proposed to add "NOTE: The PRAS identity associated with the subscription can be identified with 3GPP identity.", but this is not acceptable by Nokia without further clarifying the note.

As a compromise, an Editor's note is added.

R8

***Conclusion:*** Revised to [S1-212119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212119.zip)

[S1-212119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212119.zip) from Intel: ***Update Use Case 5.21 for PRAS*** (CR to 22.858 #0002r1 cat B v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2017r8 Revision of [S1-212017](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212017.zip).

***Conclusion:***  Agreed

[S1-212054](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212054.zip) from KPN N.V.: ***Update of use case 5.2 use of 3GPP credentials*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0017 cat B v.18.0.1, [**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:***  2054r2 agreed

***Conclusion:*** Revised to [S1-212120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212120.zip)

[S1-212120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212120.zip) from KPN N.V.: ***Update of use case 5.2 use of 3GPP credentials*** (CR to 22.858 #0017r1 cat B v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2054r2 Revision of [S1-212054](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212054.zip).

***Conclusion:***  Agreed

[S1-212055](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212055.zip) from KPN N.V.: ***Update use case 5.3 on service continuity between CPN and public network*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0018 cat B v.18.0.1, [**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:***  Rev1 pre-agreed

***Conclusion:*** Revised to [S1-212121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212121.zip)

[S1-212121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212121.zip) from KPN N.V.: ***Update use case 5.3 on service continuity between CPN and public network*** (CR to 22.858 #0018r1 cat B v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2055r1 Revision of [S1-212055](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212055.zip).

***Conclusion:***  Agreed

[S1-212075](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212075.zip) from Huawei: ***FS\_Resident Correction of clause 5.10.1*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0020 cat D v.18.0.1, [**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:***  Rev3: Missing CR number

For InterDigital, it should be cat F

Clauses affected missing

***Conclusion:*** Revised to [S1-212122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212122.zip)

[S1-212122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212122.zip) from Huawei: ***FS\_Resident Correction of clause 5.10*** (CR to 22.858 #0020r1 cat F v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  code FS\_Resident Rel-18 CRXXXXR- Cat D Same as 2075r4 Revision of [S1-212075](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212075.zip).

***Conclusion:***  Agreed

[S1-212076](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212076.zip) from Huawei: ***FS\_Resident Correction of clause 5.11.1*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0021 cat D v.18.0.1, [**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:***  Rev1: Missing CR number

In the new figure, the PRAS is necessarily connected to the eNG and cannot be connected directly to the CN.

Interdigital proposes another way of showing the figure. This other figure is not agreeable for Huawei.

A compromise is that Path 1 goes through another eRG and another AN (and the same CN).

Clauses affected missing

***Conclusion:*** Revised to [S1-212123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212123.zip)

[S1-212123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212123.zip) from Huawei: ***FS\_Resident Correction of clause 5.11.1*** (CR to 22.858 #0021r1 cat F v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2076r3 Revision of [S1-212076](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212076.zip).

***Conclusion:***  Agreed

[S1-212077](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212077.zip) from Huawei: ***FS\_Resident Correction of clause 5.12.1*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0022 cat D v.18.0.1, [**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:***  Missing CR number

Clauses affected missing

No consensus (concerns from Vivo, Interdigital)

***Conclusion:***  Noted

[S1-212093](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212093.zip) from Philips International B.V.: ***Clarification of PRAS provisioning*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0024 cat B v.18.0.1, [**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:***  Rev1: new requirement removed. Nokia wonder if it makes sense to keep the other changes. Nokia need more time to review.

Agreed as rev1.

***Conclusion:***  Revised to [S1-212124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212124.zip)

[S1-212124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212124.zip) from Philips International B.V.: ***Clarification of PRAS configuration*** (CR to 22.858 #0024r1 cat B v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2093r2 Revision of [S1-212093](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212093.zip).

***Conclusion:***  Agreed

[S1-212047](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212047.zip) from KPN N.V.: ***Remove Editor's Note and add Note on requirements E2E QoS Monitoring*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0011 cat C v.18.0.1, [**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:***  For Huawei, the note is not needed since it is already covered by the requirement. This is agreeable, so only the Editor's note is deleted (but not add a Note).

Should be cat D.

Title to be changed accordingly

***Conclusion:*** Revised to [S1-212125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212125.zip)

[S1-212125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212125.zip) from KPN: ***Remove Editor s Note on requirements E2E QoS Monitoring.*** ( CR)

***Discussion:***  Same as 2047r1 Revision of [S1-212047](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212047.zip).

***Conclusion:***  Agreed

[S1-212048](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212048.zip) from KPN N.V.: ***Remote Editor's Notes on requirements consolidation*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0012 cat D v.18.0.1, [**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))

***Conclusion:*** Agreed

[S1-212049](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212049.zip) from KPN N.V.: ***Removing editor's note on rephrasing requirements*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0013 cat D v.18.0.1, [**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))

***Conclusion:*** Agreed

[S1-212050](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212050.zip) from KPN N.V.: ***Remove Editor’s Notes in Use Case 5.16 - 5G LAN with fixed IP VPN*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0014 cat D v.18.0.1, [**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:***  More discussions needed.

Agreed as rev1.

Final tdoc: only the impacted clauses should be shown.

***Conclusion:***  Revised to [S1-212126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212126.zip)

[S1-212126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212126.zip) from KPN: ***Remove Editor s Notes on requirement 5G LAN with fixed IP VPN*** (CR to 22.858 #0014r1 cat D v.18.0.1, Rel-18, WID: FS\_RESIDENT)

***Discussion:***  Same as 2050r1 Revision of [S1-212050](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212050.zip).

***Conclusion:***  Agreed

[S1-212051](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212051.zip) from KPN N.V.: ***Remove Editor’s Notes in 5.18 on requirements Control by Authorised Adminstrator*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0015 cat C v.18.0.1, [**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))

***Conclusion:*** Agreed

[S1-212053](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212053.zip) from KPN N.V.: ***Remove Editor’s Note in 5.22 on requirements external services behind eRG in CPN*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0016 cat D v.18.0.1, [**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))

***Conclusion:*** Agreed

[S1-212022](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212022.zip) from InterDigital: ***New use case on enabling minimum user interaction for a relocated evolved residential gateway*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0004 cat B v.18.0.1, [**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:***  Rev2: this is not seen as needed by Deutsche Telekom, Nokia, Ericsson. This is already covered.

Vivo support this paper.

***Conclusion:*** Noted

[S1-212063](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212063.zip) from InterDigital: ***Use case on supporting inter-connection between CPNs in different networks*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0019 cat B v.18.0.1, [**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:***  Rev1: no need for this, according to Nokia and Huawei. This is also already covered. The use of the color scheme is not clear, for Huawei.

***Conclusion:***  Noted

[S1-212041](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212041.zip) from KPN N.V.: ***Resident consolidation discussion document*** (discussion)

***Summary:*** This is the latest version of the discussion document on requirements consolidation. It is based on the results of the telephone call, plus rapporteur/KPN taking into account remaining comments.

***Conclusion:*** Noted

[S1-212042](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212042.zip) from KPN N.V.: ***Resident requirements consolidation 22.858CR*** (CR to [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) #0006 cat C v.18.0.1, [**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:***  2042r6.

In CPR 7.4-1: printer bullet to be modified

CPR 7.6.6 to be split in 2 requirements.

In 7.2-2, there is a preference on the alternative text.

CPR 7.9-6 is out, the alternatives are preferred for 7.9.1 to 5, with removal of the examples for 7.9.4 and 7.9.5.

In CPR 7.10-1, Qualcomm commented that " any 5G services to any 5G UE" is odd, but they do not object.

"5G UE" to be replaced by "UE" in CPR 7.10-1 and CPR 7.10-2.

Rev7 agreed.

***Conclusion:***  Revised to [S1-212127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212127.zip)

[S1-212127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212127.zip) from KPN: ***Consolidation of Resident requirements*** (CR to 22.858 #0006r1 cat C v.18.0.1, Rel-18, WID: FS\_Resident)

***Discussion:***  Same as 2042r7 Revision of [S1-212042](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212042.zip).

***Conclusion:***  Agreed

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

Work status prior to this meeting:

Rapporteur: Adrian Buckley (Vivo)

Latest version: TR22.859 v18.0.1

Target completion date: SA#92 (06/2021)

Percentage completion: 90%

[S1-212031](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212031.zip) from vivo Mobile Com. (Chongqing): ***Editorials*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0008 cat D v.18.0.1, [**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:*** Agreed

[S1-212024](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212024.zip) from vivo Mobile Com. (Chongqing): ***PIN Element definition update and abbreviations added*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0002 cat F v.18.0.1, [**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:***  2024r02

***Conclusion:*** Revised to [S1-212128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212128.zip)

[S1-212128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212128.zip) from vivo Mobile Com. (Chongqing): ***PIN Element definition update and abbreviations added*** (CR to 22.859 #0002r1 cat F v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2024r02 Revision of [S1-212024](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212024.zip).

