3GPP TSG-SA WG1 Meeting #88 S1-193002

Reno, Nevada, USA, 18 - 22 Nov 2019

Title: 2nd Draft Agenda for SA1#88

Ag. Item: 1.1

Source: SA1 Chairman

Contact: Jose Almodovar

Submission Guidelines

* **Submission deadlines:**
  + **Tdoc number** and **CR number** requests: **Friday,** 8 November 2019, 23:00 UTC
  + Document **submission**: **Friday**, 8 November 2019, 23:00 UTC
* Documents that miss either deadline will be considered as **LATE** and will be given low priority
* **Tdoc numbers and CR numbers** can be reserved and documents uploaded at <https://portal.3gpp.org/> (register, then click on the "C" next to 3GPPSA1#88)
* Please use the document templates available at <ftp://ftp.3gpp.org/tsg_sa/WG1_Serv/TSGS1_88_Reno/templates>
* For CRs:
  + **TEI16 CRs will only be accepted if there is no impact to Stage 2 or Stage 3 or for alignment purposes**
  + **CRs** **MUST have a CR number** allocated by the secretary BEFORE being submitted
  + **CRs MUST have a Work Item code**, and the WI code must be valid for the specific release (i.e. Rel-14 CR with Rel-13 WI is not permitted)
  + Work Item Codes for the CRs are available at <http://www.3gpp.org/ftp/Specs/html-info/FeatureListFrameSet.htm>
  + SA1-specific WI codes are available at <http://www.3gpp.org/ftp/Specs/html-info/TSG-WG--s1--wis.htm>

**MEETING ROOMS:**

Room A: Plenary/Drafting Capri1/2

Room B: Breakout Naples 1

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|  |  | **Monday** | **Tuesday** | **Wednesday** |  | **Thursday** | **Friday** |
| **Q0** | **08:10**  **09:00** |  |  |  | **08:10**  **09:00** | Offline drafting EAV | Offline drafting eCAV |
| **Q1** | **09:00**  **10:30** | (start at 09:00)  **Plenary:**  1. Opening  2. Vice-chair elections  3. Reports  11.4 SA1 process improvements/updates  4. LSs | **Drafting 1 (Rm A):**  MUSIM  =================  **Drafting 2 (Rm B):**  AVProd+CMED  +5MBS\_eMC | **Drafting 1 (Rm A):**  MUSIM  =================  **Drafting 2 (Rm B):**  AVProd+CMED  +5MBS\_eMC | **09:00**  **10:30** | **Plenary:**  11.4 SA1 process improvements/updates  4. LSs  5. New WIDs | **Plenary:**  eCAV  MPS2  MUSIM  SA1 process improvements/updates  Revisions |
|  | **Coffee** |  |  |  | **Coffee** |  |  |
| **Q2** | **11:00**  **12:30** | **Plenary:**  4. LSs | **Drafting 1 (Rm A):**  MUSIM  =================  **Drafting 2 (Rm B):**  REFEC+ATRAC | **Drafting 1 (Rm A):**  EAV  =================  **Drafting 2 (Rm B):**  REFEC+ATRAC | **11:00**  **12:30** | **Plenary:**  5. New WIDs  6. Quality Improv  7. Rel-16 and earlier  8.13.Complete Rel17 contributions | **Plenary:**  Revisions |
|  | **Lunch** |  | **Lunch New incomers (Chairman+Secretary)** |  | **Lunch** |  |  |
| **Q3** | **14:00**  **15:30** | **Plenary:**  5. New WIDs | **Drafting 1 (Rm A):**  eCAV  =================  **Drafting 2 (Rm B):**  NCIS+MINT | **Drafting 1 (Rm A):**  eCAV  =================  **Drafting 2 (Rm B):**  NCIS+MINT | **14:00**  **15:30** | **Plenary:**  MUSIM  eCAV  EAV  NCIS+MINT | **Plenary:**  Revisions  Work item reports  Meeting closes at 16:00 latest |
|  | **Coffee** |  |  |  | **Coffee** |  |  |
| **Q4** | **16:00**  **18:00** | **Plenary:**  5. New WIDs  6. Quality Improv | **Drafting 1 (Rm A):**  eCAV  =================  **Drafting 2 (Rm B):**  Railway + MPS2 | **Drafting 1 (Rm A)**  eCAV  =================  **Drafting 2 (Rm B):**  Railway + MPS2 | **16:00**  **18:00** | **Plenary:**  Railway + MPS2  AVProd+CMED  +5MBS\_eMC |  |
|  |  |  |  |  |  |  |  |
| **Q5** | **18:10**  **19:30** | **Plenary:**  7. Rel-16 and earlier  8.13.Complete Rel17 contributions | **MMS**  (18:30) | **Drafting 1 (Rm A):**  eCAV  =================  **Drafting 2 (Rm B):**  MMTELin5G+  FS\_ SACI\_MCS | **18:10**  **19:30** | **Plenary:**  REFEC+ATRAC  MMTELin5G+  FS\_ SACI\_MCS |  |

**NOTE:**

**Slots scheduled based on contributions submitted**

**Slot allocation is a rough guideline and is subject to change during the meeting week**

**Drafting sessions (including drafting/work item):**

AVPROD+CMED+5MBS\_eMC *– chaired by Ki-Dong Lee*

REFEC+ATRAC *– chaired by Ki-Dong Lee*

MMTELin5G+ FS\_ SACI\_MCS - *chaired by Ki-Dong Lee*

NCIS+MINT *– chaired by Ki-Dong Lee*

Railway (FRMCS3 + MONASTERYEND + FS\_RAILSS) + MSP2*– chaired by Jose Almodovar*

EAV *– chaired by Jose Almodovar*

MUSIM *– chaired by Jose Almodovar*

eCAV *– chaired by Greg Schumacher*

**LEGEND**

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

**Conclusion**: Agreed, Approved, Revised to S1-16xxxx, Noted, Withdrawn, Moved to section xxx, Rejected, Postponed, Email Approval, Not Handled, Unallocated, Drafting

