3GPP TSG-SA WG1 Meeting #85 S1-190002

Tallinn, Estonia, 18 - 22 February 2019

Title: 1st Final Agenda and schedule for SA1#85

Ag. Item: 1.1

Source: SA1 Chairman

Contact: Toon Norp

Submission Guidelines

* **Submission deadlines:**
  + **Tdoc number** and **CR number** requests: **Friday,** 8 February 2019, 23:00 UTC
  + Document **submission**: **Friday**, 8 February 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#85)
* Please use the document templates available at <http://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_85_Tallin/templates/>
* For CRs:
  + **TEI17 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-16 CR with Rel-15 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 Sirius

Room B: Breakout Arcturus

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|  |  | **Monday** | **Tuesday** | **Wednesday** |  | **Thursday** | **Friday** |
| **Q0** | **08:00**  **09:00** |  |  | **Informal Drafting REFEC** | **08:00**  **09:00** | **Informal Drafting REFEC** | **08:30 Plenary:**  Revisions  FS\_EAV  FS\_ATRAC  FS\_CMED  FS\_MPS2 |
| **Q1** | **09:00**  **10:30** | (start at 09:00)  Plenary:  1. Opening  2. Reports  3. LSs | **Drafting 1 (Rm A):**  Session FS\_NCIS  =================  **Drafting 2 (Rm B):**  Session FS\_CMED | **Drafting 1 (Rm A):**  Session FS\_AVPROD  =================  **Drafting 2 (Rm B):**  FS\_EAV | **09:00**  **10:30** | **Plenary:**  Revisions  2 Way Forward  3 LSs  4 WIDs | **Plenary:**  Revisions |
|  | **Coffee** |  |  |  | **Coffee** |  |  |
| **Q2** | **11:00**  **12:30** | **Plenary:**  3. LSs | **Drafting 1 (Rm A):**  Session FS\_AVPROD  =================  **Drafting 2 (Rm B):**  Session FS\_MPS2 | **Drafting 1 (Rm A):**  Session FS\_NCIS  =================  **Drafting 2 (Rm B):**  Session FS\_MPS2 | **11:00**  **12:30** | **Plenary:**  Revisions  5 Quality  6 Rel-16 | **Plenary:**  Revisions |
|  | **Lunch** |  |  |  | **Lunch** |  |  |
| **Q3** | **14:00**  **15:30** | **Plenary:**  4. New WIDs | **Drafting 1 (Rm A):**  Session FS\_REFEC  =================  **Drafting 2 (Rm B):**  Session FS\_EAV | **Drafting 1 (Rm A):**  Session FS\_REFEC  =================  **Drafting 2 (Rm B):**  Session FS\_CMED | **14:00**  **15:30** | **Plenary:**  Revisions  Rel-16  9 Other  FS\_NCIS  FS\_REFEC | **Plenary:**  10.1 Workplan, 10.2 Status  10.3 Improv  Meeting closes at 16:00 latest |
|  | **Coffee** |  |  |  | **Coffee** |  |  |
| **Q4** | **16:00**  **18:00** | **Plenary:**  5. Quality improvement  6. Rel-16 and earlier | **Plenary:**  6. Rel-16 and earlier  9. Other  7.1. MARCOM  7.2. V2XIMP  6. + 9. Railway | **Drafting 1 (Rm A)**  Session FS\_5G\_ATRAC  =================  **Drafting 2 (Rm B):**  FS\_EAV | **16:00**  **18:00** | **Plenary:**  Revisions  FS\_REFEC FS\_AVPROD |  |
|  |  |  |  |  |  |  |  |
| **Q5** | **18:10**  **19:30** | **Plenary:** | **MMS** | **Drafting 1 (Rm A):**  Informal Drafting AVPROD  =================  **Drafting 2 (Rm B):**  FS\_NCIS | **18:10**  **19:30** | **Plenary:**  Revisions  FS\_EAV |  |