***Conclusion:***  Agreed

[S1-212091](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212091.zip) from Philips International B.V.: ***PIN definition update*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0014 cat F v.18.0.1, [**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:***  More discussions needed. The definition of the "PIN Element"might also be impacted.

Still concerns on the latest version.

***Conclusion:***  Noted

[S1-212020](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212020.zip) from InterDigital: ***Requirements on PIN element discovery restriction*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0001 cat B v.18.0.1, [**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:***  2020r11

***Conclusion:*** Revised to [S1-212129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212129.zip)

[S1-212129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212129.zip) from InterDigital: ***Requirements on PIN element discovery restriction*** (CR to 22.859 #0001r1 cat B v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2020r12 Revision of [S1-212020](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212020.zip).

***Conclusion:***  Agreed

[S1-212025](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212025.zip) from vivo Mobile Com. (Chongqing): ***Usecase 5:4 & 5.7: Update existing requirements section*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0003 cat B v.18.0.1, [**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:***  Rev1: Format problems (comments remaining)

***Conclusion:***  Revised to [S1-212130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212130.zip)

[S1-212130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212130.zip) from vivo Mobile Com. (Chongqing): ***Usecase 5:4 & 5.7: Update existing requirements section*** (CR to 22.859 #0003r1 cat B v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2130r2 Revision of [S1-212025](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212025.zip).

***Conclusion:***  Agreed

[S1-212030](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212030.zip) from Intel: ***Clarification for potential requirements of UCs 5.3, 5.5, 5.8, 5.9*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0007 cat B v.18.0.1, [**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:***  Rev5: kept open.

R6: 5.5.6 not agreeable for Nokia.

All the rest to be kept in rev7.

***Conclusion:***  Revised to [S1-212131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212131.zip)

[S1-212131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212131.zip) from Intel, vivo Mobile Communications Co. LTD: ***Clarification for potential requirements of UCs 5.3, 5.9*** (CR to 22.859 #0007r1 cat B v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2030r7 Revision of [S1-212030](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212030.zip).

***Conclusion:***  Agreed

[S1-212072](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212072.zip) from Huawei Technologies Sweden AB: ***Addition of potential requirements on PIN Element identity and discovery of PIN Elemenet identity*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0009 cat C v.18.0.1, [**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:*** 1) Modifies [PR.5.1.5-10] to reflect that the PIN discovery mechanism will need to dicover the identity of the target PIN Element as well as the other conditions. 2) Add new PR [PR.5.1.5-11] to reflect the exisiting pre-condition that a PIN Element with Management Coapability might need to know a unique identifier for a PIN Element within a PIN.

***Discussion:***  No MS comments to be used.

Qualcomm sees the requirement as borderline-Stage 2.

Rev2: last req should not be indented

Conclusion: Revised to [S1-212132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212132.zip)

[S1-212132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212132.zip) from Huawei, Huawei Devices: ***Addition of potential requirements on PIN and PIN Element identity and discovery of PIN Element identity*** (CR to 22.859 #0009r1 cat C v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2072r3 Revision of [S1-212072](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212072.zip).

***Conclusion:***  Agreed

[S1-212074](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212074.zip) from Huawei Technologies Sweden AB: ***Addition of potential requirement on PIN identity*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0010 cat C v.18.0.1, [**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:*** 1) Modifies pre-conditions to add that each PIN needs to be uniquely identifiable. 2) Add new PR [PR.5.1.5-11] to reflect the pre-condition that each PIN needs to be uniquely identifiable, and given the global nature of device roaming, this uniqueness needs to be global.

***Discussion:***  A requirement is added to state that "a PIN shall have a globally unique identity".

Nokia, Futurwei and vivo fully support this contribution, while Qualcomm, Sony and BMWi see it as Stage 2.

The text can be rewritten to make it less "Stage 2".

2072 and 2074 are going to be merged.

Qualcomm would have liked to have it directly in the consolidated requirement but it is preferred to keep it separate for visibility reasons.

***Conclusion:***  Merge into 2072r1

[S1-212087](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212087.zip) from Philips International B.V.: ***Device discovery clarification*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0011 cat B v.18.0.1, [**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:***  Rev1: wrong styles

Rev24: still concerns from Nokia, still several formatting problems

***Conclusion:*** Noted

[S1-212088](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212088.zip) from Philips International B.V.: ***Clarification of 22.101 requirement*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0012 cat B v.18.0.1, [**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:***  Rev1: several formal problems, added text unclear

Rev3: agreeable, non-impacted clauses to be removed

Agreed as rev4.

***Conclusion:***  Revised to [S1-212133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212133.zip)

[S1-212133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212133.zip) from Philips International B.V., Deutsche Telekom AG: ***Providing credentials via gateway UE*** (CR to 22.859 #0012r1 cat B v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2088r4 Revision of [S1-212088](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212088.zip).

***Conclusion:***  Agreed

[S1-212090](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212090.zip) from Philips International B.V., Futurewei, vivo Mobile Communications Co. LTD: ***Clarifying subscription aspects*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0013 cat F v.18.0.1, [**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:***  Rev1: the proposed added Note is seen unclear to Nokia. Agreed to delete it.

Rev4: the " the PIN-User and/or the authorized 3rd party" to be changed by " an authorized party".

Agreed as rev5.

***Conclusion:***  Revised to [S1-212134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212134.zip)

[S1-212134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212134.zip) from Philips International B.V., Futurewei, vivo Mobile Communications Co. LTD: ***Clarifying subscription aspects*** (CR to 22.859 #0013r1 cat F v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2090r5 Revision of [S1-212090](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212090.zip).

***Conclusion:***  Agreed

[S1-212026](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212026.zip) from vivo Mobile Com. (Chongqing): ***Conclusions*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0004 cat B v.18.0.1, [**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:*** Agreed

[S1-212027](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212027.zip) from vivo Mobile Com. (Chongqing): ***Requirements consolidation - part 1*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0005 cat B v.18.0.1, [**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:***  2027r08: " status, availability and reachability" to be replaced by " availability and reachability"

In 7.9, " PIN identifier" has to be changed to "PIN identification"

Plus 2028r04 + added note to be included.

***Conclusion:***  Revised to [S1-212135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212135.zip)

[S1-212135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212135.zip) from vivo Mobile Com. (Chongqing): ***Requirements consolidation - part 1*** (CR to 22.859 #0005r1 cat B v.18.0.1, Rel-18, WID: FS\_PIN)

***Discussion:***  Same as 2027r09 Revision of [S1-212027](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212027.zip).

***Conclusion:***  Agreed

[S1-212028](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212028.zip) from vivo Mobile Com. (Chongqing): ***Requirements consolidation - part 2*** (CR to [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) #0006 cat B v.18.0.1, [**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:***  2028r04.

Nokia do not support this CPR but this can be solved in the normative phase.An Editor's note is added as a compromise.

To be merged into 2027rev08.

***Conclusion:***  Merge into 2027r09

## 2.4 FS\_PALS: Study on 5G Networks Providing Access to Localized Services [SP-200799]

Work status prior to this meeting:

Rapporteur: Jack Nasielski (Qualcomm)

Latest version: TR22.844 v18.0.1

Target completion date: SA#92 (06/2021)

Percentage completion: "93.3%"

[S1-212070](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212070.zip) from Charter Communications, Inc: ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** (discussion)

***Summary:*** 3rd-party service info advertised to UE with no prior subscription

***Conclusion:*** Noted

[S1-212016](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212016.zip) from Charter Communications, Inc: ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** (CR to [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #0001 cat F v.18.0.1, [**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:*** The hosting network access 3rd party service information for discovery, access and configuration shall be advertised to UE with no prior subscription

***Discussion:*** Rev4: Further edited while presenting.

More off-line discussions needed, in particular with LGE.

Rev8: no changes on changes, correct styles to be used, etc.

Agreed as rev9.

***Conclusion:***  Revised to [S1-212136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212136.zip)

[S1-212136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212136.zip) from Charter Communications, CableLabs, Futurewei Technologies, Lenovo, Motorola Mobility, Philips, Qualcomm, vivo Mobile Communications: ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** (CR to 22.844 #0001r1 cat F v.18.0.1, Rel-18, WID: FS\_PALS)

***Discussion:***  Same as 2016r9 Revision of [S1-212016](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212016.zip).

***Conclusion:***  Agreed

[S1-212019](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212019.zip) from Lenovo, Motorola Mobility: ***Miscellaneous corrections from pCR implementation*** (CR to [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #0002 cat F v.18.0.1, [**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:***  2019r1 pre-agreed

***Conclusion:*** Revised to [S1-212137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212137.zip)

[S1-212137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212137.zip) from Lenovo, Motorola Mobility: ***Miscellaneous corrections from pCR implementation*** (CR to 22.844 #0002r1 cat F v.18.0.1, Rel-18, WID: FS\_PALS)

***Discussion:***  Same as 2019r1 Revision of [S1-212019](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212019.zip).