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

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| Opening of the meeting | | | | | |
| Opening of the meeting at 09:00 on Monday 18 November 2019 | | | | | |
| Agenda and scheduling | | | | | |
| AGE | S1-193000 | SA1 Chairman | Draft agenda for SA1#88 | Revised to S1-193001 |  |
| AGE | [S1-193001](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193001.zip) | SA1 Chairman | Draft agenda and schedule for SA1#88 | Revised to S1-193002 | Revision of S1-193000. |
| AGE | [S1-193002](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193002.zip) | SA1 Chairman | Final agenda and schedule for SA1#88 | Agreed | *Revision of S1-193000.*  *Revision of S1-193001*. |
| 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.  **Statement Regarding Engagement with Companies Added to the U.S. Export Administration Regulations (EAR) Entity List in 3GPP Activities** [**https://www.3gpp.org/about-3gpp/legal-matters**](https://www.3gpp.org/about-3gpp/legal-matters)  **1. Public Information is Not Subject to EAR**  3GPP is an open platform where all contributions (including technology protected or not by patent) made by the different Individual Members under the membership of each respective Organizational Partner are publicly available. Indeed, contributions by all and any Individual Members are uploaded to a public file server when received and then the documents are effectively in the public domain.  In addition, since membership of email distribution lists is open to all, documents and emails distributed by that means are considered to be publicly available.  As a result, information contained in 3GPP contributions, documents, and emails distributed at 3GPP meetings or by 3GPP email distribution lists, because it is made available to the public without restrictions upon its further dissemination, is not subject to the export restrictions of the EAR.  Meeting minutes are maintained for 3GPP meetings. Such meeting minutes for 3GPP meetings are made available to the public without restrictions upon its further dissemination. As a result, information, including information conveyed orally, contained in 3GPP meetings is not subject to the export restriction of the EAR; this would include information conveyed during side meetings that may occur during the main meetings, if these meetings are open to any participants and the results of all said meetings are publicly available without restrictions upon their further dissemination.  **2. Non-Public Information**  Non-public information refers to the information not contained or not intended to be contained in 3GPP contributions, documents or emails. Such non-public information may be disclosed during informal meetings, exchanges, discussions or any form of other communication outside the 3GPP meetings and email distribution lists, and may be subject to the EAR.  **3. Other Information**  Certain encryption software controlled under the International Traffic in Arms Regulations (ITAR), even if publicly available, may still be subject to US export controls other than the EAR.  **4. Conduct of Meetings**  The situation should be considered as "business as usual" during all the meetings called by 3GPP.  **5. Responsibility of Individual Members**  It should be remembered that contributions, meetings, exchanges, discussions or any form of other communication in or outside the 3GPP meetings are of the accountability, integrity and the responsibility of each Individual Member. In addition, Individual Members remain responsible for ensuring their compliance with all applicable export control regulations, including but not limited to EAR.  Individual Members with questions regarding the impact of laws and regulations on their participation in 3GPP should contact their companies’ legal counsels. | | | | | |
| Previous SA1 meeting report | | | | | |
| The report of the last meeting will be approved at the start of the meeting. | | | | | |
| REP | [S1-193004](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193004.zip) | ETSI | Draft minutes of SA1#87 | Revised to S1-193005 |  |
| REP | [S1-193005](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193005.zip) | ETSI | Draft minutes of SA1#87 | Agreed | Revision of S1-193004.  No presentation |
| Information for delegates | | | | | |
| Draft TR/TS to SA plenary for information: delegates are encouraged to send draft TR/TS for information as soon as there is useful content to be reviewed. Draft TR/TS can be sent to SA plenary for information more than once.  Drafting p-CRs:   * All changes must be shown 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> | | | | | |
| Information for rapporteurs | | | | | |
| "Beginner's guide" for writing a new TS/TR is available at <http://www.3gpp.org/specifications-groups/delegates-corner/writing-a-new-spec> (feedback on content is welcome!)  For detailed drafting guidelines, please see [TR 21.801](http://www.3gpp.org/DynaReport/21801.htm)  Rapporteurs are expected to produce a work item/study item status report for the end of the meeting under agenda item **Error! Reference source not found.**. The template is available [here](http://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_85_Tallin/templates/Template_WI_Status_Update.zip).  For draft TR/TS, the rapporteur is expected to update the draft TR/TS with all contributions agreed at the meeting before the meeting is closed. | | | | | |
| Working agreements | | | | | |
| None | | | | | |
| Vice-chair elections | | | | | |
| We will have elections for two vice-chair positions.  See [SA1#88 Elections](https://www.3gpp.org/news-events/elections/2077) for a list of candidatures received. | | | | | |
| Reports and action items | | | | | |
| REP | [S1-193003](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193003.zip) | SA1 chairman | SA1-related topics at SA#85 | Noted |  |
| WP | [S1-193006](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193006.zip) | MCC | Workplan | Noted | *Moved from 3* |
| Liaison Statements (including related contributions) | | | | | |
| **UAC for NB-IoT** | | | | | |
| TO | [S1-193210](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193210.zip) | R2-1911865 | Reply LS on UAC for NB-IoT | Noted |  |
| Cont | [S1-193081](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193081.zip) | NTT DOCOMO | Consideration for UAC for NB IoT | Noted |  |
| CR | [S1-193077](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193077.zip) | NTT DOCOMO | CR 22.261v16.9.0 Unified Access Control for NB IoT | Noted | *WI code* TEI16 *Rel-16 CR0414R- Cat C* |
| CR | [S1-193080](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193080.zip) | NTT DOCOMO | CR 22.261v17.0.1 Unified Access Control for NB IoT | Noted | *WI code* TEI16 *Rel-17 CR0415R- Cat A* |
| CR | [S1-193085](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193085.zip) | Qualcomm | CR22.261v16.9.0 UAC for NB-IOT | Revised to S1-193457 | *WI code* 5G\_CIOT *Rel-16 CR0417R- Cat B*  Invalid WI code |
| CR | [S1-193457](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193457.zip) | Qualcomm | CR22.261v16.9.0 UAC for NB-IOT | Revised to S1-193528 | *WI code 5G\_CIOT Rel-16 CR0417R- Cat B*  *Invalid WI code*  Revision of S1-193085. |
| CR | [S1-193528](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193528.zip) | Qualcomm | CR22.261v16.9.0 UAC for NB-IOT | Agreed | *WI code 5G\_CIOT Rel-16 CR0417R- Cat B*  *Invalid WI code*  *Revision of S1-193085.*  Revision of S1-193457. |
| CR | [S1-193087](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193087.zip) | Qualcomm | CR22.261v17.0.1 UAC for NB-IOT | Revised to S1-193529 | *WI code* 5G\_CIOT *Rel-17 CR0418R- Cat A*  Invalid WI code |
| CR | [S1-193458](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193458.zip) | Qualcomm | CR22.261v17.0.1 UAC for NB-IOT | Withdrawn | *WI code 5G\_CIOT Rel-17 CR0418R- Cat A*  *Invalid WI code*  Revision of S1-193087. |
| CR | [S1-193529](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193529.zip) | Qualcomm | CR22.261v17.0.1 UAC for NB-IOT | Agreed | *WI code 5G\_CIOT Rel-17 CR0418R- Cat A*  *Invalid WI code*  *Revision of S1-193087.* |
| OUT | [S1-193460](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193460.zip) | Qualcom | [DRAFT] Reply on LS on UAC for NB-IoT | Revised to S1-193530 |  |
| OUT | [S1-193530](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193530.zip) | Qualcom | [DRAFT] Reply on LS on UAC for NB-IoT | Revised to S1-193592 | Revision of S1-193460.  Remove DRAFT and highlights |
| OUT | [S1-193592](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193592.zip) | Qualcom | [DRAFT] Reply on LS on UAC for NB-IoT | Agreed | *Revision of S1-193460.*  *Remove DRAFT and highlights*  Revision of S1-193530.  No presentation |
| **5G-SRVCC** | | | | | |
| TO | [S1-193214](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193214.zip) | S2-1910682 | LS on 5G-SRVCC from NG-RAN to UTRAN for emergency calls | Noted |  |
| OUT | [S1-193151](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193151.zip) | Nokia | Reply LS on 5G-SRVCC from NG-RAN to UTRAN for emergency calls | Revised to S1-193504 |  |
| OUT | [S1-193504](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193504.zip) | Nokia | Reply LS on 5G-SRVCC from NG-RAN to UTRAN for emergency calls | Revised to S1-193522 | Revision of S1-193151. |
| OUT | [S1-193522](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193522.zip) | Nokia | Reply LS on 5G-SRVCC from NG-RAN to UTRAN for emergency calls | Revised to S1-193593 | *Revision of S1-193151.*  Revision of S1-193504.  Adding SA plenary to CC |
| OUT | [S1-193593](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193593.zip) | Nokia | Reply LS on 5G-SRVCC from NG-RAN to UTRAN for emergency calls | Agreed | *Revision of S1-193151.*  *Revision of S1-193504.*  *Adding SA plenary to CC*  Revision of S1-193522.  No presentation |
| **Non-Public Networks** | | | | | |
| TO | [S1-193215](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193215.zip) | S2-1910803 | LS on clarifications on Private Networks (S2-1908696 / R3-194786) | Noted |  |
| Cont | [S1-193158](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193158.zip) | Deutsche Telekom | Number of CAG Identifiers per PLMN per UE | Noted |  |
| OUT | [S1-193090](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193090.zip) | Qualcomm | [DRAFT] Reply LS on NPN clarifications | Revised to S1-193459 |  |
| OUT | [S1-193459](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193459.zip) | Qualcomm | [DRAFT] Reply LS on NPN clarifications | Revised to S1-193524 | Revision of S1-193090. |
| OUT | [S1-193524](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193524.zip) | Qualcomm | [DRAFT] Reply LS on NPN clarifications | Revised to S1-193594 | *Revision of S1-193090.*  Revision of S1-193459. |
| OUT | [S1-193594](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193594.zip) | Qualcomm | [DRAFT] Reply LS on NPN clarifications | Revised to S1-193605 | *Revision of S1-193090.*  *Revision of S1-193459.*  Revision of S1-193524.  Change last paragraph “would” into “could”. |
| OUT | [S1-193605](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193605.zip) | Qualcomm | [DRAFT] Reply LS on NPN clarifications | Agreed | *Revision of S1-193090.*  *Revision of S1-193459.*  *Revision of S1-193524.*  *Change last paragraph “would” into “could”.*  Revision of S1-193594.  No presentation |
| CR | [S1-193520](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193520.zip) | Deutsche Telekom | CR 22.261v16.9.0 CAG definition and related requirements | Noted | *WI code* TEI16 *Rel-16 CR0433R- Cat F* |
| **IMS signalling** | | | | | |
| TO | [S1-193199](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193199.zip) | C1-191681 (Huawei) | LS on enhanced access control for IMS signalling | Noted |  |
| TO | [S1-193452](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193452.zip) | C1-199007 | LS on enhanced access control for IMS signalling | Noted |  |
| Cont | [S1-193071](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193071.zip) | NTT DOCOMO | Coexistence of Rel-16 UE and Rel-15 NW in case of updating UAC by introducing a new access category 9 for IMS registration related signalling | Noted |  |
| CR | [S1-193063](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193063.zip) | NTT DOCOMO, KDDI, Intel | CR22.261v16.9.0 Unified Access Control for IMS registration related signalling | Revised to S1-193461 | *WI code* TEI16 *Rel-16 CR0409R- Cat F* |
| CR | [S1-193461](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193461.zip) | NTT DOCOMO, KDDI, Intel | CR22.261v16.9.0 Unified Access Control for IMS registration related signalling | Agreed | *WI code TEI16 Rel-16 CR0409R- Cat F*  Revision of S1-193063. |
| CR | [S1-193068](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193068.zip) | NTT DOCOMO, KDDI, Intel | CR22.261v17.0.1 Unified Access Control for IMS registration related signalling | Revised to S1-193462 | *WI code* TEI16 *Rel-16 CR0411R- Cat A* |
| CR | [S1-193462](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193462.zip) | NTT DOCOMO, KDDI, Intel | CR22.261v17.0.1 Unified Access Control for IMS registration related signalling | Agreed | *WI code TEI16 Rel-16 CR0411R- Cat A*  Revision of S1-193068. |
| OUT | [S1-193075](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193075.zip) | NTT DOCOMO | [DRAFT] Reply LS on enhanced access control for IMS signalling | Revised to S1-193467 | Add Reply to the title. |
| OUT | [S1-193467](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193467.zip) | NTT DOCOMO | [DRAFT] Reply LS on enhanced access control for IMS signalling | Revised to S1-193525 | *Add Reply to the title.*  Revision of S1-193075. |
| OUT | [S1-193525](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193525.zip) | NTT DOCOMO | [DRAFT] Reply LS on enhanced access control for IMS signalling | Revised to S1-193595 | *Add Reply to the title.*  *Revision of S1-193075.*  Revision of S1-193467.  Adding SA plenary to CC |
| OUT | [S1-193595](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193595.zip) | NTT DOCOMO | [DRAFT] Reply LS on enhanced access control for IMS signalling | Agreed | *Add Reply to the title.*  *Revision of S1-193075.*  *Revision of S1-193467.*  *Adding SA plenary to CC*  Revision of S1-193525.  No presentation |
| Cont | [S1-193159](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193159.zip) | Intel | Proposal for Different Access Control Treatment for IMS signalling in EPS | Noted |  |
| CR | [S1-193160](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193160.zip) | Intel | CR22.011v16.4.0 Enhanced access control for IMS registration related signalling in EPS | Noted | *WI code* TEI16 *Rel-16 CR0411R- Cat B* |
| **SUCI computation from an NSI** | | | | | |
| TO | [S1-193205](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193205.zip) | CP-192262 | LS on SUCI computation from an NSI | Noted |  |
| OUT | [S1-193089](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193089.zip) | Qualcomm | [DRAFT] Reply LS on NSI requirements | Revised to S1-193468 |  |
| OUT | [S1-193468](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193468.zip) | Qualcomm | [DRAFT] Reply LS on NSI requirements | Revised to S1-193526 | Revision of S1-193089. |
| OUT | [S1-193526](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193526.zip) | Qualcomm | [DRAFT] Reply LS on NSI requirements | Revised to S1-193596 | *Revision of S1-193089.*  Revision of S1-193468.  Delete “ for Rel-15 and …” |
| OUT | [S1-193596](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193596.zip) | Qualcomm | [DRAFT] Reply LS on NSI requirements | Agreed | *Revision of S1-193089.*  *Revision of S1-193468.*  *Delete “ for Rel-15 and …” and not revision marks*  Revision of S1-193526.  No presentation |
| **Others** | | | | | |
| TO | [S1-193202](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193202.zip) | C1-196994 | LS on Advanced Mobile Location | Noted |  |
| TO | [S1-193200](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193200.zip) | S4-191073 | Reply LS on Medical Video Bitrates | Noted |  |
| OUT | [S1-193469](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193469.zip) | B<>com | [DRAFT] Reply LS on Medical Video Bitrates | Revised to S1-193291 |  |
| OUT | [S1-193291](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193291.zip) | B<>com | [DRAFT] Reply LS on Medical Video Bitrates | Revised to S1-193527 | Revision of S1-193469. |
| OUT | [S1-193527](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193527.zip) | B<>com | [DRAFT] Reply LS on Medical Video Bitrates | Agreed | *Revision of S1-193469.*  Revision of S1-193291.  No presentation |
| TO | [S1-193454](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193454.zip) | C1-199047 | LS on Manual CAG Selection | Postponed |  |
| OUT | [S1-193470](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193470.zip) | NTT DOCOMO | [DRAFT] Reply on LS on Manual CAG Selection | Revised to S1-193471 |  |
| OUT | [S1-193471](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193471.zip) | NTT DOCOMO | [DRAFT] Reply on LS on Manual CAG Selection | Withdrawn | Revision of S1-193470. |
| TO | [S1-193455](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193455.zip) | S6-192394 | LS on UE types in TS 22.262 | Postponed |  |
| **Incoming LS proposed to be noted without presentation:** | | | | | |
| TO | [S1-193206](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193206.zip) | O-RAN Alliance | LS on O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs | Noted | Propose to note without presentation |
| CC | [S1-193218](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193218.zip) | SP-190947 | Reply LS to “O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs” | Noted | Response already given by SA. No response from SA1 needed.  Propose to note without presentation |
| CC | [S1-193201](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193201.zip) | 5GAA WG1 | Reply LS on C-V2X Sensor Sharing of Media and Object Information | Noted | No action required  Propose to note without presentation |
| CC | [S1-193203](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193203.zip) | C3-194330 | LS Reply on maximum value of MDBV | Noted | No action required  Propose to note without presentation |
| CC | [S1-193204](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193204.zip) | C4-194314 | Reply LS to LS on maximum value of MDBV | Noted | No action required  Propose to note without presentation |
| CC | [S1-193207](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193207.zip) | R1-1909894 | Reply LS on maximum value of MDBV | Noted | No action required  Propose to note without presentation |
| CC | [S1-193209](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193209.zip) | R2-1911864 | LS on maximum value of MDBV (S2-1907955/R2-1908654) | Noted | No action required  Propose to note without presentation |
| CC | [S1-193211](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193211.zip) | R3-194553 | LS on maximum value of MDBV (S2-1907955/R3-193332) | Noted | No action required  Propose to note without presentation |
| CC | [S1-193208](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193208.zip) | R2-1911790 | Reply LS on bulk authentication issue for IoT devices | Noted | No action required  Propose to note without presentation |
| CC | [S1-193212](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193212.zip) | R3-194785 | Reply LS on RAN sharing and Emergency services with Non-Public Networks | Noted | No action required  Propose to note without presentation |
| CC | [S1-193213](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193213.zip) | S2-1910663 | Reply LS on LS on maximum value of MDBV | Noted | No action required  Propose to note without presentation |
| CC | [S1-193216](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193216.zip) | S6-192003 | LS on aspects of Mission Critical Services over 5MBS | Noted | No action required  Propose to note without presentation |
| CC | [S1-193456](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193456.zip) | S6-192404 | LS on further aspects of Mission Critical Services over 5MBS | Noted | No action required  Propose to note without presentation |
| CC | [S1-193217](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193217.zip) | SP-190946 | Liaison on Enhancements of Cell-Broadcast based Public Warning Service over 3GPP Systems | Noted | No action required  Propose to note without presentation |
| CC | [S1-193453](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193453.zip) | C1-199046 | LS on Dual-registration requirements for EHPLMNs | Noted | No action required  Propose to note without presentation |
| Cont | [S1-193062](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193062.zip) | NTT Docomo | Unified Access Control for IMS registration related signalling | Withdrawn |  |
| New Study and Work Items (including related contributions) | | | | | |
| **WIDs related to existing Rel-17 SIDs** | | | | | |
| WID | [S1-193038](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193038.zip) | China Telecom, OPPO, Tencent, Xiaomi, Huawei, Huawei Device | Revision of WID on Network Controlled Interactive Service (NCIS) Requirements | Revised to S1-193473 |  |
| WID | [S1-193473](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193473.zip) | China Telecom, OPPO, Tencent, Xiaomi, Huawei, Huawei Device | Revision of WID on Network Controlled Interactive Service (NCIS) Requirements | Revised to S1-193597 | Revision of S1-193038. |