**NOTE:**

**Slots scheduled based on contributions submitted**

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

**Drafting sessions:**

Session FS\_NCIS *– chaired by Ki-Dong Lee*

Session FS\_AVPROD *– chaired by Toon Norp*

Session FS\_REFEC*– chaired by Greg Schumacher*

Session FS\_EAV *– chaired by Ki-Dong Lee*

Session FS\_CMED *– chaired by Toon Norp*

Session FS\_MPS2 *– chaired by Greg Schumacher*

Session FS\_5G\_ATRAC *– chaired by Jose Almodovar*

**LEGEND**

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

**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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| 1. **Opening of the meeting** | | | | | | | |
| Opening of the meeting at 09:00 on Monday 18 February 2019 | | | | | | | |
| * 1. **Agenda and scheduling** | | | | | | | |
| AGE | | [S1-190000](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190000.zip) | SA1 Chairman | Draft agenda for SA1#85 | Revised to S1-190001 |  | |
| AGE | | [S1-190001](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190001.zip) | SA1 Chairman | Draft agenda and schedule for SA1#85 | Revised to S1-190002 | Revision of S1-190000. | |
| AGE | | [S1-190002](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190002.zip) | SA1 Chairman | Final agenda and schedule for SA1#85 | Agreed | *Revision of S1-190000.*  Revision of S1-190001.  No presentation | |
| IPR, antitrust and competition laws | | | | | | | |
|  | The attention of the delegates to this meeting is drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.   Members are hereby invited:  - to investigate whether their companies owns IPRs which are, or are likely to become essential in respect of the work of 3GPP.  - to notify the Director-General or the Chairman of their Organizational Partners, of all potential IPRs that their companies may own, by means of the appropriate IPR Statement and the Licensing declaration forms (e.g. see the ETSI IPR forms [**http://webapp.etsi.org/Ipr/**](http://webapp.etsi.org/Ipr/)). | | | | | |  |
|  | The attention of the delegates to this meeting is also drawn to the fact that 3GPP activities are subject to antitrust and competition laws and that compliance with said laws is therefore required of any participant of this meeting including the Chairman and Vice Chairmen. In case of questions, it is recommended that delegates contact their respective legal counsel.  The present meeting will be conducted with strict impartiality and in the interests of 3GPP.  Furthermore, delegates are reminded that timely submission of work items in advance of the meeting is important to allow for full and fair consideration of such matters. | | | | | |  |
| * 1. **Previous SA1 meeting report** | | | | | | | |
| The report of the last meeting will be approved at the start of the meeting. | | | | | | | |
| REP | | [S1-190004](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190004.zip) | ETSI | Draft minutes of SA1#84 | Revised to S1-190005 |  | |
| REP | | [S1-190005](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190005.zip) | ETSI | Draft minutes of SA1#84 | Agreed | Revision of S1-190004.  No presentation | |
| * 1. **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 | | | | | | | |
| WP | | [S1-190006](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190006.zip) | ETSI | Extract of the 3GPP Work Plan for SA1#85 | Noted |  | |
| TR | | [S1-190007](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190007.zip) | ETSI | Rel-15 Summary Description TR 21.915 | Noted |  | |
| * 1. **Information for rapporteurs** | | | | | | | |
| "Beginner's guide" for writing a new TS/TR is available at <http://www.3gpp.org/specifications-groups/delegates-corner/writing-a-new-spec> (feedback on content is welcome!)  For detailed drafting guidelines, please see [TR 21.801](http://www.3gpp.org/DynaReport/21801.htm)  Rapporteurs are expected to produce a work item/study item status report for the end of the meeting under agenda item 9.2. The template is available [here](http://www.3gpp.org/ftp/tsg_sa/WG1_Serv/TSGS1_85_Tallin/templates/Template_WI_Status_Update.zip).  For draft TR/TS, the rapporteur is expected to update the draft TR/TS with all contributions agreed at the meeting before the meeting is closed. | | | | | | | |
| * 1. **Working agreements** | | | | | | | |
| None | | | | | | | |
| 1. **Reports and action items** | | | | | | | |
| REP | | [S1-190003](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190003.zip) | SA1 chairman | SA1-related topics at SA#82 | Noted |  | |
| Cont | | [S1-190093](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190093.zip) | KPN (Rapporteur REFEC), Novamint (Rapporteur ATRAC), EBU&Senheisser (Rapporteur AVPROD), B-Com (Rapporteur CMED), OPPO (Rapporteur NCIS)? | A way forward for Rel17 | Revised to S1-190221 | Moved from 10.1 | |
| Cont | | [S1-190221](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190221.zip) | KPN (Rapporteur REFEC), Novamint (Rapporteur ATRAC), EBU&Senheisser (Rapporteur AVPROD), B-Com (Rapporteur CMED), OPPO (Rapporteur NCIS)? | A way forward for Rel17 | Noted | *Moved from 10.1*  Revision of S1-190093. | |
| REP | | [S1-190216](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190216.zip) | Samsung | MRP Verticals Workshop – Summary and Impressions | Noted |  | |
| Cont | | [S1-190219](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190219.zip) | Samsung | MRP Verticals Workshop - Industrial Automation | Noted |  | |
| Cont | | [S1-190220](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190220.zip) | Samsung | MRP Verticals Workshop – Verticals in 3GPP | Noted |  | |
| 1. **Liaison Statements (including related contributions)** | | | | | | | |
| **IOT** | | | | | | | |
| TO | | [S1-190170](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190170.zip) | S1-183622/S3-183717 (DoCoMo) | LS on Authentication of group of IoT devices | Noted | Postponed from SA1#84 | |
| OUT | | [S1-190098](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190098.zip) | Huawei | Reply LS on authentication of group of IoT devices | Merged into S1-190229 | Response to S3-183717 | |
| OUT | | [S1-190100](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190100.zip) | Nokia | Reply LS on authentication of group of IoT devices | Merged into S1-190229 | Response to S3-183717 | |
| OUT | | [S1-190229](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190229.zip) | Nokia | Reply LS on authentication of group of IoT devices | Revised to S1-190501 | *Response to S3-183717*  Merge of S1-190100 and S1-190098. | |
| OUT | | [S1-190501](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190501.zip) | Nokia | Reply LS on authentication of group of IoT devices | Agreed | *Response to S3-183717*  *Merge of S1-190100 and S1-190098.*  Revision of S1-190229.  No presentation | |
| CR | | [S1-190230](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190230.zip) | Nokia, Huawei | CR22.261v16.6.0: Clarification of bulk authentication | Revised to S1-190500 | WI code SMARTER\_Ph2 Rel-16 CR0355R- Cat F  LATE | |
| CR | | [S1-190500](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190500.zip) | Nokia, Huawei | CR22.261v16.6.0: Clarification of bulk authentication | Revised to S1-190509 | *WI code SMARTER\_Ph2 Rel-16 CR0355R- Cat F*  *LATE*  Revision of S1-190230.  No presentation | |
| CR | | [S1-190509](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190509.zip) | Nokia, Huawei | CR22.261v16.6.0: Clarification of bulk authentication | Agreed | *WI code SMARTER\_Ph2 Rel-16 CR0355R- Cat F*  *LATE*  *Revision of S1-190230.*  *No presentation*  Revision of S1-190500.  No presentation | |
| TO | | [S1-190171](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190171.zip) | ATIS | LS on IOT Categorization | Noted |  | |
| Cont | | [S1-190231](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190231.zip) | LG | Accompanying presentation to the ATIS LS | Noted |  | |
| OUT | | [S1-190146](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190146.zip) | LG Electronics | Reply LS on IOT Categorization | Revised to S1-190232 | Response to ATIS | |
| OUT | | [S1-190232](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190232.zip) | LG Electronics | Reply LS on IOT Categorization | Revised to S1-190502 | *Response to ATIS*  Revision of S1-190146. | |
| OUT | | [S1-190502](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190502.zip) | LG Electronics | Reply LS on IOT Categorization | Agreed | *Response to ATIS*  *Revision of S1-190146.*  Revision of S1-190232.  No presentation | |
| **RRC Reject** | | | | | | | |
| TO | | [S1-190172](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190172.zip) | R2-1816068 (Vencore Labs) | LS to SA1 on RRCReject T302 Timer Exemption for MPS and MCS | Noted | Postponed from SA1#84 | |
| Cont | | [S1-190109](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190109.zip) | Perspecta Labs, OEC | Discussion Paper on LS (R2-1816068) on RRCReject T302 Timer Exemption for MPS and MCS | Noted |  | |