***Conclusion:***  Agreed

[S1-212062](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212062.zip) from Samsung Electronics GmbH: ***Removal of Editor’s Note from Clause 5.10.5*** (CR to [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #0004 cat D v.18.0.1, [**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:*** An unnecessary Editor’s Note is removed by this CR.

***Conclusion:*** Agreed

[S1-212086](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212086.zip) from vivo Mobile Com. (Chongqing): ***Update of manual selection*** (CR to [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #0005 cat F v.18.0.1, [**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:***  2086r7: For Qualcomm, "receive human readable information" is a better way and should be kept. This is OK for the time being, and it will be improved for the consolidated requirement.

***Conclusion:***  Revised to [S1-212138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212138.zip)

[S1-212138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212138.zip) from vivo Mobile Com. (Chongqing): ***Update of manual selection*** (CR to 22.844 #0005r1 cat F v.18.0.1, Rel-18, WID: FS\_PALS)

***Discussion:***  Same as 2086r08 Revision of [S1-212086](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212086.zip).

***Conclusion:***  Agreed

[S1-212095](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212095.zip) from Philips International B.V.: ***Clarification of use case 5.15*** (CR to [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #0006 cat F v.18.0.1, [**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:***  2095r5: Qualcomm has issues on the changes on the Note. So the Note will not be changed.

Rev6 agreed.

***Conclusion:***  Revised to [S1-212139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212139.zip)

[S1-212139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212139.zip) from Philips International B.V.: ***Clarification of use case 5.15*** (CR to 22.844 #0006r1 cat F v.18.0.1, Rel-18, WID: FS\_PALS)

***Discussion:***  Same as 2095r6 Revision of [S1-212095](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212095.zip).

***Conclusion:***  Agreed

[S1-212037](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212037.zip) from Qualcomm Incorporated: ***Discussion on remaining consolidated requirements*** (discussion)

***Conclusion:*** Noted

[S1-212038](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212038.zip) from Qualcomm Incorporated: ***CR to update consolidated requirements*** (CR to [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) #0003 cat F v.18.0.1, [**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:***  2038r010: a neditor's note has to be added to [CPR 011] to say it is FFS.

The format of the numbering of the CPR is proposed to be changed, which is not agreeable to vivo.

The CPRs which have not been discussed (shown in grey) should not be added at this stage, not even as FFS.

About the table for Consolidation Summary (informative): this can be put as an annex. And the ones TBD have to be removed. The table is removed at this stage and will be added by another CR, as an annex, at a future meeting.

All this to be included in rev11.

Agreed as rev11.

***Conclusion:***  Revised to [S1-212150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212150.zip)

[S1-212150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212150.zip) from Qualcomm: ***Updating PALS Consolidated Requirements*** (CR to 22.844 #0003r1 cat F v.18.0.1, Rel-18, WID: FS\_PALS)

***Discussion:***  Same as 2038r11 Revision of [S1-212038](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212038.zip).

***Conclusion:***  Agreed

## 2.5 FS\_VMR: Study on vehicle-mounted relays [SP-200798]

Work status prior to this meeting:

Rapporteur: Francesco Pica (Qualcomm)

Latest version: TR22.839 v1.0.0

Target completion date: SA#93 (09/2021)

Percentage completion: 85%

[S1-212061](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212061.zip) from Samsung Electronics GmbH: ***22.839 P-CR: Clean up of use case 5.15*** (pCR)

***Summary:*** The use case for coverage extension has a superfluous FFS. This is removed.

***Conclusion:*** Agreed

[S1-212033](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212033.zip) from Qualcomm, Sony, InterDigital, AT&T, FIRSTNET, Verizon UK Ltd, ZTE: ***Proposal on consolidated requirements for FS\_VMR - Baseline*** (pCR)

***Conclusion:*** Noted

[S1-212034](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212034.zip) from Qualcomm Incorporated: ***Updated proposal on consolidated requirements*** (pCR)

***Discussion:***  2034r6: no consensus on CPR 008 so it has to be removed.

CPR 001: "(e.g. load balancing)" proposed by LG to be added at the end but this is not acceptable by Huawei.

In 002 and 003, the examples are proposed to be removed.

Upon Huawei's request, 004 to be removed. It can be re-introduced in the August meeting.

All CPRs which are not agreed should be removed rather than shown with square brackets.

012 to be removed too (linked to 004, on satellite).

013 and following: remove the square brackets.

013: editor's note to add it is FFS.

***Conclusion:***  Revised to [S1-212140](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212140.zip)

[S1-212140](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212140.zip) from Qualcomm: ***Updated proposal on consolidated requirements for FS\_VMR*** (pCR)

***Discussion:***  Same as 2034r7 Revision of [S1-212034](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212034.zip).

***Conclusion:***  Agreed

[S1-212035](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212035.zip) from Qualcomm Incorporated: ***TR conclusions*** (pCR)

***Discussion:***  ", e.g. mounted on a vehicle." To be removed. , The word "of" is missing.

Rev1 agreed.

***Conclusion:***  Revised to [S1-212141](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212141.zip)

[S1-212141](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212141.zip) from Qualcomm: ***Proposal for FS\_VMR TR conclusions*** (pCR)

***Discussion:***  Same as 2035r1 Revision of [S1-212035](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212035.zip).

***Conclusion:***  Agreed

[S1-212100](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212100.zip) from Rapporteur (Qualcomm): ***TR22.839 v1.1.0 to include agreements at this meeting*** (Draft TR)

***Discussion:***  First draft by Tue13th 23:00 UTC Comments till Thu15th 23:00UTC Final version by Fri16th 23:00UTC

***Conclusion:*** Agreed

## 2.6 FS\_TACMM: Study on supporting tactile and multi-modality communication services [SP-201039]

Work status prior to this meeting:

Rapporteur: Wang, Shuo (China Mobile)

Latest version: TR22.847 v0.2.0

Target completion date: SA#93 (09/2021)

Percentage completion: 40%

[S1-212078](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212078.zip) from China Mobile Com. Corporation: ***FS\_TACMM Concept discussion and way forward*** (discussion)

***Conclusion:*** Noted

[S1-212097](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212097.zip) from Chair: ***FS\_TACMM Discussion slides*** (Discussion)

***Summary:*** This presentation summurises the present status of the discussions of FS\_TACMM and the possible next steps.

***Conclusion:*** Noted

[S1-212005](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212005.zip) from InterDigital, Xiaomi, China Mobile: ***FS\_TACMM: Alignment of the scope with the SID*** (pCR)

***Discussion:***  Rev2: comments to be removed.

" ," to be removed after "network"

Rev3 agreed.

***Conclusion:***  Revised to [S1-212142](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212142.zip)

[S1-212142](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212142.zip) from InterDigital, Xiaomi, China Mobile, Huawei: ***FS\_TACMM: Alignment of the scope with the SID*** (pCR)

***Discussion:***  Same as 2005r3 Revision of [S1-212005](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212005.zip).

***Conclusion:***  Agreed

[S1-212006](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212006.zip) from InterDigital: ***FS\_TACMM: Resolving the Editor’s Notes on the use case Haptic feedback for a personal exclusion zone*** (pCR)

***Discussion:***  Rev5: no consensus on last day.

***Conclusion:***  Noted

[S1-212079](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212079.zip) from China Mobile Com. Corporation: ***FS\_TACMM Updating 5.1 use case of Immersive multi-modality VR application*** (pCR)

***Discussion:***  Rev4: typo on "bit/s" to be corrected.

Rev5 agreed.

***Conclusion:***  Revised to [S1-212143](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212143.zip)

[S1-212143](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212143.zip) from China Mobile, Huawei, LG Electronics: ***Updating 5.1 use case of Immersive multi-modality VR application*** (pCR)

***Discussion:***  Same as 2079r5 Revision of [S1-212079](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212079.zip).

***Conclusion:***  Agreed

[S1-212080](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212080.zip) from China Mobile Com. Corporation: ***FS\_TACMM Adding potential requirement of Immersive VR games*** (pCR)

***Discussion:***  2080r6: still some concerns from Nokia about the PRs. To be removed in the next rev.

***Conclusion:***  Revised to [S1-212144](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212144.zip)

[S1-212144](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212144.zip) from China Mobile: ***Adding potential requirement of Immersive VR games*** (pCR)

***Discussion:***  Same as 2080r7 Revision of [S1-212080](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212080.zip).

***Conclusion:***  Agreed

[S1-212058](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212058.zip) from Lenovo, Motorola Mobility: ***Editorial corrections to TR 22.847 v0.2.0*** (pCR)

***Conclusion:*** Agreed

[S1-212007](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212007.zip) from InterDigital, Telefónica: ***FS\_TACMM: New use case on Augmented robotic telepresence*** (pCR)

***Conclusion:*** Noted

[S1-212029](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212029.zip) from InterDigital: ***FS\_TACMM: New use case on haptic and multimodal feedback for precision training of elite athletes*** (pCR)

***Discussion:***  Agreed as rev4.

***Conclusion:***  Revised to [S1-212149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212149.zip)

[S1-212149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212149.zip) from InterDigital: ***FS\_TACMM: New use case on haptic and multimodal feedback for precision*** (pCR)

***Discussion:***  Same as 2029r4 Revision of [S1-212029](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212029.zip).