| WID | [S1-193597](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193597.zip) | China Telecom, OPPO, Tencent, Xiaomi, Huawei, Huawei Device | Revision of WID on Network Controlled Interactive Service (NCIS) Requirements | Agreed | *Revision of S1-193038.*  Revision of S1-193473.  Section 8 blank.  No presentation |
| Cont | [S1-193152](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193152.zip) | Siemens | Motivation for revision of Work Item eCAV on cyberCAV topics | Noted |  |
| WID | [S1-193153](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193153.zip) | Siemens | Revised WID on service requirements on enhancements for cyber-physical control applications in vertical domains (eCAV) | Revised to S1-193463 | 4 supporting companies needed |
| WID | [S1-193463](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193463.zip) | Siemens | Revised WID on service requirements on enhancements for cyber-physical control applications in vertical domains (eCAV) | Revised to S1-193474 | *4 supporting companies needed*  Revision of S1-193153. |
| WID | [S1-193474](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193474.zip) | Siemens | Revised WID on service requirements on enhancements for cyber-physical control applications in vertical domains (eCAV) | Revised to S1-193613 | *4 supporting companies needed*  *Revision of S1-193153.*  Revision of S1-193463. |
| WID | [S1-193613](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193613.zip) | Siemens | Revised WID on service requirements on enhancements for cyber-physical control applications in vertical domains (eCAV) | Revised to S1-193617 | *4 supporting companies needed*  *Revision of S1-193153.*  *Revision of S1-193463.*  Revision of S1-193474.  No changes on changes and remove question marks from table of supporting companies. |
| WID | [S1-193617](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193617.zip) | Siemens | Revised WID on service requirements on enhancements for cyber-physical control applications in vertical domains (eCAV) | Agreed | *4 supporting companies needed*  *Revision of S1-193153.*  *Revision of S1-193463.*  *Revision of S1-193474.*  *No changes on changes and remove question marks from table of supporting companies.*  Revision of S1-193613.  No presentation |
| WID | [S1-193197](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193197.zip) | EBU | Revised WID on Audio-Visual Service Production | Revised to S1-193475 | 4 supporting companies needed  Wrong revision header |
| WID | [S1-193475](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193475.zip) | EBU | Revised WID on Audio-Visual Service Production | Revised to S1-193614 | *4 supporting companies needed*  *Wrong revision header*  Revision of S1-193197.  Changes on the supporting company. And check supporting companies. |
| WID | [S1-193614](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193614.zip) | EBU | Revised WID on Audio-Visual Service Production | Agreed | *4 supporting companies needed*  *Wrong revision header*  *Revision of S1-193197.*  *Changes on the supporting company. And check supporting companies.*  Revision of S1-193475.  No presentation |
| **New WIDs/SIDs not related to existing Rel-17 SIDs** | | | | | |
| WID | [S1-193029](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193029.zip) | China Telecom, OMESH, Huawei, ZTE, CATT, Fudan | Study on the Ecosystem of Smart Energy and Infrastructure | Revised to S1-193476 | It is not a revision |
| WID | [S1-193476](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193476.zip) | China Telecom, OMESH, Huawei, ZTE, CATT, Fudan | Study on the Ecosystem of Smart Energy and Infrastructure | Noted | *It is not a revision*  Revision of S1-193029. |
| Cont | [S1-193039](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193039.zip) | OPPO, CMCC, China Telecom, China Unicom | Discussion on AI/ML Model Transfer in 5GS | Noted |  |
| WID | [S1-193040](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193040.zip) | OPPO, CMCC, China Telecom, China Unicom, Qualcomm | SID Proposal: Study on AI/ML Model Transfer in 5GS | Revised to S1-193479 |  |
| WID | [S1-193479](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193479.zip) | OPPO, CMCC, China Telecom, China Unicom, Qualcomm | SID Proposal: Study on AI/ML Model Transfer in 5GS | Revised to S1-193531 | Revision of S1-193040. |
| WID | [S1-193531](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193531.zip) | OPPO, CMCC, China Telecom, China Unicom, Qualcomm | SID Proposal: Study on AI/ML Model Transfer in 5GS | Revised to S1-193598 | *Revision of S1-193040.*  Revision of S1-193479. |
| WID | [S1-193598](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193598.zip) | OPPO, CMCC, China Telecom, China Unicom, Qualcomm | SID Proposal: Study on AI/ML Model Transfer in 5GS | Revised to S1-193606 | *Revision of S1-193040.*  *Revision of S1-193479.*  Revision of S1-193531.  Change “KPI” into “performance requirements” |
| WID | [S1-193606](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193606.zip) | OPPO, CMCC, China Telecom, China Unicom, Qualcomm | SID Proposal: Study on AI/ML Model Transfer in 5GS | Agreed | *Revision of S1-193040.*  *Revision of S1-193479.*  *Revision of S1-193531.*  *Change “KPI” into “performance requirements”*  Revision of S1-193598.  No presentation |
| WID | [S1-193127](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193127.zip) | Charter Communications | New WID on IMS emergency support for SNPN | Revised to S1-193480 |  |
| WID | [S1-193480](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193480.zip) | Charter Communications | New WID on IMS emergency support for SNPN | Revised to S1-193532 | Revision of S1-193127. |
| WID | [S1-193532](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193532.zip) | Charter Communications | New WID on IMS emergency support for SNPN | Agreed | *Revision of S1-193127.*  Revision of S1-193480.  Removing Note.  No presentation |
| CR | [S1-193129](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193129.zip) | Charter Communications | CR 22.261v17.0.1 Supporting IMS emergency for NPN | Revised to S1-193481 | WI code *Dummy WID* Rel-17 CR0425R- Cat B |
| CR | [S1-193481](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193481.zip) | Charter Communications | CR 22.261v17.0.1 Supporting IMS emergency for NPN | Revised to S1-193533 | *WI code Dummy WID Rel-17 CR0425R- Cat B*  Revision of S1-193129.  No changes on changes. Used “Subject to” |
| CR | [S1-193533](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193533.zip) | Charter Communications | CR 22.261v17.0.1 Supporting IMS emergency for NPN | Agreed | *WI code Dummy WID Rel-17 CR0425R- Cat B*  *Revision of S1-193129.*  *No changes on changes. Used “Subject to”*  Revision of S1-193481.  No presentation |
| CR | [S1-193130](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193130.zip) | Charter Communications | CR 22.101v17.0.0 IMS emergency requirement for NPN | Revised to S1-193482 | WI code *Dummy WID* Rel-17 CR0563R- Cat B |
| CR | [S1-193482](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193482.zip) | Charter Communications | CR 22.101v17.0.0 IMS emergency requirement for NPN | Revised to S1-193534 | *WI code Dummy WID Rel-17 CR0563R- Cat B*  Revision of S1-193130. |
| CR | [S1-193534](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193534.zip) | Charter Communications | CR 22.101v17.0.0 IMS emergency requirement for NPN | Revised to S1-193600 | *WI code Dummy WID Rel-17 CR0563R- Cat B*  *Revision of S1-193130.*  Revision of S1-193482. |
| CR | [S1-193600](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193600.zip) | Charter Communications | CR 22.101v17.0.0 IMS emergency requirement for NPN | Agreed | *WI code Dummy WID Rel-17 CR0563R- Cat B*  *Revision of S1-193130.*  *Revision of S1-193482.*  Revision of S1-193534. |
| CR | [S1-193132](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193132.zip) | Charter Communications | CR 22.228v16.1.0 IMS emergency requirement for NPN with IMS voice | Revised to S1-193483 | WI code *Dummy WID* Rel-17 CR0233R- Cat B |
| CR | [S1-193483](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193483.zip) | Charter Communications | CR 22.228v16.1.0 IMS emergency requirement for NPN with IMS voice | Revised to S1-193535 | *WI code Dummy WID Rel-17 CR0233R- Cat B*  Revision of S1-193132. |
| CR | [S1-193535](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193535.zip) | Charter Communications | CR 22.228v16.1.0 IMS emergency requirement for NPN with IMS voice | Agreed | *WI code Dummy WID Rel-17 CR0233R- Cat B*  *Revision of S1-193132.*  Revision of S1-193483.  No presentation |
| WID | [S1-193139](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193139.zip) | vivo Mobile Communications Ltd, BlackBerry UK Ltd | Study on Network Name functionality to support multiple languages | Revised to S1-193449 | 4 supporting companies needed |
| WID | [S1-193449](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193449.zip) | vivo Mobile Communications Ltd, BlackBerry UK Ltd | Study on Network Name functionality to support multiple languages | Revised to S1-193472 | *4 supporting companies needed*  Revision of S1-193139. |
| WID | [S1-193472](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193472.zip) | vivo Mobile Communications Ltd, BlackBerry UK Ltd | Study on Network Name functionality to support multiple languages | Noted | *4 supporting companies needed*  *Revision of S1-193139.*  Revision of S1-193449. |
| WID | [S1-193124](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193124.zip) | TNO | Satellite access performance requirements | Revised to S1-193484 | 4 supporting companies needed |
| WID | [S1-193484](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193484.zip) | TNO | Satellite access performance requirements | Noted | *4 supporting companies needed*  Revision of S1-193124. |
| CR | [S1-193146](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193146.zip) | TNO | CR22.261v17.01 Performance requirements for satellite access | Revised to S1-193445 | WI code *SatPERF* Rel-17 CR0428R- Cat B |
| CR | [S1-193445](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193445.zip) | TNO | CR22.261v17.01 Performance requirements for satellite access | Revised to S1-193485 | *WI code SatPERF Rel-17 CR0428R- Cat B*  Revision of S1-193146. |
| CR | [S1-193485](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193485.zip) | TNO | CR22.261v17.01 Performance requirements for satellite access | Noted | *WI code SatPERF Rel-17 CR0428R- Cat B*  *Revision of S1-193146.*  Revision of S1-193445. |
| WID | [S1-193031](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193031.zip) | THALES, TNO | Study on Extra-territorial 5G Systems | Revised to S1-193486 | 4 supporting companies needed  *Moved from 11.1* |
| WID | [S1-193486](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193486.zip) | THALES, TNO | Study on Extra-territorial 5G Systems | Revised to S1-193536 | *4 supporting companies needed*  *Moved from 11.1*  Revision of S1-193031. |
| WID | [S1-193536](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193536.zip) | THALES, TNO | Study on Extra-territorial 5G Systems | Revised to S1-193599 | *4 supporting companies needed*  *Moved from 11.1*  *Revision of S1-193031.*  Revision of S1-193486. |
| WID | [S1-193599](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193599.zip) | THALES, TNO | Study on Extra-territorial 5G Systems | Revised to S1-193615 | *4 supporting companies needed*  *Moved from 11.1*  *Revision of S1-193031.*  *Revision of S1-193486.*  Revision of S1-193536.  No revision marks and no highlight text. Editorial include s. |
| WID | [S1-193615](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193615.zip) | THALES, TNO | Study on Extra-territorial 5G Systems | Agreed | *4 supporting companies needed*  *Moved from 11.1*  *Revision of S1-193031.*  *Revision of S1-193486.*  *Revision of S1-193536.*  *No revision marks and no highlight text. Editorial include s.*  Revision of S1-193599.  No presentation |
| Quality improvement contributions Quality improvements to requirements in TRs or TSs are encouraged (pCRs or CRs). In order to allow delegates to provide quality improvement contributions for work/study items where they do not want to attend drafting sessions, contributions submitted to this agenda item are handled in plenary. | | | | | |
| CR | [S1-193112](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193112.zip) | Vodafone | CR 22.261v17.0.1 Editorial changes and corrections | Revised to S1-193487 | WI code *SMARTER\_Ph2* Rel-17 CR0423R- Cat B  *Invalid WI code for Rel17* |
| CR | [S1-193487](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193487.zip) | Vodafone | CR 22.261v17.0.1 Editorial changes and corrections | Revised to S1-193537 | *WI code SMARTER\_Ph2 Rel-17 CR0423R- Cat B*  *Invalid WI code for Rel17*  Revision of S1-193112. |
| CR | [S1-193537](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193537.zip) | Vodafone | CR 22.261v17.0.1 Editorial changes and corrections | Agreed | *WI code SMARTER\_Ph2 Rel-17 CR0423R- Cat B*  *Invalid WI code for Rel17*  *Revision of S1-193112.*  Revision of S1-193487.  No presentation |
| Cont | [S1-193137](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193137.zip) | Vodafone | Relationship among specifications of 5G service requirements | Noted |  |
| CR | [S1-193142](D:\\3GPP_SA1\\TSGS1_88_Reno\\Docs\\S1-193142.zip) | ESA | CR 22.261v17.0.1 Clarifications and updates on the description of positioning use cases in Appendix B and E | Revised to S1-193488 | WI code *SMARTER\_Ph2* Rel-17 CR0427R- Cat B  *Invalid WI code for Rel17* |
| CR | [S1-193488](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193488.zip) | ESA | CR 22.261v16.9.0 Clarifications and updates on the description of positioning use cases in Appendix B and E | Revised to S1-193538 | *WI code SMARTER\_Ph2 Rel-16 CR0427R- Cat B*  Revision of S1-193142. |
| CR | [S1-193538](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193538.zip) | ESA | CR 22.261v16.9.0 Clarifications and updates on the description of positioning use cases in Appendix B and E | Agreed | *WI code SMARTER\_Ph2 Rel-16 CR0427R- Cat B*  *Revision of S1-193142.*  Revision of S1-193488.  No presentation |
| CR | [S1-193489](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193489.zip) | ESA | CR 22.261v17.0.1 Clarifications and updates on the description of positioning use cases in Appendix B and E | Revised to S1-193539 | *WI code SMARTER\_Ph2 Rel-16 CR0432R- Cat A*  Revision of S1-193142. |
| CR | [S1-193539](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193539.zip) | ESA | CR 22.261v17.0.1 Clarifications and updates on the description of positioning use cases in Appendix B and E | Agreed | *WI code SMARTER\_Ph2 Rel-16 CR0432R- Cat A*  *Revision of S1-193142.*  Revision of S1-193489.  No presentation |
| CR | [S1-193264](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193264.zip) | FirstNet | CR 22.280v17.1.0 Editorial correction to broadcast regroup requirements | Revised to S1-193490 | WI code *MONASTERY2* Rel-17 CR137R- Cat D  *Invalid WI code for Rel17* |
| CR | [S1-193490](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193490.zip) | FirstNet | CR 22.280v17.1.0 Editorial correction to broadcast regroup requirements | Agreed | *WI code MONASTERY2 Rel-17 CR137R- Cat D*  *Invalid WI code for Rel17*  Revision of S1-193264.  No presentation |
| Rel-16 and earlier contributions | | | | | |
| Rel-16 correction and clarification CRs | | | | | |
| CR | [S1-193060](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193060.zip) | Qualcomm | CR 22.261v16.9.0 Clarify requirements for bulk IoT operation | Revised to S1-193491 | WI code *SMARTER\_Ph2* Rel-16 CR0407R- Cat F |
| CR | [S1-193491](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193491.zip) | Qualcomm | CR 22.261v16.9.0 Clarify requirements for bulk IoT operation | Agreed | *WI code SMARTER\_Ph2 Rel-16 CR0407R- Cat F*  Revision of S1-193060.  No presentation |
| CR | [S1-193065](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193065.zip) | Qualcomm | CR 22.261v17.0.1 Clarify requirements for bulk IoT operation | Revised to S1-193492 | WI code *SMARTER\_Ph2* Rel-17 CR0410R- Cat A |
| CR | [S1-193492](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193492.zip) | Qualcomm | CR 22.261v17.0.1 Clarify requirements for bulk IoT operation | Withdrawn | *WI code SMARTER\_Ph2 Rel-17 CR0410R- Cat A*  Revision of S1-193065. |
| CR | [S1-193070](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193070.zip) | Qualcomm, Vodafone, CMCC | CR 22.261v17.0.1 Clarify requirements for bulk IoT authentication | Revised to S1-193493 | WI code SMARTER\_Ph2Rel-17 CR0412R- Cat F  Moved from 10 |
| CR | [S1-193493](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193493.zip) | Qualcomm, Vodafone, CMCC | CR 22.261v17.0.1 Clarify requirements for bulk IoT authentication | Agreed | *WI code SMARTER\_Ph2Rel-17 CR0412R- Cat F*  *Moved from 10*  Revision of S1-193070.  No presentation |
| CR | [S1-193263](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193263.zip) | FirstNet | CR 22.280v16.6.0 Addition of user broadcast regroup requirement | Revised to S1-193494 | WI code *MONASTERY2* Rel-16 CR137R- Cat B |
| CR | [S1-193494](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193494.zip) | FirstNet | CR 22.280v16.6.0 Addition of user broadcast regroup requirement | Agreed | *WI code MONASTERY2 Rel-16 CR137R- Cat B*  Revision of S1-193263.  No presentation |
| Release 15 Alignment CRs (aligning Stage 1 specifications with what has been implemented in Stage 2 and 3) As Release 15 is now frozen, alignment CRs are appreciated. | | | | | |
| Rel-15 and earlier CRs (other than alignment) | | | | | |
| CR | [S1-193119](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193119.zip) | KPN | CR 22.115v16.1.0 Charging requirements for small data transmission | Revised to S1-193495 | *WI code REFEC Rel-17 CR0098R- Cat F*  *Moved from 8.5* |
| CR | [S1-193495](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193495.zip) | KPN | CR 22.115v13.3.0 Charging requirements for small data transmission | Revised to S1-193581 | *WI code TEI13 Rel-13 CR0098R- Cat F*  *Moved from 8.5*  Revision of S1-193119. |
| CR | [S1-193581](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193581.zip) | KPN | CR 22.115v13.3.0 Charging requirements for small data transmission | Agreed | *WI code TEI13 Rel-13 CR0098R- Cat F*  *Moved from 8.5*  *Revision of S1-193119.*  Revision of S1-193495.  Boxes cover page + date.  No presentation |
| CR | [S1-193496](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193496.zip) | KPN | CR 22.115v14.2.0 Charging requirements for small data transmission | Revised to S1-193582 | *WI code TEI13 Rel-14 CR0099R- Cat F*  *Moved from 8.5*  Revision of S1-193119. |
| CR | [S1-193582](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193582.zip) | KPN | CR 22.115v14.2.0 Charging requirements for small data transmission | Agreed | *WI code TEI13 Rel-14 CR0099R- Cat F*  *Moved from 8.5*  *Revision of S1-193119.*  Revision of S1-193496.  CR should be cat. A  No presentation |
| CR | [S1-193497](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193497.zip) | KPN | CR 22.115v15.5.0 Charging requirements for small data transmission | Agreed | *WI code TEI13 Rel-15 CR0100R- Cat F*  *Moved from 8.5*  Revision of S1-193119. |
| CR | [S1-193498](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193498.zip) | KPN | CR 22.115v16.1.0 Charging requirements for small data transmission | Revised to S1-193583 | *WI code TEI13 Rel-16 CR0101R- Cat F*  *Moved from 8.5*  Revision of S1-193119. |
| CR | [S1-193583](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193583.zip) | KPN | CR 22.115v16.1.0 Charging requirements for small data transmission | Agreed | *WI code TEI13 Rel-16 CR0101R- Cat F*  *Moved from 8.5*  *Revision of S1-193119.*  Revision of S1-193498. |
| CR | [S1-193499](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193499.zip) | KPN | CR 22.115v16.1.0 Charging requirements for small data transmission | Noted | *WI code TEI13 Rel-17 CR0102R- Cat F*  *Moved from 8.5*  Revision of S1-193119. |
| Rel-17 contributions | | | | | |
| NCIS | | | | | |
| **FS\_NCIS** | | | | | |
| CR | [S1-193030](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193030.zip) | Tencent, OPPO | CR 22.842v17.1.0 Update of KPI table to be aligned with TS 22.261 | Revised to S1-193261 | *WI code* FS\_NCIS *Rel-17 CRXXXXR- Cat F*  *Need CRnumber*  *Moved from 8.13* |
| CR | [S1-193261](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193261.zip) | Tencent, OPPO | CR 22.842v17.1.0 Update of KPI table to be aligned with TS 22.261 | Revised to S1-193285 | *WI code FS\_NCIS Rel-17 CR003R- Cat F*  *Moved from 8.13*  Revision of S1-193030. |
| CR | [S1-193285](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193185.zip) | Tencent, OPPO | CR 22.842v17.1.0 Update of KPI table to be aligned with TS 22.261 | Revised to S1-193313 | *WI code FS\_NCIS Rel-17 CR003R- Cat F*  *Moved from 8.13*  *Revision of S1-193030.*  Revision of S1-193261. |
| CR | [S1-193313](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193313.zip) | Tencent, OPPO | CR 22.842v17.1.0 Update of KPI table to be aligned with TS 22.261 | Agreed | *WI code FS\_NCIS Rel-17 CR003R- Cat F*  *Moved from 8.13*  *Revision of S1-193030.*  *Revision of S1-193261.*  Revision of S1-193185. |
| NCIS: Network Controlled Interactive Service Requirements[[SP-190303](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1021244)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Ning Yang (OPPO)  Target completion date: SA#86 (12/2019)  Percentage completion: 85% | | | | | |
| Cont | [S1-193011](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193011.zip) | Samsung | NCIS Group Requirements | Noted |  |