| OUT | | [S1-190112](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190112.zip) | Perspecta Labs | Reply LS on RRCReject T302 Timer Exemption for MPS and MCS | Agreed | Response to R2-1816068 | |
| **TSN** | | | | | | | |
| TO | | [S1-190173](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190173.zip) | R2-1816043 (Nokia) | LS on TSN requirements evaluation | Noted | Noted at SA1#84 | |
| CC | | [S1-190162](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190162.zip) | R1-1901470 | Reply LS on TSN requirements evaluation | Noted | Response to R2-1816043 | |
| CC | | [S1-190164](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190164.zip) | R3-187252 | Reply LS on TSN requirements evaluation | Noted | Response to R2-1816043 | |
| OUT | | [S1-190101](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190101.zip) | Nokia | Reply LS on TSN requirements evaluation | Revised to S1-190233 | Response to R2-1816043 | |
| OUT | | [S1-190233](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190233.zip) | Nokia | Reply LS on TSN requirements evaluation | Agreed | *Response to R2-1816043*  Revision of S1-190101. | |
| **PWS** | | | | | | | |
| TO | | [S1-190166](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190166.zip) | S3-190406 | Reply LS on securing warning messages in ePWS | Noted |  | |
| OUT | | [S1-190132](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190132.zip) | KPN | Reply LS on securing warning messages in ePWS | Revised to S1-190234 | Response to S3-190406 | |
| OUT | | [S1-190234](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190234.zip) | KPN | Reply LS on securing warning messages in ePWS | Revised to S1-190503 | *Response to S3-190406*  Revision of S1-190132. | |
| OUT | | [S1-190503](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190503.zip) | KPN | Reply LS on securing warning messages in ePWS | Agreed | *Response to S3-190406*  *Revision of S1-190132.*  Revision of S1-190234.  No presentation | |
| **Descreet Listening** | | | | | | | |
| TO | | [S1-190168](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190168.zip) | S6-181866 | LS on discreet listening | Noted |  | |
| CR | | [S1-190210](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190210.zip) | TD Tech | CR22.179v13.3.0: Clarification for discreet listening | Revised to S1-190240 | WI code MCPTT Rel-13 CR0070R- Cat F  LATE | |
| CR | | [S1-190240](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190240.zip) | TD Tech | CR22.179v13.3.0: Clarification for discreet listening | Withdrawn | *WI code MCPTT Rel-13 CR0070R- Cat F*  *LATE*  Revision of S1-190210. | |
| CR | | [S1-190211](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190211.zip) | TD Tech | CR22.280v14.3.1: Clarification for discreet listening | Revised to S1-190241 | WI code MCImp-MCCoRe Rel-14 CR0105R- Cat F  LATE | |
| CR | | [S1-190241](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190241.zip) | TD Tech | CR22.280v14.3.1: Clarification for discreet listening | Withdrawn | *WI code MCImp-MCCoRe Rel-14 CR0105R- Cat F*  *LATE*  Revision of S1-190211. | |
| CR | | [S1-190212](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190212.zip) | TD Tech | CR22.280v15.3.0: Clarification for discreet listening | Revised to S1-190242 | WI code MCImp-MCCoRe Rel-15 CR0106R- Cat A  LATE | |
| CR | | [S1-190242](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190242.zip) | TD Tech | CR22.280v15.3.0: Clarification for discreet listening | Withdrawn | *WI code MCImp-MCCoRe Rel-15 CR0106R- Cat A*  *LATE*  Revision of S1-190212. | |
| CR | | [S1-190213](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190213.zip) | TD Tech | CR22.280v16.4.0: Clarification for discreet listening | Revised to S1-190243 | WI code MCImp-MCCoRe Rel-16 CR0107R- Cat A  LATE | |
| CR | | [S1-190243](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190243.zip) | TD Tech | CR22.280v16.4.0: Clarification for discreet listening | Revised to S1-190434 | *WI code MCImp-MCCoRe Rel-16 CR0107R- Cat A*  *LATE*  Revision of S1-190213. | |
| CR | | [S1-190435](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190435.zip) | TD Tech | CR22.280v16.4.0: Clarification for discreet listening | Revised to S1-190504 | *WI code MCImp-MCCoRe Rel-16 CR0107R- Cat A*  *LATE*  *Revision of S1-190213.*  Revision of S1-190243. | |
| CR | | [S1-190504](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190504.zip) | TD Tech | CR22.280v16.4.0: Clarification for discreet listening | Agreed | *WI code MCImp-MCCoRe Rel-16 CR0107R- Cat A*  *LATE*  *Revision of S1-190213.*  *Revision of S1-190243.*  Revision of S1-190435.  No presentation | |
| OUT | | [S1-190225](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190225.zip) | Huawei | Reply LS on discreet listening | Revised to S1-190239 | Reponse to S6-190168 | |
| OUT | | [S1-190239](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190239.zip) | Huawei | Reply LS on discreet listening | Revised to S1-190435 | *Reponse to S6-190168*  Revision of S1-190225. | |
| OUT | | [S1-190434](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190434.zip) | Huawei | Reply LS on discreet listening | Revised to S1-190505 | *Reponse to S6-190168*  *Revision of S1-190225.*  Revision of S1-190239. | |
| OUT | | [S1-190505](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190505.zip) | Huawei | Reply LS on discreet listening | Agreed | *Reponse to S6-190168*  *Revision of S1-190225.*  *Revision of S1-190239.*  Revision of S1-190434.  No presentation | |
| **OTHER** | | | | | | | |
| TO | | [S1-190433](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190433.zip) | GSMA | LS on UE injected Tone | Noted |  | |
| OUT | | [S1-190437](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190437.zip) | Deutsche Telekom | Reply LS on UE injected Tone | Revised to S1-190506 |  | |
| OUT | | [S1-190506](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190506.zip) | Deutsche Telekom | Reply LS on UE injected Tone | Agreed | Revision of S1-190437.  No presentation | |
| TO | | [S1-190167](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190167.zip) | S4-190261 | Reply LS on Extended Reality over 5G | Noted |  | |
| TO | | [S1-190169](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190169.zip) | ITU SG13-LS80 | LS/o/r on consent of Recommendation Y.3103 | Noted |  | |
| CC | | [S1-190159](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190159.zip) | 5GAA WG2 A-180328 | LSReply to 3GPP on Time-Criticality of In-Advance QoS Notification | Noted |  | |
| CC | | [S1-190160](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190160.zip) | C1-188926 | Reply LS on the applicability of service area restriction and NSSAIs to EPLMNs | Noted |  | |
| CC | | [S1-190161](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190161.zip) | C1-188954 | LS on barred access due to rejection from NG-RAN | Noted |  | |
| CC | | [S1-190163](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190163.zip) | R2-1819099 | Reply LS on Location Service exposure to NG-RAN | Noted |  | |
| CC | | [S1-190165](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190165.zip) | GSMA RIFS Doc 73\_02 | GTP Recovery Counter & GSN node behaviour | Noted |  | |
| 1. **New Study and Work Items (including related contributions)** | | | | | | | |
| WID | | [S1-190043](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190043.zip) | China Telecom, OPPO, Tencent | Proposed WID on Network Controlled Interactive Service (NCIS) Requirements | Revised to S1-190244 |  | |
| WID | | [S1-190244](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190244.zip) | China Telecom, OPPO, Tencent | Proposed WID on Network Controlled Interactive Service (NCIS) Requirements | Noted | Revision of S1-190043. | |
| WID | | [S1-190068](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190068.zip) | OMESH Networks | New SID on Smart Infrastructure over 5G Systems | Revised to S1-190149 |  | |
| WID | | [S1-190149](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190149.zip) | OMESH Networks | New SID on Smart Infrastructure over 5G Systems | Revised to S1-190245 | Revision of S1-190068. | |
| WID | | [S1-190245](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190245.zip) | OMESH Networks | New SID on Smart Infrastructure over 5G Systems | Withdrawn | *Revision of S1-190068.*  Revision of S1-190149. | |
| Cont | | [S1-190436](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190436.zip) | OMESH Networks | Smart Infrastructure over 5G Systems | Noted | *Revision of S1-190068.*  Revision of S1-190149. | |
| WID | | [S1-190085](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190085.zip) | KT Corp, LG Electronics, LG Uplus, SK Telecom, SAMSUNG, ETRI, ITL, KRRI | Study on Support for Enhancement of Roaming | Revised to S1-190246 |  | |
| WID | | [S1-190246](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190246.zip) | KT Corp, LG Electronics, LG Uplus, SK Telecom, SAMSUNG, ETRI, ITL, KRRI | Study on Support for Enhancement of Roaming | Revised to S1-190438 | Revision of S1-190085. | |
| WID | | [S1-190438](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190438.zip) | KT Corp, LG Electronics, LG Uplus, SK Telecom, SAMSUNG, ETRI, ITL, KRRI | Study on Support for Enhancement of Roaming | Revised to S1-190491 | *Revision of S1-190085.*  Revision of S1-190246. | |