***Conclusion:***  Noted

[S1-212052](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212052.zip) from Beijing Xiaomi Mobile Software: ***TACMM\_Smart-Factory backup in Multi-modality Interaction System*** (discussion)

***Conclusion:*** Noted

[S1-212056](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212056.zip) from Beijing Xiaomi Software Tech: ***Multi-Modality service – motion control*** (pCR)

***Discussion:***  Rev7: several comments not incorporated in the last rev, so still concerns, in particular from Nokia and Siemmens.

***Conclusion:***  Noted

[S1-212057](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212057.zip) from Xiaomi: ***New Use Case Live Event Selective Immersion*** (pCR)

***Summary:*** This document proposes a new uses case on Live Event Selective Immersion and the related requirements.

***Discussion:***  Agreed as rev4.

***Conclusion:***  Revised to [S1-212145](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212145.zip)

[S1-212145](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212145.zip) from Xiaomi: ***New Use Case Live Event Selective Immersion*** (pCR)

***Discussion:***  Same as 2057r4 Revision of [S1-212057](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212057.zip).

***Conclusion:***  Agreed

[S1-212071](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212071.zip) from Xiaomi: ***TACMM New Use Case Smart-Factory backup in Multi-modality Interaction System*** (pCR)

***Summary:*** This document proposes a new uses case on Smart-Factory backup in Multi-modality Interaction System and the related requirements.

***Discussion:***  Still concerns (at least from LG) on the last day.

***Conclusion:***  Noted

[S1-212073](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212073.zip) from Huawei Technologies R&D UK: ***Use case “Support for IEEE P1918.1 architecture”*** ( pCR)

***Discussion:***  Agreed as rev2.

***Conclusion:***  Revised to [S1-212146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212146.zip)

[S1-212146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212146.zip) from Huawei, Hisilicon: ***Use case Support for IEEE P1918.1 architecture*** (pCR)

***Discussion:***  Same as 2073r2 Revision of [S1-212073](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212073.zip).

***Conclusion:***  Agreed

[S1-212081](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212081.zip) from China Mobile Com. Corporation: ***FS\_TACMM use case Smart Prosthesis and Its Safety Model*** (pCR)

***Discussion:***  Rev3: still no consensus

***Conclusion:*** Noted

[S1-212082](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212082.zip) from China Mobile Com. Corporation: ***FS\_TACMM use case Virtual Factory*** (pCR)

***Discussion:***  Rev1: some concerns from Nokia and Sony might not have been treated. China Mobile did answer, so maybe there was a problem with the server.

Editor's notes to be added in Rev2.

Agreed as rev2.

***Conclusion:***  Revised to [S1-212147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212147.zip)

[S1-212147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212147.zip) from China Mobile: ***Add use case for virtual factory*** (pCR)

***Discussion:***  Same as 2082r2 Revision of [S1-212082](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212082.zip).

***Conclusion:***  Agreed

[S1-212083](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212083.zip) from China Mobile Com. Corporation: ***FS\_TACMM use case Remote UAV control through HD video in First Person View*** (pCR)

***Discussion:***  Some e-mails were sent too short before the meeting to be readable by US, so Nokia has some concerns.

***Conclusion:***  Noted

[S1-212101](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212101.zip) from Rapporteur (China Mobile): ***TR22.847v0.3.0 to include agreements at this meeting*** (Draft TR)

***Discussion:***  First draft by Tue13th 23:00 UTC Comments till Thu15th 23:00UTC Final version by Fri16th 23:00UTC

***Conclusion:*** Agreed

# 3 New WIDs

[S1-212023](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212023.zip) from BDBOS, A.S.T.R.I.D. S.A., BMWi, Ericsson, FirstNet, Home Office, MINISTERE DE L'INTERIEUR, Netherlands Police, Norwegian Communications Authority, Suomen Erillisverkot Oy, UIC, ZITiS: ***Sharing administrative configuration between interconnected MCX Service systemscv*** (WID new)

***Conclusion:*** Agreed

[S1-212036](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212036.zip) from Qualcomm Incorporated: ***New WID on Vehicle Relays*** (WID new)

***Discussion:***  2036rev1: it is preferred to remove " relays backhaul using satellite access/backhaul"

China Unicom still has concerns, thinking that agreeing the WID now for normative work might affect the quality of the TR.

China Unicom has a sustained objection.

The WID can be used as a basis for next meeting.

The chair clarified that, even if the WID is not agreed at this meeting, normative work can be proposed at next meeting.

***Conclusion:***  Noted

[S1-212040](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212040.zip) from KPNN.V., vivo Mobile Communications Ltd: ***New WID on Personal IoT and Residential networks Service Requirements - PIRates*** (WID new)

***Discussion:***  Rev3: example to be changed

Agreed as rev4.

***Conclusion:***  Revised to [S1-212148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212148.zip)

[S1-212148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212148.zip) from vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo,: ***New WID on PIN + Resident Service requirements*** (WID new)

***Discussion:***  Same as 2040r4 Revision of [S1-212040](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212040.zip).

***Conclusion:***  Agreed

[S1-212089](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212089.zip) from KPN N.V.: ***Proposed structure for 22.261 section on Resident and PINs*** (discussion)

***Summary:*** The goal of this discussion document is to get some first endorsement of a structure for a normative section in 22.261 on Resident and PINs. If we can get some endorsement of a structure, this will greatly help generating the CRs for the August meeting. It is much more difficult to create CRs if there is no agreement on structure.

***Conclusion:*** Noted

# 4 Close

The chairman and ETSI MCC closed the meeting at 5:00 PM UTC on Tuesday 12 July 2021.

They thanked all the delegates for their work and their positive attitude.