| CR | [S1-193012](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193012.zip) | Samsung | CR 22.115v16.1.0 Introduction of NCIS Charging Requirements | Revised to S1-193284 | WI code *NCIS* Rel-17 CR0096R- Cat B |
| CR | [S1-193284](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193284.zip) | Samsung | CR 22.115v16.1.0 Introduction of NCIS Charging Requirements | Agreed | *WI code NCIS Rel-17 CR0096R- Cat B*  Revision of S1-193012.  Related to 3103/KPN/REFEC (3012/NCIS) |
| CR | [S1-193013](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193013.zip) | Samsung, OPPO | CR 22.468v15.0.0 Introduction of NCIS Service Requirements | Revised to S1-193311 | WI code *NCIS* Rel-17 CR0016R- Cat B |
| CR | [S1-193311](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193311.zip) | Samsung, OPPO | CR 22.468v15.0.0 Introduction of NCIS Service Requirements | Revised to S1-193310 | *WI code NCIS Rel-17 CR0016R- Cat B*  Revision of S1-193013. |
| CR | [S1-193310](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193310.zip) | Samsung, OPPO | CR 22.468v15.0.0 Introduction of NCIS Service Requirements | Revised to S1-193563 | *WI code NCIS Rel-17 CR0016R- Cat B*  *Revision of S1-193013.*  Revision of S1-193311.  Change to “3GPP system” in the new requirements. |
| CR | [S1-193563](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193563.zip) | Samsung, OPPO | CR 22.468v15.0.0 Introduction of NCIS Service Requirements | Agreed | *WI code NCIS Rel-17 CR0016R- Cat B*  *Revision of S1-193013.*  *Revision of S1-193311.*  *Change to “3GPP system” in the new requirements and text.*  Revision of S1-193310.  No presentation |
| CR | [S1-193021](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193021.zip) | China Mobile, OPPO | CR 22.261v17.0.1 CR for group information provided from 3rd party | Revised to S1-193312 | WI code *NCIS* Rel-17 CR0402R- Cat B |
| CR | [S1-193312](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193312.zip) | China Mobile, OPPO | CR 22.261v17.0.1 CR for group information provided from 3rd party | Withdrawn | *WI code NCIS Rel-17 CR0402R- Cat B*  Revision of S1-193021. |
| CR | [S1-193036](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193036.zip) | China Telecom, OPPO | CR 22.261v17.0.1 CR for group communication in 5G system | Revised to S1-193037 | WI code *NCIS* Rel-17 CRXXXXR- Cat B  *Missing CR number* |
| CR | [S1-193037](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193037.zip) | China Telecom, OPPO | CR 22.261v17.0.1 CR for group communication in 5G system | Revised to S1-193041 | *WI code NCIS Rel-17 CRXXXXR- Cat B*  *Missing CR number*  Revision of S1-193036. |
| CR | [S1-193041](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193041.zip) | China Telecom, OPPO | CR 22.261v17.0.1 CR for group communication in 5G system | Revised to S1-193314 | *WI code NCIS Rel-17 CRXXXXR- Cat B*  *Missing CR number*  *Revision of S1-193036.*  Revision of S1-193037. |
| CR | [S1-193314](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193314.zip) | China Telecom, OPPO | CR 22.261v17.0.1 CR for group communication in 5G system | Revised to S1-193564 | *WI code NCIS Rel-17 CRXXXXR- Cat B*  *Missing CR number*  *Revision of S1-193036.*  *Revision of S1-193037.*  Revision of S1-193041. |
| CR | [S1-193564](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193564.zip) | China Telecom, OPPO | CR 22.261v17.0.1 CR for group communication in 5G system | Agreed | *WI code NCIS Rel-17 CRXXXXR- Cat B*  *Missing CR number*  *Revision of S1-193036.*  *Revision of S1-193037.*  *Revision of S1-193041.*  Revision of S1-193314.  No presentation |
| CR | S1-193298 | China Telecom, OPPO | CR 22.261v17.0.1 CR for group communication in 5G system | Withdrawn | *WI code NCIS Rel-17 CRXXXXR- Cat B*  *Missing CR number* |
| CR | [S1-193042](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193042.zip) | OPPO | CR 22.261v17.0.1 CR for discovery supporting for ProSe | Noted | WI code *NCIS* Rel-17 CRXXXXR- Cat B  *Missing CR number* |
| CR | [S1-193054](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193054.zip) | Sony | CR 22.261v17.0.1 Tethered VR requirement for 5G | Revised to S1-193299 | WI code *NCIS* Rel-17 CR0405R- Cat B |
| CR | [S1-193299](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193299.zip) | Sony | CR 22.261v17.0.1 Tethered VR requirement for 5G | Revised to S1-193565 | *WI code NCIS Rel-17 CR0405R- Cat B*  Revision of S1-193054.  Editorial changes on the table. |
| CR | [S1-193565](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193565.zip) | Sony | CR 22.261v17.0.1 Tethered VR requirement for 5G | Agreed | *WI code NCIS Rel-17 CR0405R- Cat B*  *Revision of S1-193054.*  *Editorial changes on the table.*  Revision of S1-193299.  No presentation |
| CR | [S1-193074](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193074.zip) | Qualcomm | CR 22.261v17.0.1 Update of NCIS KPI requirements | Revised to S1-193283 | WI code *NCIS* Rel-17 CR0413R- Cat B |
| CR | [S1-193283](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193283.zip) | Qualcomm | CR 22.261v17.0.1 Update of NCIS KPI requirements | Revised to S1-193566 | *WI code NCIS Rel-17 CR0413R- Cat B*  Revision of S1-193074.  Editorial changes on NOTE in table. |
| CR | [S1-193566](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193566.zip) | Qualcomm | CR 22.261v17.0.1 Update of NCIS KPI requirements | Agreed | *WI code NCIS Rel-17 CR0413R- Cat B*  *Revision of S1-193074.*  *Editorial changes on NOTE in table.*  Revision of S1-193283.  No presentation |
| CR | [S1-193058](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193058.zip) | Huawei | VR requirements in 5G | Withdrawn |  |
| AVPROD | | | | | |
| **FS\_AVPROD** | | | | | |
| CR | [S1-193120](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193120.zip) | Sennheiser | CR22.827v17.0.0 Alignment of AVPROD TR with TS 22.263 VIAPA concerning Audio Performance Requirements | Revised to S1-193269 | *WI code* FS\_AVPROD *Rel-17 CR0001R- Cat C*  *Moved from 8.13* |
| CR | [S1-193269](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193269.zip) | Sennheiser | CR22.827v17.0.0 Alignment of AVPROD TR with TS 22.263 VIAPA concerning Audio Performance Requirements | Revised to S1-193569 | *WI code FS\_AVPROD Rel-17 CR0001R- Cat C*  *Moved from 8.13*  Revision of S1-193120.  No presentation |
| CR | [S1-193569](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193569.zip) | Sennheiser | CR22.827v17.0.0 Alignment of AVPROD TR with TS 22.263 VIAPA concerning Audio Performance Requirements | Agreed | *WI code FS\_AVPROD Rel-17 CR0001R- Cat C*  *Moved from 8.13*  *Revision of S1-193120.*  *No presentation*  Revision of S1-193269. |
| AVPROD: Audio-Visual Service Production [[SP-190304](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionUid=SP-190304)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Ian Wagdin (BBC)  Latest version: TS22.263v1.0.0  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| **22.263** | | | | | |
| Cont | [S1-193079](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193079.zip) | Qualcomm | On network exposure requirement | Revised to S1-193265 |  |
| Cont | [S1-193265](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193265.zip) | Qualcomm | On network exposure requirement | Revised to S1-193293 | Revision of S1-193079. |
| Cont | [S1-193293](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193293.zip) | Qualcomm | On network exposure requirement | Agreed | *Revision of S1-193079.*  Revision of S1-193265. |
| Cont | [S1-193091](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193091.zip) | EBU, BBC, Sennheiser | Changes in Section 4.3 of the VIAPA technical specification TS 22.263 | Revised to S1-193266 |  |
| Cont | [S1-193266](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193266.zip) | EBU, BBC, Sennheiser | Changes in Section 4.3 of the VIAPA technical specification TS 22.263 | Revised to S1-193292 | Revision of S1-193091. |
| Cont | [S1-193292](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193292.zip) | EBU, BBC, Sennheiser | Changes in Section 4.3 of the VIAPA technical specification TS 22.263 | Agreed | *Revision of S1-193091.*  Revision of S1-193266.  No presentation |
| Cont | [S1-193118](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193118.zip) | Sennheiser | VIAPA: Update and clean-up of Audio Performance Requirements | Agreed |  |
| Cont | [S1-193125](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193125.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | Clarification on communication service reliability | Agreed |  |
| Cont | [S1-193056](D:\\3GPP_SA1\\TSGS1_88_Reno\\Docs\\S1-193056.zip) | EBU | pCR to TS 22.263 (VIAPA) | Withdrawn |  |
| **Others** | | | | | |
| CR | [S1-193098](D:\\3GPP_SA1\\TSGS1_88_Reno\\Docs\\S1-193098.zip) | EBU, Vodafone | CR 22.261v17.0.1 Addition of AVProd introduction in 22.261 | Revised to S1-193259 | WI code VIAPA Rel-17 CRXXXXR- Cat B  *Missing CR number, is VIAPA the right WI code?* |
| CR | [S1-193259](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193259.zip) | EBU, Vodafone | CR 22.261v17.0.1 Addition of AVProd introduction in 22.261 | Revised to S1-193267 | *WI code VIAPA Rel-17 CRXXXXR- Cat B*  *Missing CR number, is VIAPA the right WI code?*  Revision of S1-193098. |
| CR | [S1-193267](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193267.zip) | EBU, Vodafone | CR 22.261v17.0.1 Addition of AVProd introduction in 22.261 | Revised to S1-193570 | *WI code VIAPA Rel-17 CRXXXXR- Cat B*  *Missing CR number, is VIAPA the right WI code?*  *Revision of S1-193098.*  Revision of S1-193259. |
| CR | [S1-193570](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193570.zip) | EBU, Vodafone | CR 22.261v17.0.1 Addition of AVProd introduction in 22.261 | Agreed | *WI code VIAPA Rel-17 CRXXXXR- Cat B*  *Missing CR number, is VIAPA the right WI code?*  *Revision of S1-193098.*  *Revision of S1-193259.*  Revision of S1-193267.  No presentation |
| CR | [S1-193093](D:\\3GPP_SA1\\TSGS1_88_Reno\\Docs\\S1-193093.zip) | EBU | CR 22.104v17.1.0 Addition of informative annex for AV Prod | Revised to S1-193260 | *WI code* eCAV *Rel-17 CRXXXXR- Cat D*  *No track changes on cover page*  *A revision of the WID is needed, wrong WI code.* |
| CR | [S1-193260](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193260.zip) | EBU | CR 22.104v17.1.0 Addition of informative annex for AV Prod | Revised to S1-193268 | *WI code eCAV Rel-17 CRXXXXR- Cat D*  *No track changes on cover page*  *A revision of the WID is needed, wrong WI code.*  Revision of S1-193093. |
| CR | [S1-193268](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193268.zip) | EBU | CR 22.104v17.1.0 Addition of informative annex for AV Prod | Revised to S1-193571 | *WI code eCAV Rel-17 CRXXXXR- Cat D*  *No track changes on cover page*  *A revision of the WID is needed, wrong WI code.*  *Revision of S1-193093.*  Revision of S1-193260. |
| CR | [S1-193571](file:///C:\Users\josel\Desktop\docs\S1-193571.zip) | EBU | CR 22.104v17.1.0 Addition of informative annex for AV Prod | Revised to S1-193608 | *WI code eCAV Rel-17 CRXXXXR- Cat D*  *No track changes on cover page*  *A revision of the WID is needed, wrong WI code.*  *Revision of S1-193093.*  *Revision of S1-193260.*  Revision of S1-193268. |
| CR | [S1-193608](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193608.zip) | EBU | CR 22.104v17.1.0 Addition of informative annex for AV Prod | Revised to S1-193618 | *WI code eCAV Rel-17 CRXXXXR- Cat D*  *No track changes on cover page*  *A revision of the WID is needed, wrong WI code.*  *Revision of S1-193093.*  *Revision of S1-193260.*  *Revision of S1-193268.*  Revision of S1-193571.  Reject changes on pictures. Correct tdoc history. |
| CR | [S1-193618](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193618.zip) | EBU | CR 22.104v17.1.0 Addition of informative annex for AV Prod | Agreed | *WI code eCAV Rel-17 CRXXXXR- Cat D*  *No track changes on cover page*  *A revision of the WID is needed, wrong WI code.*  *Revision of S1-193093.*  *Revision of S1-193260.*  *Revision of S1-193268.*  *Revision of S1-193571.*  *Reject changes on pictures. Correct tdoc history.*  Revision of S1-193608.  No presentation |
| Cont | [S1-193023](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193023.zip) | China Mobile | Unify unit of service area in talble of performance requirements for medical | Moved to 8.4.2 |  |
| AVPROD output | | | | | |
| TR | S1-193219 | Rapporteur (EBU) | TS22.263v1.1.0 to include agreements at this meeting | Pre-Agreed | No presentation |
| TR | S1-193220 | Rapporteur (EBU) | Cover page for presentation of TS22.263v2.0.0 | Revised to S1-193604 |  |
| TR | [S1-193604](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193604.zip) | Rapporteur (EBU) | Cover page for presentation of TS22.263v2.0.0 | Agreed | Revision of S1-193220. |
| MPS Phase 2 | | | | | |
| **FS\_MPS2** | | | | | |
| CR | [S1-193172](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193172.zip) | Perpsecta Labs, CISA ECD, T-Mobile UA, Verizon, AT&T, Sprint | CR 22.854v17.0.0 Separate two requirements which were erroneously merged | Revised to S1-193364 | *WI code* MPS2 *Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2* |
| CR | [S1-193364](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193364.zip) | Perpsecta Labs, CISA ECD, T-Mobile UA, Verizon, AT&T, Sprint | CR 22.854v17.0.0 Separate two requirements which were erroneously merged | Agreed | *WI code MPS2 Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2*  Revision of S1-193172. |
| CR | [S1-193174](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193174.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Verizon | CR 22.854v17.0.0 Changes to clause 8 (Security considerations) | Revised to S1-193369 | *WI code* MPS2 *Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2* |
| CR | [S1-193369](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193369.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Verizon | CR 22.854v17.0.0 Changes to clause 8 (Security considerations) | Revised to S1-193516 | *WI code MPS2 Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2*  Revision of S1-193174. |
| CR | [S1-193516](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193516.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Verizon | CR 22.854v17.0.0 Changes to clause 8 (Security considerations) | Revised to S1-193385 | *WI code MPS2 Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2*  *Revision of S1-193174.*  Revision of S1-193369. |
| CR | [S1-193385](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193385.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Verizon | CR 22.854v17.0.0 Changes to clause 8 (Security considerations) | Agreed | *WI code MPS2 Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2*  *Revision of S1-193174.*  *Revision of S1-193369.*  Revision of S1-193516.  No presentation |
| MPS Phase 2: Multimedia Priority Service Ph2 [[SP-190561](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1024741)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Ray P Singh (Perspecta Labs)  Target completion date: SA#86 (12/2019)  Percentage completion: 85% | | | | | |
| CR | [S1-193083](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193083.zip) | Qualcomm | CR 22.153v17.0.0 Clarifications on MPS2 requirements and terminology | Revised to S1-193370 | WI code MPS2 Rel-17 CR0043R- Cat B |
| CR | [S1-193370](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193370.zip) | Qualcomm | CR 22.153v17.0.0 Clarifications on MPS2 requirements and terminology | Revised to S1-193389 | *WI code MPS2 Rel-17 CR0043R- Cat B*  Revision of S1-193083. |
| CR | [S1-193389](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193389.zip) | Qualcomm | CR 22.153v17.0.0 Clarifications on MPS2 requirements and terminology | Revised to S1-193568 | *WI code MPS2 Rel-17 CR0043R- Cat B*  *Revision of S1-193083.*  Revision of S1-193370. |
| CR | [S1-193568](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193568.zip) | Qualcomm | CR 22.153v17.0.0 Clarifications on MPS2 requirements and terminology | Agreed | *WI code MPS2 Rel-17 CR0043R- Cat B*  *Revision of S1-193083.*  *Revision of S1-193370.*  Revision of S1-193389. |
| CR | [S1-193161](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193161.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Editorial cleanup to close out MPS Phase 2 additions | Revised to S1-193371 | WI code MPS2 Rel-17 CR0044R- Cat D |
| CR | [S1-193371](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193371.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Editorial cleanup to close out MPS Phase 2 additions | Agreed | *WI code MPS2 Rel-17 CR0044R- Cat D*  Revision of S1-193161. |
| CR | [S1-193162](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193162.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Attestation of Authorized MPS Priority Markings | Revised to S1-193372 | WI code MPS2 Rel-17 CR0045R- Cat B |
| CR | [S1-193372](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193372.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Attestation of Authorized MPS Priority Markings | Revised to S1-193517 | *WI code MPS2 Rel-17 CR0045R- Cat B*  Revision of S1-193162. |
| CR | [S1-193517](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193517.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Attestation of Authorized MPS Priority Markings | Revised to S1-193384 | *WI code MPS2 Rel-17 CR0045R- Cat B*  *Revision of S1-193162.*  Revision of S1-193372. |
| CR | [S1-193384](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193384.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Attestation of Authorized MPS Priority Markings | Agreed | *WI code MPS2 Rel-17 CR0045R- Cat B*  *Revision of S1-193162.*  *Revision of S1-193372.*  Revision of S1-193517.  No presentation |
| CR | [S1-193163](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193163.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Addition of requirements to upgrade an established MMTEL voice call to MPS | Revised to S1-193391 | WI code MPS2 Rel-17 CR0046R- Cat B |
| CR | [S1-193391](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193391.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Sprint | CR 22.153v17.0.0 Addition of requirements to upgrade an established MMTEL voice call to MPS | Agreed | *WI code MPS2 Rel-17 CR0046R- Cat B*  Revision of S1-193163. |
| CR | [S1-193164](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193164.zip) | Perspecta Labs, CISA ECD, T-Mobile, Verizon, AT&T, Sprint | CR 22.953v15.0.0 TR 22.953 Updates based on TR 22.854 MPS Phase 2 Feasibility Study | Revised to S1-193379 | WI code MPS2 Rel-17 CR0003R- Cat D |
| CR | [S1-193379](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193379.zip) | Perspecta Labs, CISA ECD, T-Mobile, Verizon, AT&T, Sprint | CR 22.953v15.0.0 TR 22.953 Updates based on TR 22.854 MPS Phase 2 Feasibility Study | Agreed | *WI code MPS2 Rel-17 CR0003R- Cat D*  Revision of S1-193164. |
| CMED | | | | | |
| FS\_CMED: Feasibility Study on Communication Services for Critical Medical Applications [[SP-180783](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=934370)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Mathieu Lagrange (b<>com)  Latest version: TR22.826v17.0.0  Target completion date: SA#85 (09/2019)  Percentage completion: 90% | | | | | |
| CR | [S1-193057](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193057.zip) | b<>com | CR 22.826v17.0.0 Addition of missing “5.1 Introduction” section | Revised to S1-193572 | *WI code* FS\_CMED *Rel-17 CR0001R- Cat D*  *Moved from 8.13* |
| CR | [S1-193572](file:///C:\Users\josel\Desktop\docs\S1-193572.zip) | b<>com | CR 22.826v17.0.0 Addition of missing “5.1 Introduction” section | Agreed | *WI code FS\_CMED Rel-17 CR0001R- Cat D*  *Moved from 8.13*  Revision of S1-193057.  Filling cover page.  No presentation |
| CR | [S1-193059](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193059.zip) | b<>com | CR 22.826v17.0.0 Addition of missing 5.5.1 section | Revised to S1-193271 | *WI code* FS\_CMED *Rel-17 CR0002R- Cat D*  *Moved from 8.13* |
| CR | [S1-193271](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193271.zip) | b<>com | CR 22.826v17.0.0 Addition of missing 5.5.1 section | Revised to S1-193573 | *WI code FS\_CMED Rel-17 CR0002R- Cat D*  *Moved from 8.13*  Revision of S1-193059.  Fill cover page. Fix font and colors. |
| CR | [S1-193573](file:///C:\Users\josel\Desktop\docs\S1-193573.zip) | b<>com | CR 22.826v17.0.0 Addition of missing 5.5.1 section | Agreed | *WI code FS\_CMED Rel-17 CR0002R- Cat D*  *Moved from 8.13*  *Revision of S1-193059.*  *Fill cover page. Fix font and colors.*  Revision of S1-193271.  No presentation |
| CR | [S1-193064](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193064.zip) | b<>com | CR 22.826v17.0.0 Removal of brackets and correction on required bitrates | Agreed | *WI code* FS\_CMED *Rel-17 CR0003R- Cat F*  *Moved from 8.13* |
| CR | [S1-193078](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193078.zip) | b<>com | CR 22.826v17.0.0 Correction on #UE density for use cases using services delivered by PLMNs | Revised to S1-193286 | *WI code* FS\_CMED *Rel-17 CR0004R- Cat F*  *Moved from 8.13* |
| CR | [S1-193286](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193286.zip) | b<>com | CR 22.826v17.0.0 Correction on #UE density for use cases using services delivered by PLMNs | Agreed | *WI code FS\_CMED Rel-17 CR0004R- Cat F*  *Moved from 8.13*  Revision of S1-193078.  No presentation |
| CR | [S1-193082](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193082.zip) | b<>com, Philips | CR 22.826v17.0.0 Correction of network dependability figures in 22.826 KPI tables | Revised to S1-193574 | *WI code* FS\_CMED *Rel-17 CR0005R- Cat F*  *Moved from 8.13* |