| WID | | [S1-190491](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190491.zip) | KT Corp, LG Electronics, LG Uplus, SK Telecom, SAMSUNG, ETRI, ITL, KRRI | Study on Support for Enhancement of Roaming | Revised to S1-190492 | *Revision of S1-190085.*  *Revision of S1-190246.*  Revision of S1-190438. | |
| WID | | [S1-190492](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190492.zip) | KT Corp, LG Electronics, LG Uplus, SK Telecom, SAMSUNG, ETRI, ITL, KRRI | Study on Support for Enhancement of Roaming | Revised to S1-190525 | *Revision of S1-190085.*  *Revision of S1-190246.*  *Revision of S1-190438.*  Revision of S1-190491.  No presentation | |
| WID | | [S1-190525](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190525.zip) | KT Corp, LG Electronics, LG Uplus, SK Telecom, SAMSUNG, ETRI, ITL, KRRI | Study on Support for Enhancement of Roaming | Agreed | *Revision of S1-190085.*  *Revision of S1-190246.*  *Revision of S1-190438.*  *Revision of S1-190491.*  *No presentation*  Revision of S1-190492.  No presentation | |
| WID | | [S1-190110](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190110.zip) | Intel | New WID: Service Support for Multi-USIM devices | Revised to S1-190247 |  | |
| WID | | [S1-190247](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190247.zip) | Intel | New WID: Service Support for Multi-USIM devices | Revised to S1-190439 | Revision of S1-190110. | |
| WID | | [S1-190439](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190439.zip) | Intel | New WID: Service Support for Multi-USIM devices | Revised to S1-190494 | *Revision of S1-190110.*  Revision of S1-190247. | |
| WID | | [S1-190494](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190494.zip) | Intel | New WID: Service Support for Multi-USIM devices | Agreed | *Revision of S1-190110.*  *Revision of S1-190247.*  Revision of S1-190439.  No presentation | |
| Cont | | [S1-190440](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190440.zip) | Intel | TR Skeleton for multi-USIM devices | Revised to S1-190495 |  | |
| Cont | | [S1-190495](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190495.zip) | Intel | TR Skeleton for multi-USIM devices | Agreed | Revision of S1-190440.  Basis for contributions to next meeting  No presentation | |
| CR | | [S1-190113](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190113.zip) | Intel | CR22.101v16.1.0: Service requirements for enabling Multi-USIM devices support | Withdrawn | WI code MUSIM Rel-17 CR0556R- Cat B  Clause affected should be 10.4.2.2 | |
| CR | | [S1-190116](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190116.zip) | Intel | CR22.278v16.1.0:General Service requirements for enabling Multi-USIM devices support | Withdrawn | WI code MUSIM Rel-17 CR0267R- Cat B | |
| Cont | | [S1-190156](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190156.zip) | Qualcomm Incorporated | Use cases for multi-USIM devices | Noted |  | |
| Cont | | [S1-190141](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190141.zip) | Siemens | Motivation for Rel-17 new Study Item on cyberCAV topics | Revised to S1-190222 |  | |
| Cont | | [S1-190222](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190222.zip) | Siemens | Motivation for Rel-17 new Study Item on cyberCAV topics | Noted | Revision of S1-190141. | |
| WID | | [S1-190142](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190142.zip) | Siemens | New SID on further study on service requirements for cyber-physical control applications in vertical domains (cpCAV17) | Revised to S1-190223 |  | |
| WID | | [S1-190223](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190223.zip) | Siemens | New SID on further study on service requirements for cyber-physical control applications in vertical domains (cpCAV17) | Revised to S1-190248 | Revision of S1-190142. | |
| WID | | [S1-190248](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190248.zip) | Siemens | New SID on further study on service requirements for cyber-physical control applications in vertical domains (cpCAV17) | Revised to S1-190441 | *Revision of S1-190142.*  Revision of S1-190223. | |
| WID | | [S1-190441](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190441.zip) | Siemens | New SID on further study on service requirements for cyber-physical control applications in vertical domains (cpCAV17) | Revised to S1-190497 | *Revision of S1-190142.*  *Revision of S1-190223.*  Revision of S1-190248. | |
| WID | | [S1-190497](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190497.zip) | Siemens | New SID on further study on service requirements for cyber-physical control applications in vertical domains (cpCAV17) | Agreed | *Revision of S1-190142.*  *Revision of S1-190223.*  *Revision of S1-190248.*  Revision of S1-190441.  No presentation | |
| Cont | | [S1-190499](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190499.zip) | Siemens | Skeleton for FS\_eCAV TR | Revised to S1-190531 |  | |
| Cont | | [S1-190531](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190531.zip) | Siemens | Skeleton for FS\_eCAV TR | Agreed | Revision of S1-190499.  No presentation | |
| Cont | | [S1-190155](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190155.zip) | Qualcomm Incorporated | Onboarding of industrial IoT devices on a factory non-public network | Revised to S1-190442 |  | |
| Cont | | [S1-190442](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190442.zip) | Qualcomm Incorporated | Onboarding of industrial IoT devices on a factory non-public network | Revised to S1-190463 | Revision of S1-190155. | |
| Cont | | [S1-190463](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190463.zip) | Qualcomm Incorporated | Onboarding of industrial IoT devices on a factory non-public network | Revised to S1-190467 | *Revision of S1-190155.*  Revision of S1-190442. | |
| Cont | | [S1-190467](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190467.zip) | Qualcomm Incorporated | Onboarding of industrial IoT devices on a factory non-public network | Revised to S1-190526 | *Revision of S1-190155.*  *Revision of S1-190442.*  Revision of S1-190463. | |
| Cont | | [S1-190526](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190526.zip) | Qualcomm Incorporated | Onboarding of industrial IoT devices on a factory non-public network | Agreed | *Revision of S1-190155.*  *Revision of S1-190442.*  *Revision of S1-190463.*  Revision of S1-190467.  No presentation | |
| WID | | [S1-190028](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190028.zip) | China Unicom，CATR | New SID Proposal: Study on 5G enhancement for UAVs | Withdrawn |  | |
| 1. **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. | | | | | | | |
| Cont | | [S1-190092](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190092.zip) | Nokia, Ericsson | Discussion of existing 22.186 requirements on QoS prediction | Noted |  | |
| CR | | [S1-190](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190402.zip)402 | Nokia, Ericsson | CR22.168v16.1.0: Clarification on requirements on QoS prediction | Withdrawn | WI code V2XIMP Rel-16 CR0007R- Cat F | |
| 1. **Rel-16 and earlier contributions** | | | | | | | |
| Rel-16 correction and clarification CRs | | | | | | | |
| **cyberCAV, 5GLAN** | | | | | | | |
| CR | | [S1-190017](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190017.zip) | LG Electronics | CR22.011v16.4.0: Clarification on PLMN selection for non public network | Revised to S1-190217 | WI code TEI16 Rel-16 CR0303R- Cat F  WI code cyberCAV | |
| CR | | [S1-190217](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190217.zip) | LG Electronics | CR22.011v16.4.0: Clarification on PLMN selection for non public network | Noted | *WI code TEI16 Rel-16 CR0303R- Cat F*  *WI code cyberCAV*  Revision of S1-190017. | |
| CR | | [S1-190018](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190018.zip) | LG Electronics | CR22.261v16.6.0: Corrections to network access for non public network | Revised to S1-190218 | WI code TEI16 Rel-16 CR0350R- Cat F  WI code cyberCAV | |
| CR | | [S1-190218](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190218.zip) | LG Electronics | CR22.261v16.6.0: Corrections to network access for non public network | Revised to S1-190404 | *WI code TEI16 Rel-16 CR0350R- Cat F*  *WI code cyberCAV*  Revision of S1-190018. | |
| CR | | [S1-190404](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190404.zip) | LG Electronics | CR22.261v16.6.0: Corrections to network access for non public network | Noted | *WI code TEI16 Rel-16 CR0350R- Cat F*  *WI code cyberCAV*  *Revision of S1-190018.*  Revision of S1-190218. | |
| CR | | [S1-190097](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190097.zip) | Siemens | CR22.104v16.0.0: Clean-up and corrections of TS 22.104 cyberCAV | Revised to S1-190405 | WI code cyberCAV Rel-16 CR0001R- Cat F  Add clauses affected | |