# Annexes

## Annex A: List of contribution documents

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tdoc # | Source | ***Title*** | Type | Spec | CR# | r | cat | Version in | Rel | WI | Conclusion |
| [S1-212000](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212000.zip) | Chair | ***Draft agenda for SA1#94bis*** | agenda |  |  |  |  |  |  |  | Agreed |
| [S1-212001](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212001.zip) | Chair | ***Agenda for SA1#94bis*** | agenda |  |  |  |  |  |  |  | Agreed |
| [S1-212002](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212002.zip) | Chair & ETSI MCC | ***Guidelines for SA1#94bis*** | other |  |  |  |  |  |  |  | Noted |
| [S1-212003](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212003.zip) | ETSI MCC | ***MCC info on CR Rules*** | other |  |  |  |  |  |  |  | Noted |
| [S1-212004](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212004.zip) | Apple | ***FS\_Resident: Clarification of Loss of 5GC connectivity requirements*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0001 |  | C | 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) | Revised to [S1-212118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212118.zip) |
| [S1-212005](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212005.zip) | InterDigital, Xiaomi, China Mobile | ***FS\_TACMM: Alignment of the scope with the SID*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212142](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212142.zip) |
| [S1-212006](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212006.zip) | InterDigital | ***FS\_TACMM: Resolving the Editor’s Notes on the use case Haptic feedback for a personal exclusion zone*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212007](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212007.zip) | InterDigital, Telefónica | ***FS\_TACMM: New use case on Augmented robotic telepresence*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212008](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212008.zip) | Samsung Electronics GmbH | ***Manageability Consolidated Requirements Editor's Note Resolution*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0001 |  | F | 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) | Revised to [S1-212110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212110.zip) |
| [S1-212009](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212009.zip) | ETSI MCC | ***MCC reminder on some editing rules for writing a CR*** | other |  |  |  |  |  |  |  | Endorsed |
| [S1-212010](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212010.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution for “timely” term meaning*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0002 |  | D | 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) | Revised to [S1-212102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212102.zip) |
| [S1-212011](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212011.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell | ***Addressing EN resolution for standard use cases in 5.7.1*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0003 |  | D | 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) | Revised to [S1-212103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212103.zip) |
| [S1-212012](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212012.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell | ***Addressing EN resolution for RAN parameters in 5.7.1*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0004 |  | D | 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) | Revised to [S1-212104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212104.zip) |
| [S1-212013](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212013.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell | ***Addressing EN resolution in clause 5.7.5*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0005 |  | D | 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) | Revised to [S1-212105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212105.zip) |
| [S1-212014](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212014.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell | ***Addressing EN resolution in clause 5.7.2*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0006 |  | D | 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) | Revised to [S1-212106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212106.zip) |
| [S1-212015](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212015.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell | ***Addressing EN resolution in clause 5.7.6*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0007 |  | F | 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) | Revised to [S1-212084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212084.zip) |
| [S1-212016](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212016.zip) | Charter Communications, Inc | ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** | CR | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0001 |  | 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) | Revised to [S1-212136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212136.zip) |
| [S1-212017](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212017.zip) | Intel | ***Update Use Case 5.21 for PRAS*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0002 |  | B | 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) | Revised to [S1-212119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212119.zip) |
| [S1-212018](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212018.zip) | ZTE, China Telecom, CEPRI | ***Update Consolidated PR and KPI tables in Section 7*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0008 |  | F | 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) | Revised to [S1-212111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212111.zip) |
| [S1-212019](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212019.zip) | Lenovo, Motorola Mobility | ***Miscellaneous corrections from pCR implementation*** | CR | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0002 |  | 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) | Revised to [S1-212137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212137.zip) |
| [S1-212020](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212020.zip) | InterDigital | ***Requirements on PIN element discovery restriction*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0001 |  | 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) | Revised to [S1-212129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212129.zip) |
| [S1-212021](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212021.zip) | China Telecomunication Corp. | ***CR22. 858 V2.0.0 Clause5.5 routing via residential ip network*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0003 |  | 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) | Revised to [S1-212116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212116.zip) |
| [S1-212022](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212022.zip) | InterDigital | ***New use case on enabling minimum user interaction for a relocated evolved residential gateway*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0004 |  | B | 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) | Noted |
| [S1-212023](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212023.zip) | BDBOS, A.S.T.R.I.D. S.A., BMWi, Ericsson, FirstNet, Home Office, MINISTERE DE L'INTERIEUR, Netherlands Police, Norwegian Communications Authority, Suomen Erillisverkot Oy, UIC, ZITiS | ***Sharing administrative configuration between interconnected MCX Service systemscv*** | WID new |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Agreed |
| [S1-212024](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212024.zip) | vivo Mobile Com. (Chongqing) | ***PIN Element definition update and abbreviations added*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0002 |  | F | 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) | Revised to [S1-212128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212128.zip) |
| [S1-212025](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212025.zip) | vivo Mobile Com. (Chongqing) | ***Usecase 5:4 & 5.7: Update existing requirements section*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0003 |  | 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) | Revised to [S1-212130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212130.zip) |
| [S1-212026](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212026.zip) | vivo Mobile Com. (Chongqing) | ***Conclusions*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0004 |  | 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) | Agreed |
| [S1-212027](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212027.zip) | vivo Mobile Com. (Chongqing) | ***Requirements consolidation - part 1*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0005 |  | 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) | Revised to [S1-212135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212135.zip) |
| [S1-212028](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212028.zip) | vivo Mobile Com. (Chongqing) | ***Requirements consolidation - part 2*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0006 |  | 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) | Merge into 2027r09 |
| [S1-212029](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212029.zip) | InterDigital | ***FS\_TACMM: New use case on haptic and multimodal feedback for precision training of elite athletes*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212149.zip) |
| [S1-212030](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212030.zip) | Intel | ***Clarification for potential requirements of UCs 5.3, 5.5, 5.8, 5.9*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0007 |  | 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) | Revised to [S1-212131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212131.zip) |
| [S1-212031](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212031.zip) | vivo Mobile Com. (Chongqing) | ***Editorials*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0008 |  | D | 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) | Agreed |
| [S1-212032](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212032.zip) | China Unicom | ***FS\_Resident remove [PR. 5.4.6-001] and the accompanying EN*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0005 |  | 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) | Revised to [S1-212117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212117.zip) |
| [S1-212033](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212033.zip) | Qualcomm, Sony, InterDigital, AT&T, FIRSTNET, Verizon UK Ltd, ZTE | ***Proposal on consolidated requirements for FS\_VMR - Baseline*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Noted |
| [S1-212034](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212034.zip) | Qualcomm Incorporated | ***Updated proposal on consolidated requirements*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Revised to [S1-212140](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212140.zip) |
| [S1-212035](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212035.zip) | Qualcomm Incorporated | ***TR conclusions*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Revised to [S1-212141](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212141.zip) |
| [S1-212036](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212036.zip) | Qualcomm Incorporated | ***New WID on Vehicle Relays*** | WID new |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Noted |
| [S1-212037](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212037.zip) | Qualcomm Incorporated | ***Discussion on remaining consolidated requirements*** | discussion |  |  |  |  |  |  | [**FS\_PALS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) | Noted |
| [S1-212038](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212038.zip) | Qualcomm Incorporated | ***CR to update consolidated requirements*** | CR | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0003 |  | 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) | Revised to [S1-212150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212150.zip) |
| [S1-212039](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212039.zip) | China Telecomunication Corp. | ***Update to conclusion and recommendations*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0009 |  | 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) | Revised to [S1-212112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212112.zip) |
| [S1-212040](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212040.zip) | KPNN.V., vivo Mobile Communications Ltd | ***New WID on Personal IoT and Residential networks Service Requirements - PIRates*** | WID new |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Revised to [S1-212148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212148.zip) |
| [S1-212041](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212041.zip) | KPN N.V. | ***Resident consolidation discussion document*** | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Noted |
| [S1-212042](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212042.zip) | KPN N.V. | ***Resident requirements consolidation 22.858CR*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0006 |  | C | 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) | Revised to [S1-212127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212127.zip) |
| [S1-212043](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212043.zip) | KPN N.V. | ***Hybrid access in definitions*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0007 |  | C | 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) | Revised to [S1-212115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212115.zip) |
| [S1-212044](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212044.zip) | KPN N.V. | ***Consistent usage of definition “Authorised Administrator”*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0008 |  | C | 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) | Revised to [S1-212114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212114.zip) |
| [S1-212045](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212045.zip) | KPN N.V. | ***Change residential network to CPN*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0009 |  | C | 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) | Agreed |
| [S1-212046](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212046.zip) | KPN N.V. | ***Editorial changes to TR*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0010 |  | D | 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) | Agreed |
| [S1-212047](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212047.zip) | KPN N.V. | ***Remove Editor's Note and add Note on requirements E2E QoS Monitoring*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0011 |  | C | 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) | Revised to [S1-212125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212125.zip) |
| [S1-212048](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212048.zip) | KPN N.V. | ***Remote Editor's Notes on requirements consolidation*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0012 |  | D | 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) | Agreed |
| [S1-212049](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212049.zip) | KPN N.V. | ***Removing editor's note on rephrasing requirements*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0013 |  | D | 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) | Agreed |
| [S1-212050](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212050.zip) | KPN N.V. | ***Remove Editor’s Notes in Use Case 5.16 - 5G LAN with fixed IP VPN*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0014 |  | D | 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) | Revised to [S1-212126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212126.zip) |
| [S1-212051](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212051.zip) | KPN N.V. | ***Remove Editor’s Notes in 5.18 on requirements Control by Authorised Adminstrator*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0015 |  | C | 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) | Agreed |
| [S1-212052](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212052.zip) | Beijing Xiaomi Mobile Software | ***TACMM\_Smart-Factory backup in Multi-modality Interaction System*** | discussion |  |  |  |  |  |  |  | Noted |
| [S1-212053](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212053.zip) | KPN N.V. | ***Remove Editor’s Note in 5.22 on requirements external services behind eRG in CPN*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0016 |  | D | 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) | Agreed |
| [S1-212054](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212054.zip) | KPN N.V. | ***Update of use case 5.2 use of 3GPP credentials*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0017 |  | B | 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) | Revised to [S1-212120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212120.zip) |
| [S1-212055](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212055.zip) | KPN N.V. | ***Update use case 5.3 on service continuity between CPN and public network*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0018 |  | B | 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) | Revised to [S1-212121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212121.zip) |
| [S1-212056](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212056.zip) | Beijing Xiaomi Software Tech | ***Multi-Modality service – motion control*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212057](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212057.zip) | Xiaomi | ***New Use Case Live Event Selective Immersion*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212145](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212145.zip) |