| CR | [S1-193574](file:///C:\Users\josel\Desktop\docs\S1-193574.zip) | b<>com, Philips | CR 22.826v17.0.0 Correction of network dependability figures in 22.826 KPI tables | Agreed | *WI code FS\_CMED Rel-17 CR0005R- Cat F*  *Moved from 8.13*  Revision of S1-193082.  Fill cover page.  No presentation |
| CMED: Communication Service Requirements for Critical Medical Applications [[SP-190306](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionUid=SP-190306)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Mathieu Lagrange (b<>com)  Target completion date: SA#85 (09/2019)  Percentage completion: 80% | | | | | |
| **22.263** | | | | | |
| Cont | [S1-193088](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193088.zip) | b<>com | Correction of CMED KPIs tables | Revised to S1-193287 |  |
| Cont | [S1-193287](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193287.zip) | b<>com | Correction of CMED KPIs tables | Agreed | Revision of S1-193088.  No presentation |
| Cont | [S1-193115](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193115.zip) | b<>com | Update of text in TS 22.263 section 4.4 | Agreed | No presentation |
| Cont | [S1-193023](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193023.zip) | China Mobile | Unify unit of service area in talble of performance requirements for medical | Revised to S1-193288 | *Moved from 8.2.1* |
| Cont | [S1-193288](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193288.zip) | China Mobile | Unify unit of service area in talble of performance requirements for medical | Agreed | *Moved from 8.2.1*  Revision of S1-193023.  No presentation |
| **Others** | | | | | |
| CR | [S1-193084](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193084.zip) | b<>com | CR 22.261v17.0.1 Addition of general section 6.x for CMED | Revised to S1-193134 | WI code CMED Rel-17 CR0416R- Cat D |
| CR | [S1-193134](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193134.zip) | b<>com | CR 22.261v17.0.1 Addition of general section 6.x for CMED | Revised to S1-193289 | *WI code CMED Rel-17 CR0416R1 Cat D*  Revision of S1-193084. |
| CR | [S1-193289](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193289.zip) | b<>com | CR 22.261v17.0.1 Addition of general section 6.x for CMED | Agreed | *WI code CMED Rel-17 CR0416R1 Cat D*  *Revision of S1-193084.*  Revision of S1-193134.  No presentation |
| CR | [S1-193138](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193138.zip) | Philips | CR 22.261v17.0.1 Updating integrity protection requirement based on consolidated CMED requirements | Agreed | *WI code CMED Rel-17 CR0426R1 Cat C* |
| CR | [S1-193086](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193086.zip) | b<>com | CR 22.104v17.1.0 Correction of CMED KPIs tables | Revised to S1-193290 | WI code CMED Rel-17 CR0026R- Cat F |
| CR | [S1-193290](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193290.zip) | b<>com | CR 22.104v17.1.0 Correction of CMED KPIs tables | Agreed | *WI code CMED Rel-17 CR0026R- Cat F*  Revision of S1-193086.  No presentation |
| REFEC | | | | | |
| FS\_REFEC: Study on enhanced Relays for Energy eFficiency and Extensive Coverage [[SP-180785](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=934372)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Toon Norp (KPN)  Latest version: TR22.866v17.0.0  Target completion date: date: SA#85 (09/2019)  Percentage completion: 95% | | | | | |
| CR | [S1-193020](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193020.zip) | KPN | CR 22.866v17.0.0 New traffic scenario: Public Safety | Revised to S1-193272 | *WI code FS\_REFEC Rel-17 CR0001R- Cat B* |
| CR | [S1-193272](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193272.zip) | KPN | CR 22.866v17.0.0 New traffic scenario: Public Safety | Agreed | *WI code FS\_REFEC Rel-17 CR0001R- Cat B*  Revision of S1-193020. |
| CR | [S1-193104](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193104.zip) |  | CR 22.866v17.0.0 | Revised to S1-193273 | *WI code FS\_REFEC Rel-17 CR0002R- Cat D* |
| CR | [S1-193273](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193273.zip) | NOVAMINT | CR 22.866v17.0.0 Clarification of requirements | Revised to S1-193578 | *WI code FS\_REFEC Rel-17 CR0002R- Cat D*  Revision of S1-193104. |
| CR | [S1-193578](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193578.zip) | NOVAMINT | CR 22.866v17.0.0 Clarification of requirements | Agreed | *WI code FS\_REFEC Rel-17 CR0002R- Cat D*  *Revision of S1-193104.*  Revision of S1-193273. |
| CR | [S1-193110](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193110.zip) |  | CR 22.866v17.0.0 Establishement of an indirect network connection | Revised to S1-193274 | *WI code FS\_REFEC Rel-17 CR0003R- Cat B* |
| CR | [S1-193274](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193274.zip) | NOVAMINT | CR 22.866v17.0.0 Establishement of an indirect network connection | Revised to S1-193294 | *WI code FS\_REFEC Rel-17 CR0003R- Cat B*  Revision of S1-193110. |
| CR | [S1-193294](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193294.zip) | NOVAMINT | CR 22.866v17.0.0 Establishement of an indirect network connection | Revised to S1-193584 | *WI code FS\_REFEC Rel-17 CR0003R- Cat B*  *Revision of S1-193110.*  Revision of S1-193274. |
| CR | [S1-193584](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193584.zip) | NOVAMINT | CR 22.866v17.0.0 Establishement of an indirect network connection | Agreed | *WI code FS\_REFEC Rel-17 CR0003R- Cat B*  *Revision of S1-193110.*  *Revision of S1-193274.*  Revision of S1-193294. |
| CR | [S1-193113](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193113.zip) | Huawei | CR 22 866v17.0.0 Consolidation of agreed REFEC Security requirement | Revised to S1-193446 | *WI code FS\_REFEC Rel-17 CR0004R- Cat B* |
| CR | [S1-193446](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193446.zip) | Huawei | CR 22 866v17.0.0 Consolidation of agreed REFEC Security requirement | Revised to S1-193275 | *WI code FS\_REFEC Rel-17 CR0004R- Cat B*  Revision of S1-193113. |
| CR | [S1-193275](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193275.zip) | Huawei | CR 22 866v17.0.0 Consolidation of agreed REFEC Security requirement | Revised to S1-193295 | *WI code FS\_REFEC Rel-17 CR0004R- Cat B*  *Revision of S1-193113.*  Revision of S1-193446. |
| CR | [S1-193295](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193295.zip) | Huawei | CR 22 866v17.0.0 Consolidation of agreed REFEC Security requirement | Agreed | *WI code FS\_REFEC Rel-17 CR0004R- Cat B*  *Revision of S1-193113.*  *Revision of S1-193446.*  Revision of S1-193275.  No presentation |
| CR | [S1-193140](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193140.zip) |  | CR 22 866v17.0.0 | Noted | *WI code FS\_REFEC Rel-17 CR0005R- Cat B* |
| REFEC: enhanced Relays for Energy eFficiency and Extensive Coverage [[SP-190307](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionUid=SP-190307)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Toon Norp (KPN)  Target completion date: SA#86 (12/2019)  Percentage completion: 90% | | | | | |
| CR | [S1-193103](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193103.zip) | KPN | CR 22. 115v16.1.0 Update of charging requirements for indirect communication to reflect REFEC | Revised to S1-193276 | *WI code REFEC Rel-17 CR0097R- Cat C* |
| CR | [S1-193276](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193276.zip) | KPN | CR 22. 115v16.1.0 Update of charging requirements for indirect communication to reflect REFEC | Agreed | *WI code REFEC Rel-17 CR0097R- Cat C*  Revision of S1-193103. |
| CR | [S1-193107](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193107.zip) | NOVAMINT | CR 22.261v17.0.1 Clarification of requirements | Revised to S1-193277 | *WI code REFEC Rel-17 CR0421R- Cat D* |
| CR | [S1-193277](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193277.zip) | NOVAMINT | CR 22.261v17.0.1 Clarification of requirements | Revised to S1-193296 | *WI code REFEC Rel-17 CR0421R- Cat D*  Revision of S1-193107. |
| CR | [S1-193296](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193296.zip) | NOVAMINT | CR 22.261v17.0.1 Clarification of requirements | Revised to S1-193577 | *WI code REFEC Rel-17 CR0421R- Cat D*  *Revision of S1-193107.*  Revision of S1-193277. |
| CR | [S1-193577](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193577.zip) | NOVAMINT | CR 22.261v17.0.1 Clarification of requirements | Agreed | *WI code REFEC Rel-17 CR0421R- Cat D*  *Revision of S1-193107.*  *Revision of S1-193277.*  Revision of S1-193296. |
| CR | [S1-193297](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193297.zip) | NOVAMINT | CR 22.261v17.0.1 Establishement of an indirect network connection | Revised to S1-193521 | *WI code REFEC Rel-17 CR0276R- Cat C* |
| CR | [S1-193521](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193521.zip) | NOVAMINT | CR 22.261v17.0.1 Establishement of an indirect network connection | Agreed | *WI code REFEC Rel-17 CR0276R- Cat C*  Revision of S1-193297. |
| CR | [S1-193111](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193111.zip) | NOVAMINT | CR 22.261v17.0.1 Establishement of an indirect network connection | Noted | *WI code REFEC Rel-17 CR0422R- Cat D* |
| CR | [S1-193116](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193116.zip) | Huawei | CR 22.261v17.0.1 Addition of normative REFEC security requirement | Revised to S1-193447 | *WI code REFEC Rel-17 CR0424R- Cat B* |
| CR | [S1-193447](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193447.zip) | Huawei | CR 22.261v17.0.1 Addition of normative REFEC security requirement | Withdrawn | *WI code REFEC Rel-17 CR0424R- Cat B*  Revision of S1-193116. |
| CR | [S1-193141](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193141.zip) | NOVAMINT | CR 22.261v17.0.1 | Noted | *WI code REFEC Rel-17 CRXXXXR- Cat B*  *Wrong CR document.* |
| CR | [S1-193119](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193119.zip) | KPN | CR 22. 115v16.1.0 Charging requirements for small data transmission | Moved to 8.13 | *WI code REFEC Rel-17 CR0098R- Cat F* |
| EAV | | | | | |
| EAV: 5G Enhancement for UAVs [[SP-190308](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionUid=SP-190308)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Qun Wei (China Unicom)  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| CR | [S1-193015](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193015.zip) | LG Electronics | CR 22.125v17.0.0 Service restriction requirements for UAV | Revised to S1-193376 | *WI code EAV Rel-17 CR0025R- Cat B* |
| CR | [S1-193376](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193376.zip) | LG Electronics | CR 22.125v17.0.0 Service restriction requirements for UAV | Withdrawn | *WI code EAV Rel-17 CR0025R- Cat B*  Revision of S1-193015. |
| CR | [S1-193043](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193043.zip) | China Unicom, Huawei, ZTE, CATT, InterDigital, Futurewei, Verizon | CR 22.125v17.0.0 KPIs for UAV services | Revised to S1-193377 | *WI code EAV Rel-17 CR0026R- Cat B*  *Source companies?* |
| CR | [S1-193377](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193377.zip) | China Unicom, Huawei, ZTE, CATT, InterDigital, Futurewei, Verizon | CR 22.125v17.0.0 KPIs for UAV services | Revised to S1-193561 | *WI code EAV Rel-17 CR0026R- Cat B*  *Source companies?*  Revision of S1-193043. |
| CR | [S1-193561](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193561.zip) | China Unicom, Huawei, ZTE, CATT, InterDigital, Futurewei, Verizon | CR 22.125v17.0.0 KPIs for UAV services | Agreed | *WI code EAV Rel-17 CR0026R- Cat B*  *Revision of S1-193043.*  Revision of S1-193377.  No revision marks cover page. Format and small editorial (e.g. spaces). “Phase 1”  No presentation |
| Cont | [S1-193044](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193044.zip) | Intel, Verizon UK Ltd, Ericsson Inc., Nokia, Nokia Shanghai Bell, Airbus DS SLC | Discussion: Inputs from Aerial Connectivity Working Group (ACWG) | Noted |  |
| CR | [S1-193045](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193045.zip) | Intel, InterDigital | CR 22.125v17.0.0 Clarification of Control Modes in C2 communication | Revised to S1-193411 | *WI code EAV Rel-17 CR0027R- Cat B* |
| CR | [S1-193411](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193411.zip) | Intel, InterDigital | CR 22.125v17.0.0 Clarification of Control Modes in C2 communication | Revised to S1-193378 | *WI code EAV Rel-17 CR0027R- Cat B*  Revision of S1-193045. |
| CR | [S1-193378](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193378.zip) | Intel, InterDigital | CR 22.125v17.0.0 Clarification of Control Modes in C2 communication | Revised to S1-193562 | *WI code EAV Rel-17 CR0027R- Cat B*  *Revision of S1-193045.*  Revision of S1-193411.  Fix typo in “possible”. Removing hightlights. |
| CR | [S1-193562](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193562.zip) | Intel, InterDigital | CR 22.125v17.0.0 Clarification of Control Modes in C2 communication | Agreed | *WI code EAV Rel-17 CR0027R- Cat B*  *Revision of S1-193045.*  *Revision of S1-193411.*  *Fix typo in “possible”. Removing hightlights.*  Revision of S1-193378.  No presentation |
| Cont | S1-193545 | Vodafone | Minutes on off-line drafting session on eCAV | Noted |  |
| MUSIM | | | | | |
| FS\_MUSIM: Study on Support for Multi-USIM Devices [[SP-190091](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=992212)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Ellen C Liao (Intel)  Latest version: TR22.834v17.1.0  Target completion date: SA#85 (09/2019)  Percentage completion: 98% | | | | | |
| CR | [S1-193046](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193046.zip) | Intel, Qualcomm | CR 22.834v17.1.0 Correction to implement missing agreements | Revised to S1-193345 | *WI code* MUSIM *Rel-17 CR0031R- Cat B*  *WI code should be FS\_MUSIM* |
| CR | [S1-193345](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193345.zip) | Intel, Qualcomm | CR 22.834v17.1.0 Correction to implement missing agreements | Revised to S1-193519 | *WI code MUSIM Rel-17 CR0031R- Cat B*  *WI code should be FS\_MUSIM*  Revision of S1-193046. |
| CR | [S1-193519](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193519.zip) | Intel, Qualcomm | CR 22.834v17.1.0 Correction to implement missing agreements | Revised to S1-193541 | *WI code MUSIM Rel-17 CR0031R- Cat B*  *WI code should be FS\_MUSIM*  *Revision of S1-193046.*  Revision of S1-193345. |
| CR | [S1-193541](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193541.zip) | Intel, Qualcomm | CR 22.834v17.1.0 Correction to implement missing agreements | Agreed | *WI code MUSIM Rel-17 CR0031R- Cat B*  *WI code should be FS\_MUSIM*  *Revision of S1-193046.*  *Revision of S1-193345.*  Revision of S1-193519.  No changes on changes.  No presentation |
| CR | [S1-193047](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193047.zip) | Intel | CR 22.834v17.1.0 Add Mapping tables for service requirements in normative work | Revised to S1-193373 | *WI code* MUSIM *Rel-17 CR0032R- Cat F*  *WI code should be FS\_MUSIM* |
| CR | [S1-193373](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193373.zip) | Intel | CR 22.834v17.1.0 Add Mapping tables for service requirements in normative work | Agreed | *WI code MUSIM Rel-17 CR0032R- Cat F*  *WI code should be FS\_MUSIM*  Revision of S1-193047. |
| Cont | [S1-193050](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193050.zip) | Intel, Qualcomm, LGE, Samsung | Discussion on service requirements for normative work in TS22.278 | Noted |  |
| CR | [S1-193051](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193051.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.834v17.1.0 Merge and Refine Service requirements for normative work | Revised to S1-193347 | *WI code MUSIM Rel-17 CR0033R- Cat F*  *WI code should be FS\_MUSIM* |
| CR | [S1-193347](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193347.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.834v17.1.0 Merge and Refine Service requirements for normative work | Revised to S1-193374 | *WI code MUSIM Rel-17 CR0033R- Cat F*  *WI code should be FS\_MUSIM*  Revision of S1-193051. |
| CR | [S1-193374](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193374.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.834v17.1.0 Merge and Refine Service requirements for normative work | Revised to S1-193542 | *WI code MUSIM Rel-17 CR0033R- Cat F*  *WI code should be FS\_MUSIM*  *Revision of S1-193051.*  Revision of S1-193347. |
| CR | [S1-193542](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193542.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.834v17.1.0 Merge and Refine Service requirements for normative work | Agreed | *WI code MUSIM Rel-17 CR0033R- Cat F*  *WI code should be FS\_MUSIM*  *Revision of S1-193051.*  *Revision of S1-193347.*  Revision of S1-193374. |
| CR | [S1-193061](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193061.zip) | Huawei, Huawei Device,ChinaUincom, ChinaTelecom | CR 22.834v17.1.0 Corrections to MUSIM: support paging reception | Revised to S1-193348 | *WI code FS\_MUSIM Rel-17 CR0034R- Cat F* |
| CR | [S1-193348](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193348.zip) | Huawei, Huawei Device,ChinaUincom, ChinaTelecom | CR 22.834v17.1.0 Corrections to MUSIM: support paging reception | Revised to S1-193543 | *WI code FS\_MUSIM Rel-17 CR0034R- Cat F*  Revision of S1-193061. |
| CR | [S1-193543](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193543.zip) | Huawei, Huawei Device,ChinaUincom, ChinaTelecom | CR 22.834v17.1.0 Corrections to MUSIM: support paging reception | Revised to S1-193589 | *WI code FS\_MUSIM Rel-17 CR0034R- Cat F*  *Revision of S1-193061.*  Revision of S1-193348. |
| CR | [S1-193589](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193589.zip) | Huawei, Huawei Device,ChinaUincom, ChinaTelecom | CR 22.834v17.1.0 Corrections to MUSIM: support paging reception | Agreed | *WI code FS\_MUSIM Rel-17 CR0034R- Cat F*  *Revision of S1-193061.*  *Revision of S1-193348.*  Revision of S1-193543. |
| CR | [S1-193066](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193066.zip) | Huawei, Huawei Device,ChinaUincom | CR 22.834v17.1.0 Corrections to MUSIM: Handle interruption | Revised to S1-193349 | *WI code FS\_MUSIM Rel-17 CR0035R- Cat F*  *Merged into S1-193518* |
| CR | [S1-193349](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193349.zip) | Huawei, Huawei Device,ChinaUincom | CR 22.834v17.1.0 Corrections to MUSIM: Handle interruption | Withdrawn | *WI code FS\_MUSIM Rel-17 CR0035R- Cat F*  Revision of S1-193066. |
| CR | [S1-193067](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193067.zip) | Huawei, Huawei Device | CR 22.834v17.1.0 Corrections to MUSIM: cordinated leave | Revised to S1-193350 | *WI code FS\_MUSIM Rel-17 CR0036R- Cat F* |
| CR | [S1-193350](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193350.zip) | Huawei, Huawei Device | CR 22.834v17.1.0 Corrections to MUSIM: cordinated leave | Revised to S1-193544 | *WI code FS\_MUSIM Rel-17 CR0036R- Cat F*  Revision of S1-193067. |
| CR | [S1-193544](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193544.zip) | Huawei, Huawei Device | CR 22.834v17.1.0 Corrections to MUSIM: cordinated leave | Agreed | *WI code FS\_MUSIM Rel-17 CR0036R- Cat F*  *Revision of S1-193067.*  Revision of S1-193350. |
| CR | [S1-193518](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193518.zip) | Intel |  | Agreed |  |
| MUSIM: Support for Multi-USIM Devices [[SP-190309](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1021250)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Ellen C Liao (Intel)  Target completion date: SA#86 (12/2019)  Percentage completion: 50% | | | | | |
| **General** | | | | | |
| Cont | [S1-193025](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193025.zip) | Samsung, China Telecom, Charter Communications | Carry forward CPR.8.1-4 on multiple registrations to one PLMN | Revised to S1-193346 |  |
| Cont | [S1-193346](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193346.zip) | Samsung, China Telecom, Charter Communications | Carry forward CPR.8.1-4 on multiple registrations to one PLMN | Withdrawn | Revision of S1-193025. |
| Cont | [S1-193014](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193014.zip) | LG Electronics | Discussion on the granularity | Merged into S1-193347 |  |
| **22.278** | | | | | |
| CR | [S1-193048](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193048.zip) | Intel, Vodafone, Nokia, Nokia Shanghai Bell, Ericsson | CR 22.278v17.0.0 Description for supporting MUSIM UE | Revised to S1-193351 | *WI code MUSIM Rel-17 CR0271R- Cat D* |
| CR | [S1-193351](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193351.zip) | Intel, Vodafone, Nokia, Nokia Shanghai Bell, Ericsson | CR 22.278v17.0.0 Description for supporting MUSIM UE | Agreed | *WI code MUSIM Rel-17 CR0271R- Cat D*  Revision of S1-193048. |
| CR | [S1-193049](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193049.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.278v17.0.0 Add service requirements to support MUSIM UE | Revised to S1-193352 | *WI code MUSIM Rel-17 CR0272R- Cat B* |
| CR | [S1-193352](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193352.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.278v17.0.0 Add service requirements to support MUSIM UE | Revised to S1-193546 | *WI code MUSIM Rel-17 CR0272R- Cat B*  Revision of S1-193049. |