| CR | | [S1-190405](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190405.zip) | Siemens | CR22.104v16.0.0: Clean-up and corrections of TS 22.104 cyberCAV | Agreed | *WI code cyberCAV Rel-16 CR0001R- Cat F*  *Add clauses affected*  Revision of S1-190097.  No presentation | |
| CR | | [S1-190158](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190158.zip) | KPN | CR22.104v16.0.0: Clarifying UE-to-UE versus UE-to-network | Revised to S1-190406 | WI code cyberCAV Rel-16 CR0003R- Cat F  Overlapping CR with S1-190118 and S1-190119 | |
| CR | | [S1-190406](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190406.zip) | KPN | CR22.104v16.0.0: Clarifying UE-to-UE versus UE-to-network | Revised to S1-190444 | *WI code cyberCAV Rel-16 CR0003R- Cat F*  *Overlapping CR with S1-190118 and S1-190119*  Revision of S1-190158. | |
| CR | | [S1-190444](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190444.zip) | KPN | CR22.104v16.0.0: Clarifying UE-to-UE versus UE-to-network | Agreed | *WI code cyberCAV Rel-16 CR0003R- Cat F*  *Overlapping CR with S1-190118 and S1-190119*  *Revision of S1-190158.*  Revision of S1-190406.  No presentation | |
| CR | | [S1-190064](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190064.zip) | China Mobile, Huawei | CR22.261v16.6.0: Clarification for 5GLAN requirements | Revised to S1-190407 | WI code TEI16 Rel-16 CR0351R- Cat F  WI code 5GLAN | |
| CR | | [S1-190407](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190407.zip) | China Mobile, Huawei | CR22.261v16.6.0: Clarification for 5GLAN requirements | Agreed | *WI code TEI16 Rel-16 CR0351R- Cat F*  *WI code 5GLAN*  Revision of S1-190064.  No presentation | |
| **RLOS** | | | | | | | |
| CR | | [S1-190022](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190022.zip) | LG Electronics | CR22.011v16.4.0: Corrections to manual PLMN selection | Revised to S1-190408 | WI code TEI16 Rel-16 CR0304R- Cat F  WI code ??? | |
| CR | | [S1-190408](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190408.zip) | LG Electronics | CR22.011v16.4.0: Corrections to manual PLMN selection | Withdrawn | *WI code TEI16 Rel-16 CR0304R- Cat F*  *WI code ???*  Revision of S1-190022. | |
| **Railway / mass transit** | | | | | | | |
| CR | | [S1-190029](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190029.zip) | Kapsch CarrierCom | CR22.179v16.4.0: Add forwarding for private calls | Agreed | WI code MONASTERY2 Rel-16 CR0069R- Cat B | |
| CR | | [S1-190115](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190115.zip) | UIC | CR22.889v16.5.0: Update gap analysis for requirements in subclause 6 Critical communication applications related use cases | Agreed | WI code FS\_FRMCS2 Rel-16 CR0134R- Cat F | |
| CR | | [S1-190126](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190126.zip) | UIC | CR22.889v16.5.0: Update gap analysis for requirements in subclause 9 Critical support applications related use cases | Agreed | WI code FS\_FRMCS2Rel-16 CR0135R- Cat F | |
| CR | | [S1-190128](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190128.zip) | UIC | CR22.889v16.5.0: Update gap analysis for requirements in subclause 11 Business support applications related use cases | Agreed | WI code FS\_FRMCS2 Rel-16 CR0136R- Cat F | |
| CR | | [S1-190130](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190130.zip) | UIC | CR22.889v16.5.0: Update gap analysis for requirements in subclause 12 FRMCS System principles related use cases | Agreed | WI code FS\_FRMCS2 Rel-16 CR0137R- Cat F | |
| Cont | | [S1-190117](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190117.zip) | Siemens, Nokia, UIC | Moving rail-bound mass transit requirements | Noted |  | |
| CR | | [S1-190118](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190118.zip) | Siemens, Nokia, UIC | CR22.104v16.0.0: Moving rail-bound mass transit requirements – shift from cyberCAV | Revised to S1-190430 | WI code TEI16 Rel-16 CR0002R- Cat F  Overlapping CR with S1-190158  Add A1 and A3 to clauses affected  WI code cyberCAV | |
| CR | | [S1-190430](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190430.zip) | Siemens, Nokia, UIC | CR22.104v16.0.0: Moving rail-bound mass transit requirements – shift from cyberCAV | Agreed | *WI code TEI16 Rel-16 CR0002R- Cat F*  *Overlapping CR with S1-190158*  *Add A1 and A3 to clauses affected*  *WI code cyberCAV*  Revision of S1-190118.  No presentation | |
| CR | | [S1-190119](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190119.zip) | Siemens, Nokia, UIC | CR22.289v16.0.0: Moving rail-bound mass transit requirements – shift into FRMCS | Revised to S1-190224 | WI code TEI16 Rel-16 CR0001R- Cat F  Overlapping CR with S1-190158  WI code cyberCAV | |
| CR | | [S1-190224](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190224.zip) | Siemens, Nokia, UIC | CR22.289v16.0.0: Moving rail-bound mass transit requirements – shift into FRMCS | Revised to S1-190429 | *WI code TEI16 Rel-16 CR0001R- Cat F*  *Overlapping CR with S1-190158*  *WI code cyberCAV*  Revision of S1-190119. | |
| CR | | [S1-190429](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190429.zip) | Siemens, Nokia, UIC | CR22.289v16.0.0: Moving rail-bound mass transit requirements – shift into FRMCS | Agreed | *WI code TEI16 Rel-16 CR0001R- Cat F*  *Overlapping CR with S1-190158*  *WI code cyberCAV*  *Revision of S1-190119.*  Revision of S1-190224.  No presentation | |
| **Mission Critical** | | | | | | | |
| CR | | [S1-190036](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190036.zip) | FirstNet | CR22.280v16.4.0: Group regrouping additional requirements | Revised to S1-190409 | WI code TEI16 Rel-16 CR0102R- Cat C  WI code ??? | |
| CR | | [S1-190409](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190409.zip) | FirstNet | CR22.280v16.4.0: Group regrouping additional requirements | Agreed | *WI code TEI16 Rel-16 CR0102R- Cat C*  *WI code ???*  Revision of S1-190036. | |
| **SMARTER\_Ph2** | | | | | | | |
| CR | | [S1-190065](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190065.zip) | China Mobile | CR22.261v16.6.0: Update the Annex D in TS 22.261 to align the references | Revised to S1-190410 | WI code TEI16 Rel-16 CR0xxxR- Cat F  WI code SMARTER\_Ph2 | |
| CR | | [S1-190410](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190410.zip) | China Mobile | CR22.261v16.6.0: Update the Annex D in TS 22.261 to align the references | Agreed | *WI code TEI16 Rel-16 CR0xxxR- Cat F*  *WI code SMARTER\_Ph2*  Revision of S1-190065.  No presentation | |
| CR | | [S1-190066](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190066.zip) | China Mobile, Huawei | CR22.278v16.1.0: Alignment for URLLC KPIs | Noted | WI code TEI16 Rel-16 CR0265R- Cat F  WI code SMARTER\_Ph2 | |
| CR | | [S1-190090](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190090.zip) | Vodafone | CR22.278v16.1.0: Alignment of URLLC requirements | Agreed | WI code SMARTER\_Ph2 Rel-16 CR0266R- Cat F | |
| CR | | [S1-190091](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190091.zip) | Vodafone, Siemens | CR22.261v16.6.0: Correction to the definition of communication service availability | Agreed | WI code SMARTER\_Ph2 Rel-16 CR0354R- Cat F | |
| CR | | [S1-190086](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190086.zip) | Deutsche Telekom | CR22.261v16.6.0: Editorial clean-up of TS 22.261 | Revised to S1-190411 | WI code SMARTER Rel-16 CR0353R- Cat D  WI code SMARTER\_Ph2  Moved from 7 | |
| CR | | [S1-190411](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190411.zip) | Deutsche Telekom | CR22.261v16.6.0: Editorial clean-up of TS 22.261 | Agreed | *WI code SMARTER Rel-16 CR0353R- Cat D*  *WI code SMARTER\_Ph2*  *Moved from 7*  Revision of S1-190086.  No presentation | |
| **V2X** | | | | | | | |
| CR | | [S1-190074](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190074.zip) | Tencent | CR22.186v16.1.0: CR to TS 22.186 on eV2X Requirements | Revised to S1-190403 | WI code TEI16 Rel-16 CR0023R- Cat F  WI code ???, Add clauses affected, No revision marks on cover page | |
| CR | | [S1-190403](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190403.zip) | Tencent | CR22.186v16.1.0: CR to TS 22.186 on eV2X Requirements | Revised to S1-190412 | *WI code TEI16 Rel-16 CR0023R- Cat F*  *WI code ???, Add clauses affected, No revision marks on cover page*  Revision of S1-190074. | |
| CR | | [S1-190412](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190412.zip) | Tencent | CR22.186v16.1.0: CR to TS 22.186 on eV2X Requirements | Noted | *WI code TEI16 Rel-16 CR0023R- Cat F*  *WI code ???, Add clauses affected, No revision marks on cover page*  *Revision of S1-190074.*  Revision of S1-190403. | |
| **ID\_UAS** | | | | | | | |
| CR | | [S1-190121](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190121.zip) | Intel | CR22.125v16.0.0: Clarification for Service Requirements on Centralized UTM | Revised to S1-190413 | WI code ID\_UAS Rel-16 CR0003R- Cat B  Remove changes on changes | |
| CR | | [S1-190413](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190413.zip) | Intel | CR22.125v16.0.0: Clarification for Service Requirements on Centralized UTM | Revised to S1-190445 | *WI code ID\_UAS Rel-16 CR0003R- Cat B*  *Remove changes on changes*  Revision of S1-190121. | |