| [S1-212058](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212058.zip) | Lenovo, Motorola Mobility | ***Editorial corrections to TR 22.847 v0.2.0*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Agreed |
| [S1-212059](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212059.zip) | CEPRI,China Telecom, ZTE | ***Security considerations*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0010 |  | 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) | Revised to [S1-212113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212113.zip) |
| [S1-212060](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212060.zip) | China Telecomunication Corp. | ***Editorial Updates to TR22.867*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0011 |  | F | 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) | Revised to [S1-212109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212109.zip) |
| [S1-212061](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212061.zip) | Samsung Electronics GmbH | ***22.839 P-CR: Clean up of use case 5.15*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Agreed |
| [S1-212062](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212062.zip) | Samsung Electronics GmbH | ***Removal of Editor’s Note from Clause 5.10.5*** | CR | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0004 |  | D | 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) | Agreed |
| [S1-212063](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212063.zip) | InterDigital | ***Use case on supporting inter-connection between CPNs in different networks*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0019 |  | B | 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) | Noted |
| [S1-212064](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212064.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***RAN Information reporting for Utilities: Rationale and Application*** | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | Noted |
| [S1-212065](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212065.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***USIM Events requirements – discussion and proposal*** | discussion | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_5GSEI**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=880038) | Noted |
| [S1-212066](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212066.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Resolution of Editor’s Notes from Clause 5.5.6*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0012 |  | F | 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) | Agreed |
| [S1-212067](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212067.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***USIM Related Requirements for Manageability*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0013 |  | F | 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) | Agreed |
| [S1-212068](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212068.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Removal of Editor’s Notes from Clause 5.11*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0014 |  | D | 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) | Revised to [S1-212108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212108.zip) |
| [S1-212069](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212069.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Removal of Editor’s Note in Annex A*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0015 |  | D | 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) | Agreed |
| [S1-212070](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212070.zip) | Charter Communications, Inc | ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** | discussion | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_PALS**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890023) | Noted |
| [S1-212071](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212071.zip) | Xiaomi | ***TACMM New Use Case Smart-Factory backup in Multi-modality Interaction System*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212072](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212072.zip) | Huawei Technologies Sweden AB | ***Addition of potential requirements on PIN Element identity and discovery of PIN Elemenet identity*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0009 |  | C | 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) | Revised to [S1-212132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212132.zip) |
| [S1-212073](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212073.zip) | Huawei Technologies R&D UK | ***Use case “Support for IEEE P1918.1 architecture”*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212146.zip) |
| [S1-212074](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212074.zip) | Huawei Technologies Sweden AB | ***Addition of potential requirement on PIN identity*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0010 |  | C | 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) | Merge into 2072r1 |
| [S1-212075](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212075.zip) | Huawei | ***FS\_Resident Correction of clause 5.10.1*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0020 |  | D | 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) | Revised to [S1-212122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212122.zip) |
| [S1-212076](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212076.zip) | Huawei | ***FS\_Resident Correction of clause 5.11.1*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0021 |  | D | 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) | Revised to [S1-212123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212123.zip) |
| [S1-212077](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212077.zip) | Huawei | ***FS\_Resident Correction of clause 5.12.1*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0022 |  | D | 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) | Noted |
| [S1-212078](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212078.zip) | China Mobile Com. Corporation | ***FS\_TACMM Concept discussion and way forward*** | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212079](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212079.zip) | China Mobile Com. Corporation | ***FS\_TACMM Updating 5.1 use case of Immersive multi-modality VR application*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212143](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212143.zip) |
| [S1-212080](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212080.zip) | China Mobile Com. Corporation | ***FS\_TACMM Adding potential requirement of Immersive VR games*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212144](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212144.zip) |
| [S1-212081](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212081.zip) | China Mobile Com. Corporation | ***FS\_TACMM use case Smart Prosthesis and Its Safety Model*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212082](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212082.zip) | China Mobile Com. Corporation | ***FS\_TACMM use case Virtual Factory*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Revised to [S1-212147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212147.zip) |
| [S1-212083](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212083.zip) | China Mobile Com. Corporation | ***FS\_TACMM use case Remote UAV control through HD video in First Person View*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212084](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212084.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE | ***Addressing EN resolution in clause 5.7.6*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0007 | 1 | F | 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) | Revised to [S1-212085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212085.zip) |
| [S1-212085](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212085.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE | ***Addressing EN resolution in clause 5.7.6*** | CR | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0007 | 2 | F | 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) | Revised to [S1-212107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212107.zip) |
| [S1-212086](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212086.zip) | vivo Mobile Com. (Chongqing) | ***Update of manual selection*** | CR | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0005 |  | 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) | Revised to [S1-212138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212138.zip) |
| [S1-212087](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212087.zip) | Philips International B.V. | ***Device discovery clarification*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0011 |  | 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) | Noted |
| [S1-212088](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212088.zip) | Philips International B.V. | ***Clarification of 22.101 requirement*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0012 |  | 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) | Revised to [S1-212133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212133.zip) |
| [S1-212089](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212089.zip) | KPN N.V. | ***Proposed structure for 22.261 section on Resident and PINs*** | discussion |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Noted |
| [S1-212090](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212090.zip) | Philips International B.V., Futurewei, vivo Mobile Communications Co. LTD | ***Clarifying subscription aspects*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0013 |  | F | 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) | Revised to [S1-212134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212134.zip) |
| [S1-212091](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212091.zip) | Philips International B.V. | ***PIN definition update*** | CR | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0014 |  | F | 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) | Noted |
| [S1-212092](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212092.zip) | Philips International B.V. | ***Clarification on PRAS connectivity*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0023 |  | 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) | Noted |
| [S1-212093](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212093.zip) | Philips International B.V. | ***Clarification of PRAS provisioning*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0024 |  | B | 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) | Revised to [S1-212124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212124.zip) |
| [S1-212094](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212094.zip) | Philips International B.V. | ***Clarification of QoS between two UEs*** | CR | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0025 |  | B | 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) | Revised to [S1-212151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212151.zip) |
| [S1-212095](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212095.zip) | Philips International B.V. | ***Clarification of use case 5.15*** | CR | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0006 |  | 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) | Revised to [S1-212139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212139.zip) |
| [S1-212096](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212096.zip) | ETSI MCC | ***Minutes of SA1#94e*** | Report |  |  |  |  |  |  |  | Revised to [S1-212098](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212098.zip) |
| [S1-212097](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212097.zip) | Chair | ***FS\_TACMM Discussion slides*** | Discussion |  |  |  |  |  |  |  | Noted |
| [S1-212098](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212098.zip) | ETSI MCC | ***Final minutes*** | Report |  |  |  |  |  |  |  | Agreed |
| [S1-212100](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212100.zip) | Rapporteur (Qualcomm) | ***TR22.839 v1.1.0 to include agreements at this meeting*** | Draft TR | 22.839 |  |  |  | 1.1.0 |  | FS\_VMR | Agreed |
| [S1-212101](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212101.zip) | Rapporteur (China Mobile) | ***TR22.847v0.3.0 to include agreements at this meeting*** | Draft TR | 22.847 |  |  |  | 0.3.0 |  | FS\_TACMM | Agreed |
| [S1-212102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212102.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution for timely term meaning*** | CR | 22.867 | 0002 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212103.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution for standard use cases in 5.7.1*** | CR | 22.867 | 0003 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212104.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom | ***Addressing EN resolution for RAN parameters in 5.7.1*** | CR | 22.867 | 0004 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212105.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution in clause 5.7.5*** | CR | 22.867 | 0005 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212106.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution in clause 5.7.2*** | CR | 22.867 | 0006 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212107.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE | ***Addressing EN resolution in clause 5.7.6*** | CR | 22.867 | 0007 | 3 | F | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212108.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Removal of Editor s Notes from Clause 5.11*** | CR | 22.867 | 0014 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212109.zip) | China Telecom, China Southern Power Grid, CEPRI, ZTE | ***Editorial Updates to TR22.867*** | CR | 22.867 | 0011 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212110.zip) | EUTC, Samsung, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Addressing EN resolution in 7.1*** | CR | 22.867 | 0001 | 1 | B | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212111.zip) | ZTE, China Telecom, CEPRI | ***Update Consolidated PR and KPI tables in Section 7*** | CR | 22.867 | 0008 | 1 | F | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212112.zip) | China Telecom, China Southern Power Grid, CEPRI, ZTE, Samsung, Huawei | ***Update to conclusion and recommendation*** | CR | 22.867 | 0009 | 1 | F | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212113.zip) | CEPRI，China Telecom, ZTE, HuaWei | ***Security considerations*** | CR | 22.867 | 0010 | 1 | B | 18.0.1 | Rel-18 | FS\_5GSEI | Agreed |
| [S1-212114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212114.zip) | KPN | ***Consistent usage of definition Authorised Administrator*** | CR | 22.858 | 0008 | 1 | D | 18.0.1 | Rel-18 | FS\_RESIDENT | Agreed |
| [S1-212115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212115.zip) | KPN | ***Hybrid access in definitions*** | CR | 22.858 | 0007 | 1 | C | 18.0.1 | Rel-18 | FS\_RESIDENT | Agreed |
| [S1-212116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212116.zip) | China Telecom | ***Clause5.5 routing via residential IP network*** | CR | 22.858 | 0003 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212117.zip) | China Unicom | ***Alignment and clarification of PR5.4.6-001*** | CR | 22.858 | 0005 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212118.zip) | Apple | ***FS\_Resident: Clarification of Loss of 5GC connectivity requirements*** | CR | 22.858 | 0001 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212119.zip) | Intel | ***Update Use Case 5.21 for PRAS*** | CR | 22.858 | 0002 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212120.zip) | KPN N.V. | ***Update of use case 5.2 use of 3GPP credentials*** | CR | 22.858 | 0017 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212121.zip) | KPN N.V. | ***Update use case 5.3 on service continuity between CPN and public network*** | CR | 22.858 | 0018 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212122.zip) | Huawei | ***FS\_Resident Correction of clause 5.10*** | CR | 22.858 | 0020 | 1 | F | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212123.zip) | Huawei | ***FS\_Resident Correction of clause 5.11.1*** | CR | 22.858 | 0021 | 1 | F | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212124.zip) | Philips International B.V. | ***Clarification of PRAS configuration*** | CR | 22.858 | 0024 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212125.zip) | KPN | ***Remove Editor s Note on requirements E2E QoS Monitoring.*** | CR | 22.858 | 0011 | 1 | D | 18.0.1 | Rel-18 | FS\_RESIDENT | Agreed |
| [S1-212126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212126.zip) | KPN | ***Remove Editor s Notes on requirement 5G LAN with fixed IP VPN*** | CR | 22.858 | 0014 | 1 | D | 18.0.1 | Rel-18 | FS\_RESIDENT | Agreed |
| [S1-212127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212127.zip) | KPN | ***Consolidation of Resident requirements*** | CR | 22.858 | 0006 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident | Agreed |