| CR | [S1-193546](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193546.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.278v17.0.0 Add service requirements to support MUSIM UE | Revised to S1-193590 | *WI code MUSIM Rel-17 CR0272R- Cat B*  *Revision of S1-193049.*  Revision of S1-193352.  Merger of 3352, 3353,3073,3076  Remove the e.g. list |
| CR | [S1-193590](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193590.zip) | Intel, Qualcomm, LGE, Samsung | CR 22.278v17.0.0 Add service requirements to support MUSIM UE | Agreed | *WI code MUSIM Rel-17 CR0272R- Cat B*  *Revision of S1-193049.*  *Revision of S1-193352.*  *Merger of 3352, 3353,3073,3076*  *Remove the e.g. list*  Revision of S1-193546.  No presentation |
| CR | [S1-193069](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193069.zip) | Huawei, Huawei Device, ChinaUnicom, ChinaTelecom | CR 22.278v17.0.0 Support paging reception for MUSIM UE | Revised to S1-193353 | *WI code MUSIM Rel-17 CR0273R- Cat B* |
| CR | [S1-193353](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193353.zip) | Huawei, Huawei Device, ChinaUnicom, ChinaTelecom | CR 22.278v17.0.0 Support paging reception for MUSIM UE | Merge into S1-193546 | *WI code MUSIM Rel-17 CR0273R- Cat B*  Revision of S1-193069. |
| CR | [S1-193073](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193073.zip) | Huawei, Huawei Device,ChinaUincom | CR 22.278v17.0.0 Corrections to MUSIM: Handle interruption | Revised to S1-193354 | *WI code MUSIM Rel-17 CR0274R- Cat B*  Merge into S1-193546 |
| CR | [S1-193354](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193354.zip) | Huawei, Huawei Device,ChinaUincom | CR 22.278v17.0.0 Corrections to MUSIM: Handle interruption | Withdrawn | *WI code MUSIM Rel-17 CR0274R- Cat B*  Revision of S1-193073. |
| CR | [S1-193076](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193076.zip) | Huawei, Huawei Device | CR 22.278v17.0.0 Support cordinated leave for MUSIM UE | Revised to S1-193355 | *WI code MUSIM Rel-17 CR0275R- Cat B*  Merge into S1-193546 |
| CR | [S1-193355](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193355.zip) | Huawei, Huawei Device | CR 22.278v17.0.0 Support cordinated leave for MUSIM UE | Withdrawn | *WI code MUSIM Rel-17 CR0275R- Cat B*  Revision of S1-193076. |
| **22.101** | | | | | |
| CR | [S1-193150](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193150.zip) | Nokia, Nokia Shanghai Bell, Intel, Vodafone, Ericsson | CR 22.101v17.0.0 Description for supporting MUSIM UE | Revised to S1-193356 | *WI code MUSIM Rel-17 CR0564R- Cat F* |
| CR | [S1-193356](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193356.zip) | Nokia, Nokia Shanghai Bell, Intel, Vodafone, Ericsson | CR 22.101v17.0.0 Description for supporting MUSIM UE | Agreed | *WI code MUSIM Rel-17 CR0564R- Cat F*  Revision of S1-193150. |
| CR | [S1-193007](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193007.zip) | , LG Electronics, Ericsson, OPPO | CR 22.101v17.0.0 | Revised to S1-193357 | *WI code MUSIM Rel-17 CR0561R- Cat F* |
| CR | [S1-193357](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193357.zip) | vivo Mobile Communication Co. LTD, LG Electronics, Ericsson, OPPO | CR 22.101v17.0.0 Emergency call handling | Withdrawn | *WI code MUSIM Rel-17 CR0561R- Cat F*  Revision of S1-193007. |
| CR | [S1-193095](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193095.zip) | Ericsson, Vivo Mobile Communications Co. LTD, Nokia, Nokia Shanghai Bell | CR 22.101v17.0.0 Clarify that emergency call-back is a regulatory requirement | Agreed | *WI code MUSIM Rel-17 CR0562R- Cat F* |
| eCAV | | | | | |
| FS\_eCAV: Study on enhancements for cyber-physical control applications in vertical domains [[SP-190092](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=992213)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Michael Bahr (Siemens)  Latest version: TR22.832v17.0.0  Target completion date: SA#85 (09/2019)  Percentage completion: 85% | | | | | |
| CR | [S1-193072](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193072.zip) | CATT,CICT | CR 22.832v17.0.0 Delete the editor’s note in 5.14.6 | Revised to S1-193405 | *WI code* FS\_eCAV *Rel-17 CR0001R- Cat F* |
| CR | [S1-193405](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193405.zip) | CATT,CICT | CR 22.832v17.0.0 Delete the editor’s note in 5.14.6 | Revised to S1-193407 | *WI code FS\_eCAV Rel-17 CR0001R- Cat F*  Revision of S1-193072. |
| CR | [S1-193407](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193407.zip) | CATT,CICT | CR 22.832v17.0.0 Delete the editor’s note in 5.14.6 | Revised to S1-193548 | *WI code FS\_eCAV Rel-17 CR0001R- Cat F*  *Revision of S1-193072.*  Revision of S1-193405. |
| CR | [S1-193548](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193548.zip) | CATT,CICT | CR 22.832v17.0.0 Delete the editor’s note in 5.14.6 | Withdrawn | *WI code FS\_eCAV Rel-17 CR0001R- Cat F*  *Revision of S1-193072.*  *Revision of S1-193405.*  Revision of S1-193407. |
| CR | [S1-193121](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193121.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.832v17.0.0 Clarification on MTBF | Revised to S1-193406 | *WI code* FS\_eCAV *Rel-17 CR0002R- Cat F* |
| CR | [S1-193406](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193406.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.832v17.0.0 Clarification on MTBF | Revised to S1-193427 | *WI code FS\_eCAV Rel-17 CR0002R- Cat F*  Revision of S1-193121. |
| CR | [S1-193427](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193427.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.832v17.0.0 Clarification on MTBF | Revised to S1-193438 | *WI code FS\_eCAV Rel-17 CR0002R- Cat F*  *Revision of S1-193121.*  Revision of S1-193406. |
| CR | [S1-193438](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193438.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.832v17.0.0 Clarification on MTBF | Revised to S1-193547 | *WI code FS\_eCAV Rel-17 CR0002R- Cat F*  *Revision of S1-193121.*  *Revision of S1-193406.*  Revision of S1-193427. |
| CR | [S1-193547](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193547.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.832v17.0.0 Clarification on MTBF | Agreed | *WI code FS\_eCAV Rel-17 CR0002R- Cat F*  *Revision of S1-193121.*  *Revision of S1-193406.*  *Revision of S1-193427.*  Revision of S1-193438. |
| CR | [S1-193126](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193126.zip) | Nokia, Nokia Shanghai Bell, Sennheiser | CR 22.832v17.0.0 Completion of Multi-connectivity for robotic automation use case | Revised to S1-193408 | *WI code* FS\_eCAV *Rel-17 CR0003R- Cat F* |
| CR | [S1-193408](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193408.zip) | Nokia, Nokia Shanghai Bell, Sennheiser | CR 22.832v17.0.0 Completion of Multi-connectivity for robotic automation use case | Noted | *WI code FS\_eCAV Rel-17 CR0003R- Cat F*  Revision of S1-193126. |
| CR | [S1-193156](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193156.zip) | Siemens | CR 22.832v17.0.0 Update Use Case Mobile Operation Panel EN | Revised to S1-193464 | *WI code* FS\_eCAV *Rel-17 CR0005R- Cat F* |
| CR | [S1-193464](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193464.zip) | Siemens | CR 22.832v17.0.0 Update Use Case Mobile Operation Panel EN | Revised to S1-193426 | *WI code FS\_eCAV Rel-17 CR0005R- Cat F*  Revision of S1-193156. |
| CR | [S1-193426](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193426.zip) | Siemens | CR 22.832v17.0.0 Update Use Case Mobile Operation Panel EN | Revised to S1-193549 | *WI code FS\_eCAV Rel-17 CR0005R- Cat F*  *Revision of S1-193156.*  Revision of S1-193464. |
| CR | [S1-193549](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193549.zip) | Siemens | CR 22.832v17.0.0 Update Use Case Mobile Operation Panel EN | Agreed | *WI code FS\_eCAV Rel-17 CR0005R- Cat F*  *Revision of S1-193156.*  *Revision of S1-193464.*  Revision of S1-193426.  No revision marks in cover page and fill affected clauses. Latency updated to “end to end latency”  No presentation |
| CR | [S1-193194](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193194.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Clock synchronization budget use case | Revised to S1-193466 | *WI code* FS\_eCAV *Rel-17 CR0013R- Cat F* |
| CR | [S1-193466](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193466.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Clock synchronization budget use case | Revised to S1-193430 | *WI code FS\_eCAV Rel-17 CR0013R- Cat F*  Revision of S1-193194. |
| CR | [S1-193430](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193430.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Clock synchronization budget use case | Revised to S1-193550 | *WI code FS\_eCAV Rel-17 CR0013R- Cat F*  *Revision of S1-193194.*  Revision of S1-193466. |
| CR | [S1-193550](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193550.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Clock synchronization budget use case | Revised to S1-193609 | *WI code FS\_eCAV Rel-17 CR0013R- Cat F*  *Revision of S1-193194.*  *Revision of S1-193466.*  Revision of S1-193430.  No changes on changes. Follow 3gpp rules for references. Delete last sentences in clause 5.x.1.4 |
| CR | [S1-193609](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193609.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Clock synchronization budget use case | Agreed | *WI code FS\_eCAV Rel-17 CR0013R- Cat F*  *Revision of S1-193194.*  *Revision of S1-193466.*  *Revision of S1-193430.*  *No changes on changes. Follow 3gpp rules for references. Delete last sentences in clause 5.x.1.4*  Revision of S1-193550.  No presentation |
| Cont | [S1-193131](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193131.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Bosch | Discussion on on network performance requirements in FS\_eCAV | Noted |  |
| CR | [S1-193133](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193133.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Bosch | CR 22.832v17.0.0 Clarification on KPIs | Revised to S1-193410 | *WI code* FS\_eCAV *Rel-17 CR0004R- Cat F* |
| CR | [S1-193410](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193410.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Bosch | CR 22.832v17.0.0 Clarification on KPIs | Revised to S1-193469 | *WI code FS\_eCAV Rel-17 CR0004R- Cat F*  Revision of S1-193133 (base).  Merger of S1-193133, S1-193169 and S1-193171. |
| CR | [S1-193439](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193439.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Bosch | CR 22.832v17.0.0 Clarification on KPIs | Revised to S1-193551 | *WI code FS\_eCAV Rel-17 CR0004R- Cat F*  *Revision of S1-193133.*  Merger of S1-193133, S1-193169 and S1-193171.  Revision of S1-193410. |
| CR | [S1-193551](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193551.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Bosch | CR 22.832v17.0.0 Clarification on KPIs | Agreed | *WI code FS\_eCAV Rel-17 CR0004R- Cat F*  *Revision of S1-193133.*  *Merger of S1-193133, S1-193169 and S1-193171.*  *Revision of S1-193410.*  Revision of S1-193439. |
| CR | [S1-193169](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193169.zip) | Ericsson | CR 22.832v17.0.0 Survival time vs message error rate | Merged into S1-193410 | *WI code* FS\_eCAV *Rel-17 CR0006R- Cat B* |
| CR | [S1-193171](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193171.zip) | Ericsson | CR 22.832v17.0.0 Corrections and naming conventions in Clause 4.3 | Merged into S1-193410 | *WI code* FS\_eCAV *Rel-17 CR0007R- Cat F* |
| CR | [S1-193179](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193179.zip) | ETRI | CR 22.832v17.0.0 Addition of definition and abbreviation for non-public network | Revised to S1-193414 | *WI code* FS\_eCAV *Rel-17 CR0009R- Cat F* |
| CR | [S1-193414](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193414.zip) | ETRI | CR 22.832v17.0.0 Addition of definition and abbreviation for non-public network | Agreed | *WI code FS\_eCAV Rel-17 CR0009R- Cat F*  Revision of S1-193179. |
| CR | [S1-193181](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193181.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for industrial ethernet integration | Revised to S1-193415 | *WI code* FS\_eCAV *Rel-17 CR0010R- Cat F* |
| CR | [S1-193415](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193415.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for industrial ethernet integration | Agreed | *WI code FS\_eCAV Rel-17 CR0010R- Cat F*  Revision of S1-193181.  No presentation |
| CR | [S1-193182](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193182.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV – merged potential service requirements – Non-public Networks | Revised to S1-193416 | *WI code* FS\_eCAV *Rel-17 CR0011R- Cat F* |
| CR | [S1-193416](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193416.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV – merged potential service requirements – Non-public Networks | Noted | *WI code FS\_eCAV Rel-17 CR0011R- Cat F*  Revision of S1-193182. |
| CR | [S1-193183](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193183.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for network operation and maintenance | Revised to S1-193417 | *WI code* FS\_eCAV *Rel-17 CR0012R- Cat F* |
| CR | [S1-193417](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193417.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for network operation and maintenance | Agreed | *WI code FS\_eCAV Rel-17 CR0012R- Cat F*  Revision of S1-193183. |
| CR | [S1-193184](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193184.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Update Clause Merged Potential Service Requirements - Network Performance | Revised to S1-193418 | *WI code* FS\_eCAV *Rel-17 CR0013R- Cat F* |
| CR | [S1-193418](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193418.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV - Update Clause Merged Potential Service Requirements - Network Performance | Agreed | *WI code FS\_eCAV Rel-17 CR0013R- Cat F*  Revision of S1-193184. |
| CR | [S1-193178](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193178.zip) | ETRI | CR 22.832v17.0.0 Modification of merged potential service requirements on positioning | Merged into S1-193413 | *WI code* FS\_eCAV *Rel-17 CR0008R- Cat F* |
| CR | [S1-193185](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193185.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for positioning | Revised to S1-193413 | *WI code* FS\_eCAV *Rel-17 CR0014R- Cat F* |
| CR | [S1-193413](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193413.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for positioning | Agreed | *WI code FS\_eCAV Rel-17 CR0014R- Cat F*  Revision of S1-193185. |
| CR | [S1-193186](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193186.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for device-to-device/ProSe communication | Revised to S1-193419 | *WI code* FS\_eCAV *Rel-17 CR0015R- Cat F* |
| CR | [S1-193419](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193419.zip) | Siemens | CR 22.832v17.0.0 FS\_eCAV update to requirements consolidation for device-to-device/ProSe communication | Agreed | *WI code FS\_eCAV Rel-17 CR0015R- Cat F*  Revision of S1-193186.  No presentation |
| CR | [S1-193192](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193192.zip) | Siemens | CR 22.832v17.0.0 Mapping or requirements from use case to consolidated | Revised to S1-193465 | *WI code* FS\_eCAV *Rel-17 CR0019R- Cat F* |
| CR | [S1-193465](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193465.zip) | Siemens | CR 22.832v17.0.0 Mapping or requirements from use case to consolidated | Revised to S1-193423 | *WI code FS\_eCAV Rel-17 CR0019R- Cat F*  Revision of S1-193192. |
| CR | [S1-193423](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193423.zip) | Siemens | CR 22.832v17.0.0 Mapping or requirements from use case to consolidated | Revised to S1-193552 | *WI code FS\_eCAV Rel-17 CR0019R- Cat F*  *Revision of S1-193192.*  Revision of S1-193465. |
| CR | [S1-193552](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193552.zip) | Siemens | CR 22.832v17.0.0 Mapping or requirements from use case to consolidated | Agreed | *WI code FS\_eCAV Rel-17 CR0019R- Cat F*  *Revision of S1-193192.*  *Revision of S1-193465.*  Revision of S1-193423.  No revision marks in cover page.  No presentation |
| CR | [S1-193191](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193191.zip) | Siemens | CR 22.832v17.0.0 Introduction clause for TR 22.832 | Revised to S1-193422 | *WI code* FS\_eCAV *Rel-17 CR0018R- Cat F* |
| CR | [S1-193422](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193422.zip) | Siemens | CR 22.832v17.0.0 Introduction clause for TR 22.832 | Revised to S1-193553 | *WI code FS\_eCAV Rel-17 CR0018R- Cat F*  Revision of S1-193191. |
| CR | [S1-193553](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193553.zip) | Siemens | CR 22.832v17.0.0 Introduction clause for TR 22.832 | Agreed | *WI code FS\_eCAV Rel-17 CR0018R- Cat F*  *Revision of S1-193191.*  Revision of S1-193422.  No changes on changes.  No presentation |
| CR | [S1-193193](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193193.zip) | ETRI | CR 22.832v17.0.0 Correction of clause 4.1 and clause 5.1 | Revised to S1-193424 | *WI code* FS\_eCAV *Rel-17 CR0020R- Cat F* |
| CR | [S1-193424](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193424.zip) | ETRI | CR 22.832v17.0.0 Correction of clause 4.1 and clause 5.1 | Revised to S1-193554 | *WI code FS\_eCAV Rel-17 CR0020R- Cat F*  Revision of S1-193193. |
| CR | [S1-193554](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193554.zip) | ETRI | CR 22.832v17.0.0 Correction of clause 4.1 and clause 5.1 | Revised to S1-193585 | *WI code FS\_eCAV Rel-17 CR0020R- Cat F*  *Revision of S1-193193.*  Revision of S1-193424.  No underline in the cover page. |
| CR | [S1-193585](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193585.zip) | ETRI | CR 22.832v17.0.0 Correction of clause 4.1 and clause 5.1 | Agreed | *WI code FS\_eCAV Rel-17 CR0020R- Cat F*  *Revision of S1-193193.*  *Revision of S1-193424.*  *No underline text in the cover page.*  Revision of S1-193554.  No presentation |
| CR | [S1-193187](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193187.zip) | Siemens | CR 22.832v17.0.0 Resolution of remaining Editor’s Notes | Revised to S1-193420 | *WI code* FS\_eCAV *Rel-17 CR0016R- Cat F* |
| CR | [S1-193420](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193420.zip) | Siemens | CR 22.832v17.0.0 Resolution of remaining Editor’s Notes | Revised to S1-193440 | *WI code FS\_eCAV Rel-17 CR0016R- Cat F*  Revision of S1-193187. |
| CR | [S1-193440](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193440.zip) | Siemens | CR 22.832v17.0.0 Resolution of remaining Editor’s Notes | Revised to S1-193602 | *WI code FS\_eCAV Rel-17 CR0016R- Cat F*  *Revision of S1-193187.*  Revision of S1-193420. |
| CR | [S1-193602](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193602.zip) | Siemens | CR 22.832v17.0.0 Resolution of remaining Editor’s Notes | Agreed | *WI code FS\_eCAV Rel-17 CR0016R- Cat F*  *Revision of S1-193187.*  *Revision of S1-193420.*  Revision of S1-193440. |
| CR | [S1-193188](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193188.zip) | Siemens | CR 22.832v17.0.0 Editorial and minor corrections to TR 22.832 | Revised to S1-193421 | *WI code* FS\_eCAV *Rel-17 CR0017R- Cat F* |
| CR | [S1-193421](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193421.zip) | Siemens | CR 22.832v17.0.0 Editorial and minor corrections to TR 22.832 | Agreed | *WI code FS\_eCAV Rel-17 CR0017R- Cat F*  Revision of S1-193188.  No presentation |
| CR | [S1-193190](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193190.zip) | Siemens | CR22.104v17.1.0 TS 22104 – Annex A for cooperative carrying | Moved to 8.8.2 | *WI code* eCAV *Rel-17 CR0038R- Cat F* |
| eCAV: WID on enhancements for CAV (eCAV) [[SP-190310](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1021251)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Michael Bahr (Siemens)  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| **22.104** | | | | | |
| CR | [S1-193128](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193128.zip) | Nokia, Nokia Shanghai Bell, Sennheiser | CR 22.104v17.1.0 Multi-connectivity requirement | Revised to S1-193409 | *WI code* eCAV *Rel-17 CR0031R- Cat C* |
| CR | [S1-193409](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193409.zip) | Nokia, Nokia Shanghai Bell, Sennheiser | CR 22.104v17.1.0 Multi-connectivity requirement | Withdrawn | *WI code eCAV Rel-17 CR0031R- Cat C*  Revision of S1-193128. |
| CR | [S1-193157](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193157.zip) | Siemens | CR 22.104v17.1.0 Network performance requirements for mobile operation panel | Revised to S1-193412 | *WI code* eCAV *Rel-17 CR0032R- Cat C* |
| CR | [S1-193412](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193412.zip) | Siemens | CR 22.104v17.1.0 Network performance requirements for mobile operation panel | Revised to S1-193555 | *WI code eCAV Rel-17 CR0032R- Cat C*  Revision of S1-193157. |
| CR | [S1-193555](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193555.zip) | Siemens | CR 22.104v17.1.0 Network performance requirements for mobile operation panel | Agreed | *WI code eCAV Rel-17 CR0032R- Cat C*  *Revision of S1-193157.*  Revision of S1-193412.  No changes on changes.  No presentation |
| Cont | [S1-193165](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193165.zip) | Ericsson | Clock synchronicity budget for the 5G system | Noted |  |