| CR | | [S1-190445](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190445.zip) | Intel | CR22.125v16.0.0: Clarification for Service Requirements on Centralized UTM | Revised to S1-190507 | *WI code ID\_UAS Rel-16 CR0003R- Cat B*  *Remove changes on changes*  *Revision of S1-190121.*  Revision of S1-190413. | |
| CR | | [S1-190507](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190507.zip) | Intel | CR22.125v16.0.0: Clarification for Service Requirements on Centralized UTM | Agreed | *WI code ID\_UAS Rel-16 CR0003R- Cat B*  *Remove changes on changes*  *Revision of S1-190121.*  *Revision of S1-190413.*  Revision of S1-190445.  No presentation | |
| CR | | [S1-190414](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190414.zip) | Deutsche Telekom | CR22.125v16.0.0: Removal of requirement on enforcement | Agreed | *WI code ID\_UAS Rel-16 CR0003R- Cat B*  Revision of S1-190121. | |
| CR | | [S1-190122](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190122.zip) | Intel | CR22.125v16.0.0: Clarification of Decentralized UTM for Collision Avoidance | Revised to S1-190415 | WI code MuSIM Rel-16 CR0004R- Cat B  WI code ID\_UAS | |
| CR | | [S1-190415](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190415.zip) | Intel | CR22.125v16.0.0: Clarification of Decentralized UTM for Collision Avoidance | Revised to S1-190446 | *WI code MuSIM Rel-16 CR0004R- Cat B*  *WI code ID\_UAS*  Revision of S1-190122. | |
| CR | | [S1-190446](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190446.zip) | Intel | CR22.125v16.0.0: Clarification of Decentralized UTM for Collision Avoidance | Revised to S1-190508 | *WI code MuSIM Rel-16 CR0004R- Cat B*  *WI code ID\_UAS*  *Revision of S1-190122.*  Revision of S1-190415. | |
| CR | | [S1-190508](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190508.zip) | Intel | CR22.125v16.0.0: Clarification of Decentralized UTM for Collision Avoidance | Agreed | *WI code MuSIM Rel-16 CR0004R- Cat B*  *WI code ID\_UAS*  *Revision of S1-190122.*  *Revision of S1-190415.*  Revision of S1-190446.  No presentation | |
| CR | | [S1-190133](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190133.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Detect and report the problematic UAV controller to UTM | Revised to S1-190416 | WI code UAS Rel-16 CR0005R- Cat F  WI code ID\_UAS | |
| CR | | [S1-190416](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190416.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Detect and report the problematic UAV controller to UTM | Agreed | *WI code UAS Rel-16 CR0005R- Cat F*  *WI code ID\_UAS*  Revision of S1-190133.  No presentation | |
| CR | | [S1-190120](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190120.zip) | Intel | CR22.125v16.0.0: Clarification of UTM Definition | Revised to S1-190417 | WI code ID\_UAS Rel-16 CR0002R- Cat F | |
| CR | | [S1-190417](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190417.zip) | Intel | CR22.125v16.0.0: Clarification of UTM Definition | Revised to S1-190512 | *WI code ID\_UAS Rel-16 CR0002R- Cat F*  Revision of S1-190120. | |
| CR | | [S1-190512](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190512.zip) | Intel | CR22.125v16.0.0: Clarification of UTM Definition | Agreed | *WI code ID\_UAS Rel-16 CR0002R- Cat F*  *Revision of S1-190120.*  Revision of S1-190417.  No presentation | |
| CR | | [S1-190134](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190134.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Definition and Clarification for UTM | Revised to S1-190418 | WI code UAS Rel-16 CR0006R- Cat B  WI code ID\_UAS. Cat F | |
| CR | | [S1-190418](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190418.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Definition and Clarification for UTM | Revised to S1-190448 | *WI code UAS Rel-16 CR0006R- Cat B*  *WI code ID\_UAS. Cat F*  Revision of S1-190134. | |
| CR | | [S1-190448](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190448.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Definition and Clarification for UTM | Revised to S1-190513 | *WI code UAS Rel-16 CR0006R- Cat B*  *WI code ID\_UAS. Cat F*  *Revision of S1-190134.*  Revision of S1-190418. | |
| CR | | [S1-190513](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190513.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Definition and Clarification for UTM | Agreed | *WI code UAS Rel-16 CR0006R- Cat B*  *WI code ID\_UAS. Cat F*  *Revision of S1-190134.*  *Revision of S1-190418.*  Revision of S1-190448.  No presentation | |
| CR | | [S1-190136](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190136.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Addition for Abbreviations | Revised to S1-190423 | WI code UAS Rel-16 CR0008R- Cat B  WI code ID\_UAS. Cat F | |
| CR | | [S1-190423](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190423.zip) | Huawei, Deutsche Telekom | CR22.125v16.0.0: Addition for Abbreviations | Agreed | *WI code UAS Rel-16 CR0008R- Cat B*  *WI code ID\_UAS. Cat F*  Revision of S1-190136.  No presentation | |
| CR | | [S1-190138](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190138.zip) | Huawei | CR22.125v16.0.0: Clarification for identity of UAV controller data | Revised to S1-190422 | WI code UAS Rel-16 CR0009R- Cat F  WI code ID\_UAS | |
| CR | | [S1-190422](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190422.zip) | Huawei | CR22.125v16.0.0: Clarification for identity of UAV controller data | Agreed | *WI code UAS Rel-16 CR0009R- Cat F*  *WI code ID\_UAS*  Revision of S1-190138.  No presentation | |
| CR | | [S1-190148](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190148.zip) | Siemens | CR22.289v16.0.0: Editorial corrections to TS 22.289 | Revised to S1-190424 | WI code MONASTERY2 Rel-16 CR0002R- Cat D | |
| CR | | [S1-190424](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190424.zip) | Siemens | CR22.289v16.0.0: Editorial corrections to TS 22.289 | Agreed | *WI code MONASTERY2 Rel-16 CR0002R- Cat D*  Revision of S1-190148.  No presentation | |
| CR | | [S1-190013](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190013.zip) | Kapsch CarrierCom | CR22.280v16.4.0: Add forwarding for private calls | Withdrawn | WI code MONASTERY2 Rel-16 CR0092R4 Cat F | |
| CR | | [S1-190135](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190135.zip) | Huawei Tech.(UK) Co., Ltd, Deutsche Telekom | CR22.125v16.0.0: Clarification for identity of UAV controller data | Withdrawn | WI code ID\_UAS Rel-16 CR0007R- Cat F | |
| 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) | | | | | | | |
| 1. **Rel-16 Work Item contributions** | | | | | | | |
| CR | | [S1-190086](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190086.zip) | Deutsche Telekom | CR22.261v16.6.0: Editorial clean-up of TS 22.261 | Moved to 6.1 | WI code SMARTER Rel-16 CR0353R- Cat D | |
| MARCOM: Maritime Communication Services over 3GPP System [SP-180327] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TR22.119v16.0.0  Target completion date: SA#82 (12/2018)  Percentage completion: 95%  NOTE : proposed updates of TR22.119 need to use the CR format, as TR22.19 is an approved TS | | | | | | | |
| CR | | [S1-190044](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190044.zip) | SyncTechno Inc. | CR22.119v16.0.0: Deletion of Annex A and Annex B in TS 22.119 | Noted | WI code MARCOM Rel-16 CR0001R- Cat D  Source to TSG is S1 | |
| OUT | | [S1-190060](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190060.zip) | SyncTechno Inc. | LS on the update of 3GPP Release 16 Stage 1 MARCOM standardization | Revised to S1-190426 |  | |
| OUT | | [S1-190426](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190426.zip) | SyncTechno Inc. | LS on the update of 3GPP Release 16 Stage 1 MARCOM standardization | Agreed | Revision of S1-190060.  Including removal of DRAFT word  No presentation | |
| V2XIMP: Improvement of V2X Service Handling [SP-181013] | | | | | | | |
| **Work status prior to this meeting:**  Target completion date: SA#82 (12/2018)  Percentage completion: 95% | | | | | | | |
| CR | | [S1-190025](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190025.zip) | ZTE Corporation | CR22.186v16.1.0: Supplemented Normative Requirements for Improvement of V2X service Handling | Noted | WI code V2XIMP Rel-16 CR0021R- Cat F | |
| CR | | [S1-190089](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190089.zip) | Huawei | CR22.186v16.1.0: Terminology alignment in TS 22.186 | Noted | WI code V2XIMP Rel-16 CR0024R- Cat D  Clauses affected 5.6  Please combine changes to 5.6 in one section | |
| CR | | [S1-190071](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190071.zip) | Nokia Shanghai Bell | CR22.186v16.1.0: V2X QoS Prediction | Withdrawn | WI code V2XIMP Rel-16 CR0022R- Cat F | |
| 1. **Rel-17 Study Item contributions** | | | | | | | |
| FS\_NCIS: Study on Network Controlled Interactive Service in 5GS [SP-180341] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TR 22.842v1.0.0  Target completion date: SA#83 (03/2019)  Percentage completion: 60% | | | | | | | |