| [S1-212128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212128.zip) | vivo Mobile Com. (Chongqing) | ***PIN Element definition update and abbreviations added*** | CR | 22.859 | 0002 | 1 | F | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212129.zip) | InterDigital | ***Requirements on PIN element discovery restriction*** | CR | 22.859 | 0001 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212130.zip) | vivo Mobile Com. (Chongqing) | ***Usecase 5:4 & 5.7: Update existing requirements section*** | CR | 22.859 | 0003 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212131.zip) | Intel, vivo Mobile Communications Co. LTD | ***Clarification for potential requirements of UCs 5.3, 5.9*** | CR | 22.859 | 0007 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212132.zip) | Huawei, Huawei Devices | ***Addition of potential requirements on PIN and PIN Element identity and discovery of PIN Element identity*** | CR | 22.859 | 0009 | 1 | C | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212133.zip) | Philips International B.V., Deutsche Telekom AG | ***Providing credentials via gateway UE*** | CR | 22.859 | 0012 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212134.zip) | Philips International B.V., Futurewei, vivo Mobile Communications Co. LTD | ***Clarifying subscription aspects*** | CR | 22.859 | 0013 | 1 | F | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212135.zip) | vivo Mobile Com. (Chongqing) | ***Requirements consolidation - part 1*** | CR | 22.859 | 0005 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN | Agreed |
| [S1-212136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212136.zip) | Charter Communications, CableLabs, Futurewei Technologies, Lenovo, Motorola Mobility, Philips, Qualcomm, vivo Mobile Communications | ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** | CR | 22.844 | 0001 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS | Agreed |
| [S1-212137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212137.zip) | Lenovo, Motorola Mobility | ***Miscellaneous corrections from pCR implementation*** | CR | 22.844 | 0002 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS | Agreed |
| [S1-212138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212138.zip) | vivo Mobile Com. (Chongqing) | ***Update of manual selection*** | CR | 22.844 | 0005 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS | Agreed |
| [S1-212139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212139.zip) | Philips International B.V. | ***Clarification of use case 5.15*** | CR | 22.844 | 0006 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS | Agreed |
| [S1-212140](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212140.zip) | Qualcomm | ***Updated proposal on consolidated requirements for FS\_VMR*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Agreed |
| [S1-212141](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212141.zip) | Qualcomm | ***Proposal for FS\_VMR TR conclusions*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Agreed |
| [S1-212142](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212142.zip) | InterDigital, Xiaomi, China Mobile, Huawei | ***FS\_TACMM: Alignment of the scope with the SID*** | pCR | [**22.839**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3830) |  |  |  | 1.0.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_VMR**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=890022) | Agreed |
| [S1-212143](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212143.zip) | China Mobile, Huawei, LG Electronics | ***Updating 5.1 use case of Immersive multi-modality VR application*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Agreed |
| [S1-212144](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212144.zip) | China Mobile | ***Adding potential requirement of Immersive VR games*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Agreed |
| [S1-212145](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212145.zip) | Xiaomi | ***New Use Case Live Event Selective Immersion*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Agreed |
| [S1-212146](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212146.zip) | Huawei, Hisilicon | ***Use case Support for IEEE P1918.1 architecture*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Agreed |
| [S1-212147](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212147.zip) | China Mobile | ***Add use case for virtual factory*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Agreed |
| [S1-212148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212148.zip) | vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo, | ***New WID on PIN + Resident Service requirements*** | WID new |  |  |  |  |  | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) |  | Agreed |
| [S1-212149](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212149.zip) | InterDigital | ***FS\_TACMM: New use case on haptic and multimodal feedback for precision*** | pCR | [**22.847**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3848) |  |  |  | 0.2.0 | [**Rel-18**](https://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=193) | [**FS\_TACMM**](https://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=900027) | Noted |
| [S1-212150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212150.zip) | Qualcomm | ***Updating PALS Consolidated Requirements*** | CR | 22.844 | 0003 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS | Agreed |
| [S1-212151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212151.zip) | Philips International B.V. | ***Clarification of QoS between two UEs*** | CR | 22.858 | 0025 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident | Agreed. |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tdoc # | Source | ***Title*** | Spec | CR# | r | cat | Version in | Rel | WI |
| [S1-212136](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212136.zip) | Charter Communications, CableLabs, Futurewei Technologies, Lenovo, Motorola Mobility, Philips, Qualcomm, vivo Mobile Communications | ***FS\_PALS Update: Chapter 5.6.6 Requirement for User Awareness*** | 22.844 | 0001 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-212137](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212137.zip) | Lenovo, Motorola Mobility | ***Miscellaneous corrections from pCR implementation*** | 22.844 | 0002 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-212150](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212150.zip) | Qualcomm | ***Updating PALS Consolidated Requirements*** | 22.844 | 0003 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-212062](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212062.zip) | Samsung Electronics GmbH | ***Removal of Editor’s Note from Clause 5.10.5*** | [**22.844**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3831) | 0004 |  | D | 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) |
| [S1-212138](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212138.zip) | vivo Mobile Com. (Chongqing) | ***Update of manual selection*** | 22.844 | 0005 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-212139](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212139.zip) | Philips International B.V. | ***Clarification of use case 5.15*** | 22.844 | 0006 | 1 | F | 18.0.1 | Rel-18 | FS\_PALS |
| [S1-212118](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212118.zip) | Apple | ***FS\_Resident: Clarification of Loss of 5GC connectivity requirements*** | 22.858 | 0001 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212119](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212119.zip) | Intel | ***Update Use Case 5.21 for PRAS*** | 22.858 | 0002 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212116](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212116.zip) | China Telecom | ***Clause5.5 routing via residential IP network*** | 22.858 | 0003 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212117](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212117.zip) | China Unicom | ***Alignment and clarification of PR5.4.6-001*** | 22.858 | 0005 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212127](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212127.zip) | KPN | ***Consolidation of Resident requirements*** | 22.858 | 0006 | 1 | C | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212115](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212115.zip) | KPN | ***Hybrid access in definitions*** | 22.858 | 0007 | 1 | C | 18.0.1 | Rel-18 | FS\_RESIDENT |
| [S1-212114](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212114.zip) | KPN | ***Consistent usage of definition Authorised Administrator*** | 22.858 | 0008 | 1 | D | 18.0.1 | Rel-18 | FS\_RESIDENT |
| [S1-212045](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212045.zip) | KPN N.V. | ***Change residential network to CPN*** | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0009 |  | C | 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) |
| [S1-212046](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212046.zip) | KPN N.V. | ***Editorial changes to TR*** | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0010 |  | D | 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) |
| [S1-212125](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212125.zip) | KPN | ***Remove Editor s Note on requirements E2E QoS Monitoring.*** | 22.858 | 0011 | 1 | D | 18.0.1 | Rel-18 | FS\_RESIDENT |
| [S1-212048](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212048.zip) | KPN N.V. | ***Remote Editor's Notes on requirements consolidation*** | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0012 |  | D | 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) |
| [S1-212049](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212049.zip) | KPN N.V. | ***Removing editor's note on rephrasing requirements*** | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0013 |  | D | 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) |
| [S1-212126](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212126.zip) | KPN | ***Remove Editor s Notes on requirement 5G LAN with fixed IP VPN*** | 22.858 | 0014 | 1 | D | 18.0.1 | Rel-18 | FS\_RESIDENT |
| [S1-212051](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212051.zip) | KPN N.V. | ***Remove Editor’s Notes in 5.18 on requirements Control by Authorised Adminstrator*** | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0015 |  | C | 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) |
| [S1-212053](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212053.zip) | KPN N.V. | ***Remove Editor’s Note in 5.22 on requirements external services behind eRG in CPN*** | [**22.858**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3772) | 0016 |  | D | 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) |
| [S1-212120](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212120.zip) | KPN N.V. | ***Update of use case 5.2 use of 3GPP credentials*** | 22.858 | 0017 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212121](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212121.zip) | KPN N.V. | ***Update use case 5.3 on service continuity between CPN and public network*** | 22.858 | 0018 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212122](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212122.zip) | Huawei | ***FS\_Resident Correction of clause 5.10*** | 22.858 | 0020 | 1 | F | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212123](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212123.zip) | Huawei | ***FS\_Resident Correction of clause 5.11.1*** | 22.858 | 0021 | 1 | F | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212124](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212124.zip) | Philips International B.V. | ***Clarification of PRAS configuration*** | 22.858 | 0024 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident |
| [S1-212129](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212129.zip) | InterDigital | ***Requirements on PIN element discovery restriction*** | 22.859 | 0001 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212128](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212128.zip) | vivo Mobile Com. (Chongqing) | ***PIN Element definition update and abbreviations added*** | 22.859 | 0002 | 1 | F | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212130](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212130.zip) | vivo Mobile Com. (Chongqing) | ***Usecase 5:4 & 5.7: Update existing requirements section*** | 22.859 | 0003 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212026](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212026.zip) | vivo Mobile Com. (Chongqing) | ***Conclusions*** | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0004 |  | 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) |
| [S1-212135](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212135.zip) | vivo Mobile Com. (Chongqing) | ***Requirements consolidation - part 1*** | 22.859 | 0005 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212131](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212131.zip) | Intel, vivo Mobile Communications Co. LTD | ***Clarification for potential requirements of UCs 5.3, 5.9*** | 22.859 | 0007 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212031](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212031.zip) | vivo Mobile Com. (Chongqing) | ***Editorials*** | [**22.859**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3773) | 0008 |  | D | 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) |
| [S1-212132](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212132.zip) | Huawei, Huawei Devices | ***Addition of potential requirements on PIN and PIN Element identity and discovery of PIN Element identity*** | 22.859 | 0009 | 1 | C | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212133](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212133.zip) | Philips International B.V., Deutsche Telekom AG | ***Providing credentials via gateway UE*** | 22.859 | 0012 | 1 | B | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212134](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212134.zip) | Philips International B.V., Futurewei, vivo Mobile Communications Co. LTD | ***Clarifying subscription aspects*** | 22.859 | 0013 | 1 | F | 18.0.1 | Rel-18 | FS\_PIN |
| [S1-212110](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212110.zip) | EUTC, Samsung, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Addressing EN resolution in 7.1*** | 22.867 | 0001 | 1 | B | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212102](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212102.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution for timely term meaning*** | 22.867 | 0002 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212103](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212103.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution for standard use cases in 5.7.1*** | 22.867 | 0003 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212104](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212104.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom | ***Addressing EN resolution for RAN parameters in 5.7.1*** | 22.867 | 0004 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212105](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212105.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution in clause 5.7.5*** | 22.867 | 0005 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212106](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212106.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Deutsche Telekom, Nokia, Nokia Shanghai Bell, China Telecom, BMWi | ***Addressing EN resolution in clause 5.7.2*** | 22.867 | 0006 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212107](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212107.zip) | EUTC, Vodafone, Samsung, NOVAMINT, EDF, Telefonica, Nokia, Nokia Shanghai Bell, China Telecom, BMWi, Deutsche Telekom, ZTE | ***Addressing EN resolution in clause 5.7.6*** | 22.867 | 0007 | 3 | F | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212111](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212111.zip) | ZTE, China Telecom, CEPRI | ***Update Consolidated PR and KPI tables in Section 7*** | 22.867 | 0008 | 1 | F | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212112](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212112.zip) | China Telecom, China Southern Power Grid, CEPRI, ZTE, Samsung, Huawei | ***Update to conclusion and recommendation*** | 22.867 | 0009 | 1 | F | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212113](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212113.zip) | CEPRI，China Telecom, ZTE, HuaWei | ***Security considerations*** | 22.867 | 0010 | 1 | B | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212109](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212109.zip) | China Telecom, China Southern Power Grid, CEPRI, ZTE | ***Editorial Updates to TR22.867*** | 22.867 | 0011 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212066](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212066.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Resolution of Editor’s Notes from Clause 5.5.6*** | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0012 |  | F | 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) |
| [S1-212067](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212067.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***USIM Related Requirements for Manageability*** | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0013 |  | F | 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) |
| [S1-212108](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212108.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Removal of Editor s Notes from Clause 5.11*** | 22.867 | 0014 | 1 | D | 18.0.1 | Rel-18 | FS\_5GSEI |
| [S1-212069](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212069.zip) | Samsung, EUTC, Vodafone, Telefonica, BMWi, EDF, Novamint | ***Removal of Editor’s Note in Annex A*** | [**22.867**](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3770) | 0015 |  | D | 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) |
| [S1-212151](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212151.zip) | Philips International B.V. | ***Clarification of QoS between two UEs*** | 22.858 | 0025 | 1 | B | 18.0.1 | Rel-18 | FS\_Resident |