| CR | [S1-193166](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193166.zip) | Ericsson | CR 22.104v16.3.0 Clarification of clock synchronicity requirements | Revised to S1-193435 | *WI code* eCAV *Rel-16 CR0033R- Cat F* |
| CR | [S1-193435](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193435.zip) | Ericsson | CR 22.104v16.3.0 Clarification of clock synchronicity requirements | Revised to S1-193556 | *WI code eCAV Rel-16 CR0033R- Cat F*  Revision of S1-193166. |
| CR | [S1-193556](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193556.zip) | Ericsson | CR 22.104v16.3.0 Clarification of clock synchronicity requirements | Revised to S1-193587 | *WI code eCAV Rel-16 CR0033R- Cat F*  *Revision of S1-193166.*  Revision of S1-193435. |
| CR | [S1-193587](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193587.zip) | Ericsson | CR 22.104v16.3.0 Clarification of clock synchronicity requirements | Revised to S1-193610 | *WI code eCAV Rel-16 CR0033R- Cat F*  *Revision of S1-193166.*  *Revision of S1-193435.*  Revision of S1-193556. |
| CR | [S1-193610](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193610.zip) | Ericsson | CR 22.104v16.3.0 Clarification of clock synchronicity requirements | Revised to S1-193619 | *WI code eCAV Rel-16 CR0033R- Cat F*  *Revision of S1-193166.*  *Revision of S1-193435.*  *Revision of S1-193556.*  Revision of S1-193587.  WI code to use: cyberCAV |
| CR | [S1-193619](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193619.zip) | Ericsson | CR 22.104v16.3.0 Clarification of clock synchronicity requirements | Agreed | *WI code eCAV Rel-16 CR0033R- Cat F*  *Revision of S1-193166.*  *Revision of S1-193435.*  *Revision of S1-193556.*  *Revision of S1-193587.*  *WI code to use: cyberCAV*  Revision of S1-193610.  No presentation |
| CR | [S1-193167](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193167.zip) | Ericsson | CR 22.104v17.1.0 Clarification of clock synchronicity requirements | Revised to S1-193429 | *WI code* eCAV *Rel-17 CR0034R- Cat A* |
| CR | [S1-193429](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193429.zip) | Ericsson | CR 22.104v17.1.0 Clarification of clock synchronicity requirements | Revised to S1-193557 | *WI code eCAV Rel-17 CR0034R- Cat A*  Revision of S1-193167. |
| CR | [S1-193557](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193557.zip) | Ericsson | CR 22.104v17.1.0 Clarification of clock synchronicity requirements | Revised to S1-193611 | *WI code eCAV Rel-17 CR0034R- Cat A*  *Revision of S1-193167.*  Revision of S1-193429. |
| CR | [S1-193611](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193611.zip) | Ericsson | CR 22.104v17.1.0 Clarification of clock synchronicity requirements | Revised to S1-193620 | *WI code eCAV Rel-17 CR0034R- Cat A*  *Revision of S1-193167.*  *Revision of S1-193429.*  Revision of S1-193557.  *WI code to use: cyberCAV* |
| CR | [S1-193620](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193620.zip) | Ericsson | CR 22.104v17.1.0 Clarification of clock synchronicity requirements | Agreed | *WI code eCAV Rel-17 CR0034R- Cat A*  *Revision of S1-193167.*  *Revision of S1-193429.*  *Revision of S1-193557.*  *WI code to use: cyberCAV*  Revision of S1-193611.  No presentation |
| CR | [S1-193195](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193195.zip) | Siemens | CR 22.104v17.1.0 eCAV - Clock synchronization budget requirements | Merged into both 3425 and 3429. | *WI code* eCAV *Rel-17 CR0039R- Cat D* |
| CR | [S1-193122](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193122.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.104v17.1.0 Clarification on communication service reliability | Revised to S1-193431 | *WI code* eCAV *Rel-17 CR0029R- Cat F* |
| CR | [S1-193431](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193431.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.104v17.1.0 Clarification on communication service reliability | Agreed | *WI code eCAV Rel-17 CR0029R- Cat F*  Revision of S1-193122. |
| CR | [S1-193123](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193123.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.104v17.1.0 Clarification on communication service reliability | Revised to S1-193432 | *WI code* eCAV *Rel-17 CR0030R- Cat A* |
| CR | [S1-193432](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193432.zip) | Nokia, Nokia Shanghai Bell, Vodafone, Siemens, Bosch | CR 22.104v17.1.0 Clarification on communication service reliability | Agreed | *WI code eCAV Rel-17 CR0030R- Cat A*  Revision of S1-193123. |
| CR | [S1-193168](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193168.zip) | Ericsson | CR 22.104v17.1.0 Derivation of communication service availability and reliability from network performance metrics | Revised to S1-193433 | *WI code* eCAV *Rel-17 CR0035R- Cat B* |
| CR | [S1-193433](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193433.zip) | Ericsson | CR 22.104v17.1.0 Derivation of communication service availability and reliability from network performance metrics | Agreed | *WI code eCAV Rel-17 CR0035R- Cat B*  Revision of S1-193168. |
| CR | [S1-193170](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193170.zip) | Ericsson | CR 22.104v17.1.0 Additional characteristic parameter: Message error rate | Revised to S1-193434 | *WI code* eCAV *Rel-17 CR0036R- Cat B* |
| CR | [S1-193434](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193434.zip) | Ericsson | CR 22.104v17.1.0 Additional characteristic parameter: Message error rate | Revised to S1-193559 | *WI code eCAV Rel-17 CR0036R- Cat B*  Revision of S1-193170. |
| CR | [S1-193559](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193559.zip) | Ericsson | CR 22.104v17.1.0 Additional characteristic parameter: Message error rate | Revised to S1-193612 | *WI code eCAV Rel-17 CR0036R- Cat B*  Revision of S1-193170.  Revision of S1-193434. |
| CR | [S1-193612](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193612.zip) | Ericsson | CR 22.104v17.1.0 Additional characteristic parameter: Message error rate | Withdrawn | *WI code eCAV Rel-17 CR0036R- Cat B*  *Revision of S1-193170.*  *Revision of S1-193434.*  Revision of S1-193559. |
| CR | [S1-193588](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193588.zip) | Ericsson | CR 22.104v17.1.0 Additional characteristic parameter: Message error rate | Withdrawn | *WI code eCAV Rel-17 CR0036R- Cat B*  *Revision of S1-193170.*  *Revision of S1-193434.*  Revision of S1-193559. |
| CR | [S1-193190](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193190.zip) | Siemens | CR 22.104v17.1.0 TS 22104 – Annex A for cooperative carrying | Revised to S1-193450 | *WI code* eCAV *Rel-17 CR0038R- Cat F*  *Moved from 8.8.1* |
| CR | [S1-193450](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193450.zip) | Siemens | CR 22.104v17.1.0 TS 22104 – Annex A for cooperative carrying | Revised to S1-193558 | *WI code eCAV Rel-17 CR0038R- Cat F*  *Moved from 8.8.1*  Revision of S1-193190. |
| CR | [S1-193558](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193558.zip) | Siemens | CR 22.104v17.1.0 TS 22104 – Annex A for cooperative carrying | Agreed | *WI code eCAV Rel-17 CR0038R- Cat F*  *Moved from 8.8.1*  *Revision of S1-193190.*  Revision of S1-193450. |
| Cont | [S1-193114](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193114.zip) | Vodafone | eCAV: transmission direction and movement characteristics | Noted |  |
| CR | [S1-193117](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193117.zip) | Vodafone | CR 22.104v17.1.0 Addition of transmission directions and movement characteristics | Agreed | *WI code* eCAV *Rel-17 CR0028R- Cat F* |
| CR | [S1-193189](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193189.zip) | Siemens | CR 22.104v17.1.0 Editorial and minor corrections to TR 22.104 | Revised to S1-193437 | *WI code* eCAV *Rel-17 CR0037R- Cat D* |
| CR | [S1-193437](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193437.zip) | Siemens | CR 22.104v17.1.0 Editorial and minor corrections to TR 22.104 | Agreed | *WI code eCAV Rel-17 CR0037R- Cat D*  Revision of S1-193189.  No presentation |
| **Others** | | | | | |
| CR | [S1-193154](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193154.zip) | KPN | CR 22.261v17.0.1 Operator provided end-to-end security for factory networks | Revised to S1-193436 | *WI code* eCAV *Rel-17 CR0430R- Cat B* |
| CR | [S1-193436](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193436.zip) | KPN | CR 22.261v17.0.1 Operator provided end-to-end security for factory networks | Revised to S1-193560 | *WI code eCAV Rel-17 CR0430R- Cat B*  Revision of S1-193154. |
| CR | [S1-193560](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193560.zip) | KPN | CR 22.261v17.0.1 Operator provided end-to-end security for factory networks | Revised to S1-193586 | *WI code eCAV Rel-17 CR0430R- Cat B*  *Revision of S1-193154.*  Revision of S1-193436.  Editorial “an MNO” |
| CR | [S1-193586](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193586.zip) | KPN | CR 22.261v17.0.1 Operator provided end-to-end security for factory networks | Agreed | *WI code eCAV Rel-17 CR0430R- Cat B*  *Revision of S1-193154.*  *Revision of S1-193436.*  *Editorial “an MNO”*  Revision of S1-193560.  No presentation |
| MONASTERYEND | | | | | |
| FS\_FRMCS3: Study on Future Railway Mobile Communication System 3 [[SP-190321](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1021262)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Guillaume Gach (UIC)  Latest version: TR22.889v17.1.0  Target completion date: SA#85 (09/2019)  Percentage completion: 80% | | | | | |
| Cont | [S1-193052](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193052.zip) | KT | Support uplink connectivity under network congestion and emergency | Revised to S1-193358 | Needs to be transformed to a CR |
| Cont | [S1-193358](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193358.zip) | KT | Support uplink connectivity under network congestion and emergency | Withdrawn | *Needs to be transformed to a CR*  Revision of S1-193052. |
| Cont | [S1-193096](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193096.zip) | UIC | Interworking between FRMCS System and Public Networks | Revised to S1-193478 |  |
| Cont | [S1-193478](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193478.zip) | UIC | Interworking between FRMCS System and Public Networks | Noted | Revision of S1-193096. |
| CR | [S1-193097](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193097.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Clarification on interworking between FRMCS System and Public Networks | Revised to S1-193359 | *WI code* FS\_FRMCS3 *Rel-17 CR0161R- Cat F* |
| CR | [S1-193359](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193359.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Clarification on interworking between FRMCS System and Public Networks | Agreed | *WI code FS\_FRMCS3 Rel-17 CR0161R- Cat F*  Revision of S1-193097. |
| CR | [S1-193100](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193100.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Update gap analysis for requirements in subclause 9 Critical support applications related use cases | Revised to S1-193360 | *WI code* FS\_FRMCS3 *Rel-17 CR0162R- Cat F* |
| CR | [S1-193360](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193360.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Update gap analysis for requirements in subclause 9 Critical support applications related use cases | Agreed | *WI code FS\_FRMCS3 Rel-17 CR0162R- Cat F*  Revision of S1-193100. |
| CR | [S1-193101](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193101.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Change Automatic Train Control (ATC) to Automatic Train Protection (ATP) for correct interpretation | Revised to S1-193361 | *WI code* FS\_FRMCS3 *Rel-17 CR0163R- Cat D* |
| CR | [S1-193361](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193361.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Change Automatic Train Control (ATC) to Automatic Train Protection (ATP) for correct interpretation | Agreed | *WI code FS\_FRMCS3 Rel-17 CR0163R- Cat D*  Revision of S1-193101. |
| CR | [S1-193102](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193102.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Data transmisison in real-time covered by MCData IP Connectivity | Agreed | *WI code* FS\_FRMCS3 *Rel-17 CR0164R- Cat F* |
| CR | [S1-193105](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193105.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 Update gap analysis for requirements in subclause 6 Critical communication applications related use cases | Agreed | *WI code* FS\_FRMCS3 *Rel-17 CR0165R- Cat F* |
| CR | [S1-193106](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193106.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 First results of gap analysis on FRMCS Off-Network communication | Revised to S1-193362 | *WI code* FS\_FRMCS3 *Rel-17 CR0166R- Cat F* |
| CR | [S1-193362](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193362.zip) | UIC, Kontron, Ericsson, Nokia, Nokia Shanghai Bell | CR 22.889v17.1.0 First results of gap analysis on FRMCS Off-Network communication | Agreed | *WI code FS\_FRMCS3 Rel-17 CR0166R- Cat F*  Revision of S1-193106. |
| CR | [S1-193176](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193176.zip) | Hansung University, ETRI, KT | CR 22.889v17.1.0 Gap analysis for Private call priority during internetworking with LMR | Revised to S1-193363 | *WI code* FS\_FRMCS3 *Rel-17 CR0167R- Cat F* |
| CR | [S1-193363](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193363.zip) | Hansung University, ETRI, KT | CR 22.889v17.1.0 Gap analysis for Private call priority during internetworking with LMR | Revised to S1-193387 | *WI code FS\_FRMCS3 Rel-17 CR0167R- Cat F*  Revision of S1-193176. |
| CR | [S1-193387](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193387.zip) | Hansung University, ETRI, KT | CR 22.889v17.1.0 Gap analysis for Private call priority during internetworking with LMR | Agreed | *WI code FS\_FRMCS3 Rel-17 CR0167R- Cat F*  *Revision of S1-193176.*  Revision of S1-193363. |
| CR | [S1-193177](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193177.zip) | Hansung University, ETRI, KT | CR 22.889v17.1.0 Gap analysis for 9.14 Virtual Coupling | Revised to S1-193375 | *WI code* FS\_FRMCS3 *Rel-17 CR0168R- Cat F* |
| CR | [S1-193375](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193375.zip) | Hansung University, ETRI, KT | CR 22.889v17.1.0 Gap analysis for 9.14 Virtual Coupling | Revised to S1-193388 | *WI code FS\_FRMCS3 Rel-17 CR0168R- Cat F*  Revision of S1-193177. |
| CR | [S1-193388](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193388.zip) | Hansung University, ETRI, KT | CR 22.889v17.1.0 Gap analysis for 9.14 Virtual Coupling | Agreed | *WI code FS\_FRMCS3 Rel-17 CR0168R- Cat F*  *Revision of S1-193177.*  Revision of S1-193375. |
| MONASTERYEND: Complete Gap Analysis for Railways Mobile Communication System [[SP-190312](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1021253)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Guillaume Gach (UIC)  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| **22.289** | | | | | |
| CR | [S1-193094](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193094.zip) | UIC | CR 22.289v16.1.0 MCData QoS required for rail communication | Revised to S1-193365 | *WI code* MONASTERYEND *Rel-17 CR0004R- Cat B* |
| CR | [S1-193365](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193365.zip) | UIC | CR 22.289v16.1.0 MCData QoS required for rail communication | Withdrawn | *WI code MONASTERYEND Rel-17 CR0004R- Cat B*  Revision of S1-193094. |
| CR | [S1-193099](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193099.zip) | UIC | CR 22.289v16.1.0 Maximum communication range required for rail data communications | Noted | *WI code* MONASTERYEND *Rel-17 CR0005R- Cat B* |
| CR | [S1-193173](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193173.zip) | Hansung University, ETRI, KT | CR 22.289v16.1.0 Call setup time for interworking with LMR | Revised to S1-193366 | *WI code* MONASTERYEND *Rel-17 CR0006R- Cat B* |
| CR | [S1-193366](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193366.zip) | Hansung University, ETRI, KT | CR 22.289v16.1.0 Call setup time for interworking with LMR | Revised to S1-193381 | *WI code MONASTERYEND Rel-17 CR0006R- Cat B*  Revision of S1-193173. |
| CR | [S1-193381](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193381.zip) | Hansung University, ETRI, KT | CR 22.289v16.1.0 Call setup time for interworking with LMR | Agreed | *WI code MONASTERYEND Rel-17 CR0006R- Cat B*  *Revision of S1-193173.*  Revision of S1-193366.  No presentation |
| CR | [S1-193175](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193175.zip) | Hansung University, ETRI, KT | CR 22.289v16.1.0 Off network communication for interworking with LMR | Revised to S1-193367 | *WI code* MONASTERYEND *Rel-17 CR0007R- Cat B* |
| CR | [S1-193367](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193367.zip) | Hansung University, ETRI, KT | CR 22.289v16.1.0 Off network communication for interworking with LMR | Revised to S1-193382 | *WI code MONASTERYEND Rel-17 CR0007R- Cat B*  Revision of S1-193175. |
| CR | [S1-193382](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193382.zip) | Hansung University, ETRI, KT | CR 22.289v16.1.0 Off network communication for interworking with LMR | Agreed | *WI code MONASTERYEND Rel-17 CR0007R- Cat B*  *Revision of S1-193175.*  Revision of S1-193367.  No presentation |
| CR | [S1-193477](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193477.zip) | UIC | CR 22.289v16.1.0 Clarification on interworking between FRMCS system and Public Networks | Revised to S1-193368 |  |
| CR | [S1-193368](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193368.zip) | UIC | CR 22.289v16.1.0 Clarification on interworking between FRMCS system and Public Networks | Revised to S1-193383 | Revision of S1-193477. |
| CR | [S1-193383](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193383.zip) | UIC | CR 22.289v16.1.0 Clarification on interworking between FRMCS system and Public Networks | Agreed | *Revision of S1-193477.*  Revision of S1-193368. |
| **Others** | | | | | |
| CR | [S1-193145](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193145.zip) | UIC | CR 22.280v17.1.0 Clarification on interworking between FRMCS System and Public Networks | Withdrawn | *WI code* MONASTERYEND *Rel-17 CR0135R- Cat C* |
| CR | [S1-193147](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193147.zip) | UIC | CR 22.179v16.5.0 Clarification on interworking between FRMCS System and Public Networks | Noted | *WI code* MONASTERYEND *Rel-17 CR0074R- Cat C* |
| MINT | | | | | |
| MINT: Support for Minimization of service Interruption [[SP-190938](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1048386)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: SungDuck Chun (LG Electronics)  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| CR | [S1-193016](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193016.zip) | LG Electronics | CR 22.831v17.0.0 On Access control for MINT | Revised to S1-193280 | *WI code* MINT *Rel-17 CR0001R- Cat D* |
| CR | [S1-193280](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193280.zip) | LG Electronics | CR 22.831v17.0.0 On Access control for MINT | Agreed | *WI code MINT Rel-17 CR0001R- Cat D*  Revision of S1-193016.  No presentation |
| CR | [S1-193017](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193017.zip) | LG Electronics, Samsung, LG Uplus | CR 22.011v16.4.0 On PLMN selection for MINT | Revised to S1-193281 | *WI code* MINT *Rel-17 CR0307R- Cat B* |
| CR | [S1-193281](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193281.zip) | LG Electronics, Samsung, LG Uplus | CR 22.011v16.4.0 On PLMN selection for MINT | Agreed | *WI code MINT Rel-17 CR0307R- Cat B*  Revision of S1-193017.  No presentation |
| CR | [S1-193018](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193018.zip) | LG Electronics, Samsung, LG Uplus | CR 22.261v17.0.1 On Access control for MINT | Revised to S1-193282 | *WI code* MINT *Rel-17 CR0378R- Cat B* |
| CR | [S1-193282](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193282.zip) | LG Electronics, Samsung, LG Uplus | CR 22.261v17.0.1 On Access control for MINT | Revised to S1-193567 | *WI code MINT Rel-17 CR0378R- Cat B*  Revision of S1-193018.  No presentation |
| CR | [S1-193567](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193567.zip) | LG Electronics, Samsung, LG Uplus | CR 22.261v17.0.1 On Access control for MINT | Revised to S1-193603 | *WI code MINT Rel-17 CR0378R- Cat B*  *Revision of S1-193018.*  *No presentation*  Revision of S1-193282.  Change “section” into “clause”. |
| CR | [S1-193603](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193603.zip) | LG Electronics, Samsung, LG Uplus | CR 22.261v17.0.1 On Access control for MINT | Agreed | *WI code MINT Rel-17 CR0378R- Cat B*  *Revision of S1-193018.*  *No presentation*  *Revision of S1-193282.*  *Change “section” into “clause”.*  Revision of S1-193567.  No presentation |
| ATRAC | | | | | |
| **FS\_5G\_ATRAC** | | | | | |
| CR | [S1-193143](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193143.zip) |  | CR 22.836v17.0.0 | Revised to S1-193278 | *WI code*  *Rel-17 CR0001R- Cat B*  *Moved from 8.11.1* |
| CR | [S1-193278](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193278.zip) | NOVAMINT | CR 22.836v17.0.0 Requirement for container use case | Agreed | *WI code FS\_5G\_ATRAC Rel-17 CR0001R- Cat B*  *Moved from 8.11.1*  Revision of S1-193143. |
| CR | [S1-193144](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193144.zip) |  | CR 22.836v17.0.0 | Noted | *WI code*  *Rel-17 CR0002R- Cat B*  *Moved from 8.11.1* |