| Cont | | [S1-190037](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190037.zip) | OPPO | Revision of NCIS Overview | Revised to S1-190250 |  | |
| Cont | | [S1-190250](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190250.zip) | OPPO | Revision of NCIS Overview | Agreed | Revision of S1-190037. | |
| Cont | | [S1-190038](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190038.zip) | OPPO | Additional Requirements for NCIS Services | Revised to S1-190226 |  | |
| Cont | | [S1-190226](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190226.zip) | OPPO | Additional Requirements for NCIS Services | Revised to S1-190251 | Revision of S1-190038. | |
| Cont | | [S1-190251](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190251.zip) | OPPO | Additional Requirements for NCIS Services | Revised to S1-190266 | *Revision of S1-190038.*  Revision of S1-190226. | |
| Cont | | [S1-190266](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190266.zip) | OPPO | Additional Requirements for NCIS Services | Agreed | *Revision of S1-190038.*  *Revision of S1-190226.*  Revision of S1-190251.  No presentation | |
| Cont | | [S1-190063](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190063.zip) | China Mobile, OPPO | Add New Requirements to Use Case 5.3 | Revised to S1-190252 |  | |
| Cont | | [S1-190252](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190252.zip) | China Mobile, OPPO | Add New Requirements to Use Case 5.3 | Revised to S1-190267 | Revision of S1-190063. | |
| Cont | | [S1-190267](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190267.zip) | China Mobile, OPPO | Add New Requirements to Use Case 5.3 | Revised to S1-190515 | *Revision of S1-190063.*  Revision of S1-190252. | |
| Cont | | [S1-190515](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190515.zip) | China Mobile, OPPO | Add New Requirements to Use Case 5.3 | Agreed | *Revision of S1-190063.*  *Revision of S1-190252.*  Revision of S1-190267.  No presentation | |
| Cont | | [S1-190067](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190067.zip) | Tencent | Further Discussion on Packet Loss Rate and pCR to TR 22.842 | Agreed |  | |
| Cont | | [S1-190127](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190127.zip) | Intel | Service Requirements for Interactive Service | Revised to S1-190253 |  | |
| Cont | | [S1-190253](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190253.zip) | Intel | Service Requirements for Interactive Service | Revised to S1-190268 | Revision of S1-190127. | |
| Cont | | [S1-190268](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190268.zip) | Intel | Service Requirements for Interactive Service | Revised to S1-190516 | *Revision of S1-190127.*  Revision of S1-190253. | |
| Cont | | [S1-190516](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190516.zip) | Intel | Service Requirements for Interactive Service | Agreed | *Revision of S1-190127.*  *Revision of S1-190253.*  Revision of S1-190268.  No presentation | |
| Cont | | [S1-190129](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190129.zip) | Intel | Service Requirements for Cloud Rendering Gaming | Revised to S1-190419 |  | |
| Cont | | [S1-190419](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190419.zip) | Intel | Service Requirements for Cloud Rendering Gaming | Revised to S1-190254 | Revision of S1-190129. | |
| Cont | | [S1-190254](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190254.zip) | Intel | Service Requirements for Cloud Rendering Gaming | Revised to S1-190269 | *Revision of S1-190129.*  Revision of S1-190419. | |
| Cont | | [S1-190269](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190269.zip) | Intel | Service Requirements for Cloud Rendering Gaming | Revised to S1-190451 | *Revision of S1-190129.*  *Revision of S1-190419.*  Revision of S1-190254. | |
| Cont | | [S1-190451](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190451.zip) | Intel | Service Requirements for Cloud Rendering Gaming | Agreed | *Revision of S1-190129.*  *Revision of S1-190419.*  *Revision of S1-190254.*  Revision of S1-190269.  No presentation | |
| Cont | | [S1-190039](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190039.zip) | OPPO | NCIS use case – Communication within NCIS Group | Revised to S1-190227 |  | |
| Cont | | [S1-190227](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190227.zip) | OPPO | NCIS use case – Communication within NCIS Group | Revised to S1-190255 | Revision of S1-190039. | |
| Cont | | [S1-190255](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190255.zip) | OPPO | NCIS use case – Communication within NCIS Group | Revised to S1-190278 | *Revision of S1-190039.*  Revision of S1-190227. | |
| Cont | | [S1-190278](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190278.zip) | OPPO | NCIS use case – Communication within NCIS Group | Revised to S1-190452 | *Revision of S1-190039.*  *Revision of S1-190227.*  Revision of S1-190255. | |
| Cont | | [S1-190452](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190452.zip) | OPPO | NCIS use case – Communication within NCIS Group | Revised to S1-190518 | *Revision of S1-190039.*  *Revision of S1-190227.*  *Revision of S1-190255.*  Revision of S1-190278. | |
| Cont | | [S1-190518](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190518.zip) | OPPO | NCIS use case – Communication within NCIS Group | Agreed | *Revision of S1-190039.*  *Revision of S1-190227.*  *Revision of S1-190255.*  *Revision of S1-190278.*  Revision of S1-190452.  No presentation | |
| Cont | | [S1-190040](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190040.zip) | OPPO | NCIS use case – Service Continuity within NCIS Group | Revised to S1-190228 |  | |
| Cont | | [S1-190228](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190228.zip) | OPPO | NCIS use case – Service Continuity within NCIS Group | Noted | Revision of S1-190040. | |
| Cont | | [S1-190041](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190041.zip) | OPPO | NCIS use case – Potential Requirements | Revised to S1-190280 |  | |
| Cont | | [S1-190280](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190280.zip) | OPPO | NCIS use case – Potential Requirements | Noted | Revision of S1-190041. | |
| Cont | | [S1-190042](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190042.zip) | OPPO | NCIS use case – Conclusions and Recommendations | Revised to S1-190281 |  | |
| Cont | | [S1-190281](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190281.zip) | OPPO | NCIS use case – Conclusions and Recommendations | Withdrawn | Revision of S1-190042. | |
| Cont | | [S1-190069](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190069.zip) | Tencent | Discussion on Asymmetric Traffic for Cloud Gaming and pCR to TR 22.842 | Revised to S1-190265 |  | |
| Cont | | [S1-190265](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190265.zip) | Tencent | Discussion on Asymmetric Traffic for Cloud Gaming and pCR to TR 22.842 | Revised to S1-190453 | Revision of S1-190069. | |
| Cont | | [S1-190453](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190453.zip) | Tencent | Discussion on Asymmetric Traffic for Cloud Gaming and pCR to TR 22.842 | Agreed | *Revision of S1-190069.*  Revision of S1-190265. | |
| Cont | | [S1-190256](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190265.zip) | OPPO/Rapporteur | Clean up of TR 22.842 | Revised to S1-190279 | Revision of S1-190069. | |
| Cont | | [S1-190279](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190279.zip) | OPPO/Rapporteur | Clean up of TR 22.842 | Agreed | *Revision of S1-190069.*  Revision of S1-190256. | |
| FS\_NCIS output + session information | | | | | | | |
| TR | | [S1-190174](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190174.zip) | Rapporteur (OPPO) | TR22.842v1.1.0 to include agreements at this meeting | Agreed | No presentation | |
| TR | | [S1-190175](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190175.zip) | Rapporteur (OPPO) | Cover page for presentation of TS22.842v2.0.0 | Withdrawn |  | |
| AGE | | [S1-190176](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190176.zip) | Session Chair | FS\_NCIS drafting agenda | Agreed |  | |
| REP | | [S1-190177](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190177.zip) | Session Chair | FS\_NCIS drafting report | Agreed |  | |
| FS\_AVPROD: Feasibility Study on Audio-Visual Service Production [SP-181015] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TR 22.827v0.2.0  Target completion date: SA#84 (06/2019)  Percentage completion: 50% | | | | | | | |
| Cont | | [S1-190034](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190034.zip) | EBU, BBC | TR22.827: Overview | Revised to S1-190325 |  | |
| Cont | | [S1-190325](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190325.zip) | EBU, BBC | TR22.827: Overview | Agreed | Revision of S1-190034. | |
| Cont | | [S1-190035](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190035.zip) | EBU, BBC | TR22.827: Definitions | Revised to S1-190326 |  | |
| Cont | | [S1-190326](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190326.zip) | EBU, BBC | TR22.827: Definitions | Revised to S1-190468 | Revision of S1-190035. | |