## Annex C: Lists of liaisons

No liaisons were handled at this meeting.

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |
| --- | --- | --- |
| [S1-212023](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212023.zip) | BDBOS, A.S.T.R.I.D. S.A., BMWi, Ericsson, FirstNet, Home Office, MINISTERE DE L'INTERIEUR, Netherlands Police, Norwegian Communications Authority, Suomen Erillisverkot Oy, UIC, ZITiS | ***Sharing administrative configuration between interconnected MCX Service systemscv*** |
| [S1-212148](https://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_94bise_July2021/Docs/S1-212148.zip) | vivo Mobile Communications Ltd, Convida Wireless, InterDigital, KPN, Oppo | ***New WID on PIN + Resident Service requirements*** |

## Annex E: Registered Participants list

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Organization Represented | Organization Represented Category Code |
| Mr. | Ai | Ming | CATT | ETSI |
| Mr. | Aleksiev | Vasil | T-Mobile Austria GmbH | ETSI |
| Mr. | audebert | vincent | EDF Recherche et Développement | ETSI |
| Dr. | Awoniyi-Oteri | Olufunmilola | Qualcomm Korea | TTA |
| Mr. | Bahr | Michael | Siemens AG | ETSI |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | ETSI |
| Ing. | Beicht | Peter | Kontron Transportation France | ETSI |
| Mr. | Berisot | Thierry | NOVAMINT | ETSI |
| Mr. | Bischinger | Kurt | Deutsche Telekom AG | ETSI |
| Mr. | Bleckert | Peter | Ericsson LM | ETSI |
| Mr. | Buckley | Adrian | vivo Mobile Com. (Chongqing) | CCSA |
| Mr. | BYUN | ILMU | KRRI | TTA |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Electronics | CCSA |
| Mr. | Chang | Jaehyun | LG Uplus | TTA |
| Mr. | Chen | Dong | Xiaomi Communications | CCSA |
| Dr. | Chen | Sun | Sony Group Corporation | ARIB |
| Ms. | Chen | Zhuoyi | China Telecom Corporation Ltd. | CCSA |
| Mr. | Choi | Hyung-Nam | Motorola Mobility UK Ltd. | ETSI |
| Dr. | Cogalan | Tezcan | InterDigital, Europe, Ltd. | ETSI |
| Ms. | Covell | Betsy | Nokia Solutions & Networks (I) | TSDSI |
| Mr. | Cui | Shengjiang | Beijing OPPO Com. corp., ltd | CCSA |
| Mr. | Dees | Walter | Philips International B.V. | ETSI |
| Mr. | DHARMADHIKARI | OMKAR | CableLabs | ETSI |
| Mr. | Elamanov | Sherzod | SyncTechno Inc. | TTA |
| Mr. | Farac | Robert | Ericsson GmbH, Eurolab | ETSI |
| Mr. | Gach | Guillaume | Union Inter. Chemins de Fer | ETSI |
| Ms. | Galante | Maria Pia | TELECOM ITALIA S.p.A. | ETSI |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. | ETSI |
| Mr. | Gray | Jeffrey | OTD | ETSI |
| Mr. | Griot | Miguel | Qualcomm Technologies Int | ETSI |
| Mr. | Guttman | Erik | Samsung Electronics GmbH | ETSI |
| Mr. | Hall | Edward | Huawei Technologies Sweden AB | ETSI |
| Prof. | Han | Andrew Min-gyu | Hansung University | TTA |
| Mr. | Howell | Andrew | NCSC | ETSI |
| Miss | Hu | Yue | China Mobile Com. Corporation | CCSA |
| Mr. | Janky | William | FirstNet | ATIS |
| Dr. | Jiang | Tianji | China Mobile Com. Corporation | CCSA |
| Ms. | Kang | Yanchao | vivo Communication Technology | CCSA |
| Miss | ke | xiaowan | vivo Mobile Communication (H) | CCSA |
| Ms. | Kim | Eunah | ETRI | TTA |
| Dr. | Kim | Hyunsook | LG Electronics Inc. | TTA |
| Dr. | Kim | Joonwoong | SK Telecom | TTA |
| Dr. | Kim | Laeyoung | LG Electronics Inc. | TTA |
| Dr. | Kim | Youn-Kwan | SyncTechno Inc. | TTA |
| Mr. | Kito | Takatsugu | KDDI Corporation | ARIB |
| Ms. | Koo | Hyounhee | SyncTechno Inc. | ETSI |
| Dr. | Koulakiotis | Dimitris | Sony Europe B.V. | ETSI |
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| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | ETSI |
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