| ATRAC: Asset Tracking for 5G [[SP- 190816](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1047334)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Thierry Berisot (Novamint)  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| CR | [S1-193148](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193148.zip) | NOVAMINT | CR 22.261v17.0.1 | Noted | *WI code ATRAC* *Rel-17 CR0429R- Cat C* |
| CR | [S1-193143](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193143.zip) |  | CR 22.836v17.0.0 | Moved to 8.11 | *WI code*  *Rel-17 CR0001R- Cat B* |
| CR | [S1-193144](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193144.zip) |  | CR 22.836v17.0.0 | Moved to 8.11 | *WI code*  *Rel-17 CR0002R- Cat B* |
| 5MBS\_eMC | | | | | |
| 5MBS\_eMC: Broadcast / multicast requirements supporting Mission Critical Services in 5G [[SP-190942](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1048390)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Jens Toobe, (BDBOS)  Target completion date: SA#86 (12/2019)  Percentage completion: 80% | | | | | |
| CR | [S1-193024](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193024.zip) | BDBOS, FirstNet, The Police of the Netherlands, MINISTERE DE L'INTERIEUR, Home Office, KPN | CR 22.261v17.0.1 Broadcast / multicast requirements supporting Mission Critical Services in 5G | Revised to S1-193270 | *WI code* 5MBS\_eMC *Rel-17 CR0384R- Cat B* |
| CR | [S1-193270](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193270.zip) | BDBOS, FirstNet, The Police of the Netherlands, MINISTERE DE L'INTERIEUR, Home Office, KPN | CR 22.261v17.0.1 Broadcast / multicast requirements supporting Mission Critical Services in 5G | Revised to S1-193575 | *WI code 5MBS\_eMC Rel-17 CR0384R- Cat B*  Revision of S1-193024.  Editorial modifications, unbreakable space between numbers and s,ms. |
| CR | [S1-193575](file:///C:\Users\josel\Desktop\docs\S1-193575.zip) | BDBOS, FirstNet, The Police of the Netherlands, MINISTERE DE L'INTERIEUR, Home Office, KPN | CR 22.261v17.0.1 Broadcast / multicast requirements supporting Mission Critical Services in 5G | Agreed | *WI code 5MBS\_eMC Rel-17 CR0384R- Cat B*  *Revision of S1-193024.*  *Editorial modifications, unbreakable space between numbers and s,ms.*  Revision of S1-193270.  No presentation |
| Other contributions (e.g. completed studies/work items) | | | | | |
| CR | [S1-193009](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193009.zip) | Motorola Solutions, FirstNet, Home Office | CR 22.179v16.5.0 Private call setup KPIs | Revised to S1-193500 | *WI code* MCImp-MCPTTR *Rel-17 CR0384R- Cat F* |
| CR | [S1-193500](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193500.zip) | Motorola Solutions, FirstNet, Home Office | CR 22.179v16.5.0 Private call setup KPIs | Agreed | *WI code MCImp-MCPTTR Rel-17 CR0384R- Cat F*  Revision of S1-193009. |
| CR | [S1-193053](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193053.zip) | OPPO | CR 22.261v17.0.1 Support of voice and emergency services in standalone non-public networks | Noted | *WI code* 5G\_LAN *Rel-17 CR0404R- Cat F*  *Invalid WI code for Rel17* |
| CR | [S1-193032](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193032.zip) | LG Electronics | CR 22.173v17.0.0 Editorial clean-up | Agreed | *WI code* eCNAM\_An *Rel-17 CR0129R- Cat F* |
| CR | [S1-193033](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193033.zip) | LG Electronics, AT&T, Ericsson | CR 22.173v17.0.0 Clarification on eCNAM-related information retrieval | Revised to S1-193501 | *WI code* eCNAM\_An *Rel-17 CR0130R- Cat C* |
| CR | [S1-193501](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193501.zip) | LG Electronics, AT&T, Ericsson | CR 22.173v17.0.0 Clarification on eCNAM-related information retrieval | Revised to S1-193580 | *WI code eCNAM\_An Rel-17 CR0130R- Cat C*  Revision of S1-193033. |
| CR | [S1-193580](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193580.zip) | LG Electronics, AT&T, Ericsson | CR 22.173v17.0.0 Clarification on eCNAM-related information retrieval | Agreed | *WI code eCNAM\_An Rel-17 CR0130R- Cat C*  *Revision of S1-193033.*  Revision of S1-193501. |
| CR | [S1-193092](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193092.zip) | Sony | CR 22.261v17.0.1 VR requirement for 5G | Revised to S1-193502 | *WI code* Smarter\_Ph2 *Rel-17 CR0419R- Cat C*  *Invalid WI code for Rel17* |
| CR | [S1-193502](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193502.zip) | Sony | CR 22.261v17.0.1 VR requirement for 5G | Revised to S1-193540 | *WI code Smarter\_Ph2 Rel-17 CR0419R- Cat C*  *Invalid WI code for Rel17*  Revision of S1-193092. |
| CR | [S1-193540](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193540.zip) | Sony | CR 22.261v17.0.1 VR requirement for 5G | Agreed | *WI code Smarter\_Ph2 Rel-17 CR0419R- Cat C*  *Invalid WI code for Rel17*  *Revision of S1-193092.*  Revision of S1-193502.  No presentation |
| Cont | [S1-193196](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193196.zip) | BUPT, Tencent | Reduce the positioning service latency in Service Level 3 and Service Level 5 to 4 ms | Revised to S1-193503 |  |
| Cont | [S1-193503](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193503.zip) | BUPT, Tencent | Reduce the positioning service latency in Service Level 3 and Service Level 5 to 4 ms | Noted | Revision of S1-193196. |
| CR | [S1-193030](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193030.zip) | Tencent, OPPO | CR 22.842v17.1.0 Update of KPI table to be aligned with TS 22.261 | Moved to 8.1 | *WI code* FS\_NCIS *Rel-17 CRXXXXR- Cat F*  *Need CRnumber* |
| CR | [S1-193057](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193057.zip) | b<>com | CR 22.826v17.0.0 Addition of missing “5.1 Introduction” section | Moved to 8.4.1 | *WI code* FS\_CMED *Rel-17 CR0001R- Cat D* |
| CR | [S1-193059](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193059.zip) | b<>com | CR 22.826v17.0.0 Addition of missing 5.5.1 section | Moved to 8.4.1 | *WI code* FS\_CMED *Rel-17 CR0002R- Cat D* |
| CR | [S1-193064](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193064.zip) | b<>com | CR 22.826v17.0.0 Removal of brackets and correction on required bitrates | Moved to 8.4.1 | *WI code* FS\_CMED *Rel-17 CR0003R- Cat F* |
| CR | [S1-193078](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193078.zip) | b<>com | CR 22.826v17.0.0 Correction on #UE density for use cases using services delivered by PLMNs | Moved to 8.4.1 | *WI code* FS\_CMED *Rel-17 CR0004R- Cat F* |
| CR | [S1-193082](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193082.zip) | b<>com, Philips | CR 22.826v17.0.0 Correction of network dependability figures in 22.826 KPI tables | Moved to 8.4.1 | *WI code* FS\_CMED *Rel-17 CR0005R- Cat F* |
| CR | [S1-193120](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193120.zip) | Sennheiser | CR22.827v17.0.0 Alignment of AVPROD TR with TS 22.263 VIAPA concerning Audio Performance Requirements | Moved to 8.2 | *WI code* FS\_AVPROD *Rel-17 CR0001R- Cat C* |
| CR | [S1-193172](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193172.zip) | Perpsecta Labs, CISA ECD, T-Mobile UA, Verizon, AT&T, Sprint | CR 22.854v17.0.0 Separate two requirements which were erroneously merged | Moved to 8.3 | *WI code* MPS2 *Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2* |
| CR | [S1-193174](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193174.zip) | Perpsecta Labs, CISA ECD, T-Mobile US, Verizon, AT&T, Verizon | CR 22.854v17.0.0 Changes to clause 8 (Security considerations) | Moved to 8.3 | *WI code* MPS2 *Rel-17 CR0002R- Cat F*  *WI code should be FS\_MPS2* |
| Rel18 contributions | | | | | |
| MMTELin5G | | | | | |
| FS\_MMTELin5G: Study on evolution of IMS multimedia telephony service [[SP-190836](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1047354)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Yan Di (China Mobile)  Latest version: TR22.873 v.0.1.0  Target completion date: SA#90 (12/2020)  Percentage completion: 0% | | | | | |
| Cont | [S1-193019](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193019.zip) | China Mobile | TR 22.873 skeleton | Revised to S1-193301 |  |
| Cont | [S1-193301](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193301.zip) | China Mobile | TR 22.873 skeleton | Agreed | Revision of S1-193019.  No presentation |
| Cont | [S1-193022](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193022.zip) | China Mobile | Pseudo-CR on Scope of FS\_MMTELin5G | Noted | *Agenda item 9.1.1* |
| Cont | [S1-193055](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193055.zip) | Sony | Enhance MMTEL with VR in 5G | Noted |  |
| Cont | [S1-193108](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193108.zip) | China Telecom | Use case of AR Telemarketing | Noted |  |
| Cont | [S1-193136](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193136.zip) | China Telecom | Use case of Sharing VR component during the IMS Call | Noted |  |
| Cont | [S1-193149](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193149.zip) | China Telecom | Use case of conference call with AR holography | Revised to S1-193303 |  |
| Cont | [S1-193303](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193303.zip) | China Telecom | Use case of conference call with AR holography | Revised to S1-193579 | Revision of S1-193149. |
| Cont | [S1-193579](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193579.zip) | China Telecom | Use case of conference call with AR holography | Agreed | *Revision of S1-193149.*  Revision of S1-193303. |
| Cont | [S1-193109](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193109.zip) | China Telecom | Use case of AR Telemarketing | Withdrawn |  |
| Cont | [S1-193135](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193135.zip) | China Telecom | Use case of conference call with AR holography | Withdrawn |  |
| FS\_MMTELin5G output | | | | | |
| TR | [S1-193221](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193221.zip) | Rapporteur (China Mobile) | TR22.873 v.0.2.0 to include agreements at this meeting | Agreed |  |
| SACI\_MCS | | | | | |
| FS\_ SACI\_MCS: Study on sharing administrative configuration between interconnected MCX Service systems [[SP-190837](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1047355)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Jens Toobe, (BDBOS)  Latest version: TR22.881v.0.1.0  Target completion date: SA#88 (06/2020)  Percentage completion:0% | | | | | |
| Cont | [S1-193027](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193027.zip) | BDBOS | TR 22.881 skeleton | Agreed |  |
| Cont | [S1-193026](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193026.zip) | BDBOS | Scope section for FS\_SACI\_MCS | Revised to S1-193302 |  |
| Cont | [S1-193302](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193302.zip) | BDBOS | Scope section for FS\_SACI\_MCS | Agreed | Revision of S1-193026.  No presentation |
| FS\_ SACI\_MCS output | | | | | |
| TR | [S1-193222](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193222.zip) | Rapporteur (BDBOS) | TR 22.881v.0.2.0 to include agreements at this meeting | Agreed |  |
| FS\_RAILSS | | | | | |
| FS\_RAILSS: Study on Supporting of Railway Smart Station Services [[SP-190838](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1047356)] | | | | | |
| **Work status prior to this meeting:**  Rapporteur: Andrew Min-gyu Han (Hansung University)  Latest version: TR22.890v.0.1.0  Target completion date: SA#89 (09/2020)  Percentage completion:0% | | | | | |
| Cont | [S1-193155](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193155.zip) | Hansung University | The skeleton of TR 22.890 | Revised to S1-193380 |  |
| Cont | [S1-193380](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193380.zip) | Hansung University | The skeleton of TR 22.890 | Revised to S1-193386 | Revision of S1-193155. |
| Cont | [S1-193386](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193386.zip) | Hansung University | The skeleton of TR 22.890 | Revised to S1-193390 | *Revision of S1-193155.*  Revision of S1-193380. |
| Cont | [S1-193390](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193390.zip) | Hansung University | The skeleton of TR 22.890 | Agreed | *Revision of S1-193155.*  *Revision of S1-193380.*  Revision of S1-193386.  No presentation |
| Cont | [S1-193180](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193180.zip) | Hansung University, ETRI, KT | The scope section of RAILSS | Noted |  |
| FS\_RAILSS output | | | | | |
| TR | [S1-193223](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193223.zip) | Rapporteur (Hansung University) | TR 22.890v.0.2.0 to include agreements at this meeting | Agreed |  |
| Other technical contributions | | | | | |
| CR | [S1-193070](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193070.zip) | Qualcomm, Vodafone, CMCC | CR 22.261v17.0.1 Clarify requirements for bulk IoT authentication | Moved to 7.1 | *WI code* SMARTER\_Ph2*Rel-17 CR0412R- Cat F* |
| Work planning contributions | | | | | |
| Work Plan | | | | | |
| WP | [S1-193006](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193006.zip) | MCC | Workplan | Moved to 3 |  |
| WID | [S1-193008](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193008.zip) | THALES | Study on Services with Extra-territorial 5G systems | Withdrawn |  |
| WID | [S1-193031](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193031.zip) | THALES, TNO | Study on Extra-territorial 5G Systems | Moved to 5 |  |
| Session information outputs | | | | | |
| AGE | [S1-193224](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193224.zip) | Session Chair | AVPROD+CMED+5MBS\_eMC drafting agenda | Noted |  |
| REP | [S1-193225](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193225.zip) | Session Chair | AVPROD+CMED+5MBS\_eMC drafting report | Noted |  |
| AGE | [S1-193226](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193226.zip) | Session Chair | REFEC+ATRAC drafting agenda | Noted |  |
| REP | [S1-193227](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193227.zip) | Session Chair | REFEC+ATRAC drafting report | Noted |  |
| AGE | [S1-193228](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193228.zip) | Session Chair | MMTELin5G+ FS\_SACI\_MCS drafting agenda | Noted |  |
| REP | [S1-193229](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193229.zip) | Session Chair | MMTELin5G+ FS\_SACI\_MCS drafting report | Noted |  |
| AGE | [S1-193230](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193230.zip) | Session Chair | NCIS+MINT drafting agenda | Noted |  |
| REP | [S1-193231](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193231.zip) | Session Chair | NCIS+MINT drafting report | Noted |  |
| AGE | [S1-193232](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193232.zip) | Session Chair | Railway (FRMCS3 + MONASTERYEND + FS\_RAILSS) + MSP2 drafting agenda | Noted |  |
| REP | [S1-193233](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193233.zip) | Session Chair | Railway (FRMCS3 + MONASTERYEND + FS\_RAILSS) + MSP2 drafting report | Noted |  |
| AGE | [S1-193234](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193234.zip) | Session Chair | EAV drafting agenda | Noted |  |
| REP | [S1-193235](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193235.zip) | Session Chair | EAV drafting report | Noted |  |
| AGE | [S1-193236](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193236.zip) | Session Chair | MUSIM drafting agenda | Noted |  |
| REP | [S1-193237](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193237.zip) | Session Chair | MUSIM drafting report | Noted |  |
| AGE | [S1-193238](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193238.zip) | Session Chair | eCAV drafting agenda | Noted |  |
| REP | [S1-193239](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193239.zip) | Session Chair | eCAV drafting report | Noted |  |
| Work Item/Study Item status update | | | | | |
| REP | [S1-193240](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193240.zip) | b<>com | FS\_CMED – Status report | Noted | 100% |
| REP | [S1-193241](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193241.zip) | Intel | FS\_MUSIM – Status report | Noted | 100% |
| REP | [S1-193242](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193242.zip) | Siemens | FS\_eCAV – Status report | Revised to S1-193621 | 95% |
| REP | [S1-193621](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193621.zip) | Siemens | FS\_eCAV – Status report | Noted | *95%*  Revision of S1-193242. |
| REP | [S1-193243](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193243.zip) | China Mobile | FS\_MMTELin5G – Status report | Noted | 10% |
| REP | [S1-193244](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193244.zip) | BDBOS | FS\_ SACI\_MCS \_– Status report | Noted | 5% |
| REP | [S1-193245](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193245.zip) | Hansung University | FS\_RAILSS - Status report | Noted | 5% |
| REP | [S1-193246](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193246.zip) | UIC | FS\_FRMCS3 – Status report | Noted | 100% |
| REP | [S1-193247](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193247.zip) | OPPO | NCIS – Status report | Noted | 100% |
| REP | [S1-193248](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193248.zip) | EBU | AVPROD – Status report | Revised to S1-193576 |  |
| REP | [S1-193576](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193576.zip) | EBU | AVPROD – Status report | Revised to S1-193622 | 95%  Revision of S1-193248. |
| REP | [S1-193622](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193622.zip) | EBU | AVPROD – Status report | Noted | *95%*  *Revision of S1-193248.*  Revision of S1-193576. |
| REP | [S1-193249](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193249.zip) | Vencore Labs | MPS2 – Status report | Noted | 100% |
| REP | [S1-193250](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193250.zip) | b<>com | CMED – Status report | Noted | 100% |
| REP | [S1-193251](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193251.zip) | KPN | REFEC – Status report | Noted | 100% |
| REP | [S1-193252](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193252.zip) | China Unicom | EAV – Status report | Noted | 100% |
| REP | [S1-193253](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193253.zip) | Intel | MUSIM – Status report | Noted | 100% |
| REP | [S1-193254](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193254.zip) | Siemens | eCAV – Status report | Noted | 95% |
| REP | [S1-193255](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193255.zip) | UIC | MONASTERYEND – Status report | Revised to S1-193623 |  |
| REP | [S1-193623](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193623.zip) | UIC | MONASTERYEND – Status report | Noted | 100%  Revision of S1-193255. |
| REP | [S1-193256](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193256.zip) | LGE | MINT – Status report | Noted | 100% |
| REP | [S1-193257](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193257.zip) | Novamint | ATRAC – Status report | Noted | 100% |
| REP | [S1-193258](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193258.zip) | BDBOS | 5MBS\_eMC – Status report | Noted | 100% |
| REP | [S1-193601](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193601.zip) | Charter Communications | IESNPM – Status report | Noted | 100% |
| REP | [S1-193607](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193607.zip) | OPPO | FS\_AMMT– Status report | Noted | 0% |
| REP | [S1-193616](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193616.zip) | Thales | FS\_5GET – Status report | Noted | 0% |
| SA1 process improvements/updates | | | | | |
| Cont | [S1-193010](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193010.zip) | Samsung | SA1 ToR Update Proposal | Revised to S1-193448 |  |
| Cont | [S1-193448](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193448.zip) | Samsung | SA1 ToR Update Proposal | Revised to S1-193591 | Revision of S1-193010. |
| Cont | [S1-193591](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193591.zip) | Samsung | SA1 ToR Update Proposal | Endorsed | *Revision of S1-193010.*  Revision of S1-193448. |
| Cont | [S1-193028](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193028.zip) | SA1 leadership | Proposed SA 1 email approval process | Revised to S1-193262 |  |
| Cont | [S1-193262](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193262.zip) | SA1 leadership | Proposed SA 1 email approval process | Revised to S1-193451 | Revision of S1-193028. |
| Cont | [S1-193451](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193451.zip) | SA1 leadership | Proposed SA 1 email approval process | Endorsed | *Revision of S1-193028.*  Revision of S1-193262. |
| Cont | [S1-193034](file:///D:\3GPP_SA1\TSGS1_88_Reno\Docs\S1-193034.zip) | LG Electronics | SA1 Process Improvement: Proposal for Tracking SA1’s LS-OUT Waiting for Feedback | Noted |  |
| Cont | [S1-193035](file:///D:\3GPP_SA1\TSGS1_88_Reno\docs\S1-193035.zip) | LG Electronics | Proposed Template for “List of SA1’s LS-OUT with feedback requested” | Noted |  |
| Next meetings | | | | | |
| Calendar | | | | | |
| **2020 meetings:**  SA1#89 10-14 Feb 2020 Guangzhou, China  SA1#90 18-22 May 2020 TBD, North-America  SA1#91 24-28 August 2020 (TBC) Wroclaw, Poland  SA1#92 16-20 Nov 2020 TBD, US  **2021 meetings:**  SA1#93 1- 5 Mar 2021 TBD, Japan  SA1#94 17-21 May 2021 TBD, Europe  SA1#95 23-27 August 2021 (TBC) TBD, China  SA1#95 TBD Nov 2021 (TBC) TBD, US | | | | | |
| Any other business | | | | | |
| Close | | | | | |
| Close by 16:00 on Friday 22 November 2019 | | | | | |