| Cont | | [S1-190468](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190468.zip) | EBU, BBC | TR22.827: Definitions | Agreed | *Revision of S1-190035.*  Revision of S1-190326.  No presentation | |
| Cont | | [S1-190030](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190030.zip) | EBU, BBC | TR22.827: Single-Source uncompressed Outside Broadcast Contribution | Revised to S1-190327 |  | |
| Cont | | [S1-190327](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190327.zip) | EBU, BBC | TR22.827: Single-Source uncompressed Outside Broadcast Contribution | Revised to S1-190469 | Revision of S1-190030. | |
| Cont | | [S1-190469](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190469.zip) | EBU, BBC | TR22.827: Single-Source uncompressed Outside Broadcast Contribution | Revised to S1-190519 | *Revision of S1-190030.*  Revision of S1-190327. | |
| Cont | | [S1-190519](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190519.zip) | EBU, BBC | TR22.827: Single-Source uncompressed Outside Broadcast Contribution | Agreed | *Revision of S1-190030.*  *Revision of S1-190327.*  Revision of S1-190469.  No presentation | |
| Cont | | [S1-190031](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190031.zip) | EBU, BBC | TR22.827: Single-Source compressed Outside Broadcast Contribution | Revised to S1-190328 |  | |
| Cont | | [S1-190328](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190328.zip) | EBU, BBC | TR22.827: Single-Source compressed Outside Broadcast Contribution | Revised to S1-190470 | Revision of S1-190031. | |
| Cont | | [S1-190470](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190470.zip) | EBU, BBC | TR22.827: Single-Source compressed Outside Broadcast Contribution | Agreed | *Revision of S1-190031.*  Revision of S1-190328.  No presentation | |
| Cont | | [S1-190032](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190032.zip) | EBU, BBC | TR22.827: Professional TV Production Contributions | Revised to S1-190329 |  | |
| Cont | | [S1-190329](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190329.zip) | EBU, BBC | TR22.827: Professional TV Production Contributions | Revised to S1-190471 | Revision of S1-190032. | |
| Cont | | [S1-190471](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190471.zip) | EBU, BBC | TR22.827: Professional TV Production Contributions | Revised to S1-190520 | *Revision of S1-190032.*  Revision of S1-190329. | |
| Cont | | [S1-190520](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190520.zip) | EBU, BBC | TR22.827: Professional TV Production Contributions | Agreed | *Revision of S1-190032.*  *Revision of S1-190329.*  Revision of S1-190471.  No presentation | |
| Cont | | [S1-190033](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190033.zip) | EBU, BBC | TR22.827: Simple Live Sports Commentary | Revised to S1-190330 |  | |
| Cont | | [S1-190330](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190330.zip) | EBU, BBC | TR22.827: Simple Live Sports Commentary | Agreed | Revision of S1-190033. | |
| Cont | | [S1-190056](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190056.zip) | EBU, BBC | TR22.827: Video Streaming of Live Events using an Airborne Relay | Revised to S1-190331 |  | |
| Cont | | [S1-190331](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190331.zip) | EBU, BBC | TR22.827: Video Streaming of Live Events using an Airborne Relay | Revised to S1-190472 | Revision of S1-190056. | |
| Cont | | [S1-190472](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190472.zip) | EBU, BBC | TR22.827: Video Streaming of Live Events using an Airborne Relay | Revised to S1-190521 | *Revision of S1-190056.*  Revision of S1-190331. | |
| Cont | | [S1-190521](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190521.zip) | EBU, BBC | TR22.827: Video Streaming of Live Events using an Airborne Relay | Agreed | *Revision of S1-190056.*  *Revision of S1-190331.*  Revision of S1-190472.  No presentation | |
| Cont | | [S1-190125](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190125.zip) | Intel | Service requirements for use case of live immersive media production | Revised to S1-190332 |  | |
| Cont | | [S1-190332](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190332.zip) | Intel | Service requirements for use case of live immersive media production | Agreed | Revision of S1-190125. | |
| Cont | | [S1-190143](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190143.zip) | Sennheiser electronic GmbH | Gap analysis: Audio Streaming in Professional Live Performances | Revised to S1-190235 |  | |
| Cont | | [S1-190235](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190235.zip) | Sennheiser electronic GmbH | Gap analysis: Audio Streaming in Professional Live Performances | Revised to S1-190333 | Revision of S1-190143. | |
| Cont | | [S1-190333](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190333.zip) | Sennheiser electronic GmbH | Gap analysis: Audio Streaming in Professional Live Performances | Revised to S1-190461 | *Revision of S1-190143.*  Revision of S1-190235. | |
| Cont | | [S1-190461](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190461.zip) | Sennheiser electronic GmbH | Gap analysis: Audio Streaming in Professional Live Performances | Agreed | *Revision of S1-190143.*  *Revision of S1-190235.*  Revision of S1-190333. | |
| Cont | | [S1-190144](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190144.zip) | Sennheiser electronic GmbH | Gap analysis: On-site Live Audio Presentation | Revised to S1-190236 |  | |
| Cont | | [S1-190236](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190236.zip) | Sennheiser electronic GmbH | Gap analysis: On-site Live Audio Presentation | Revised to S1-190334 | Revision of S1-190144. | |
| Cont | | [S1-190334](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190334.zip) | Sennheiser electronic GmbH | Gap analysis: On-site Live Audio Presentation | Revised to S1-190462 | *Revision of S1-190144.*  Revision of S1-190236. | |
| Cont | | [S1-190462](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190462.zip) | Sennheiser electronic GmbH | Gap analysis: On-site Live Audio Presentation | Agreed | *Revision of S1-190144.*  *Revision of S1-190236.*  Revision of S1-190334. | |
| Cont | | [S1-190145](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190145.zip) | Sennheiser electronic GmbH | Gap analysis: Live production with integrated audience services | Revised to S1-190237 |  | |
| Cont | | [S1-190237](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190237.zip) | Sennheiser electronic GmbH | Gap analysis: Live production with integrated audience services | Revised to S1-190335 | Revision of S1-190145. | |
| Cont | | [S1-190335](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190335.zip) | Sennheiser electronic GmbH | Gap analysis: Live production with integrated audience services | Revised to S1-190464 | *Revision of S1-190145.*  Revision of S1-190237. | |
| Cont | | [S1-190464](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190464.zip) | Sennheiser electronic GmbH | Gap analysis: Live production with integrated audience services | Agreed | *Revision of S1-190145.*  *Revision of S1-190237.*  Revision of S1-190335. | |
| Cont | | [S1-190147](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190147.zip) | Sennheiser electronic GmbH | Gap analysis: Intercom system for large live events | Revised to S1-190238 |  | |
| Cont | | [S1-190238](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190238.zip) | Sennheiser electronic GmbH | Gap analysis: Intercom system for large live events | Revised to S1-190340 | Revision of S1-190147. | |
| Cont | | [S1-190340](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190340.zip) | Sennheiser electronic GmbH | Gap analysis: Intercom system for large live events | Revised to S1-190465 | *Revision of S1-190147.*  Revision of S1-190238. | |
| Cont | | [S1-190465](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190465.zip) | Sennheiser electronic GmbH | Gap analysis: Intercom system for large live events | Revised to S1-190522 | *Revision of S1-190147.*  *Revision of S1-190238.*  Revision of S1-190340. | |
| Cont | | [S1-190522](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190522.zip) | Sennheiser electronic GmbH | Gap analysis: Intercom system for large live events | Agreed | *Revision of S1-190147.*  *Revision of S1-190238.*  *Revision of S1-190340.*  Revision of S1-190465.  No presentation | |
| Cont | | [S1-190057](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190057.zip) | EBU, BBC | TR22.827: Video Streaming in Professional Coverage of Live Performances | Revised to S1-190338 |  | |
| Cont | | [S1-190338](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190338.zip) | EBU, BBC | TR22.827: Video Streaming in Professional Coverage of Live Performances | Revised to S1-190523 | Revision of S1-190057. | |
| Cont | | [S1-190523](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190523.zip) | EBU, BBC | TR22.827: Video Streaming in Professional Coverage of Live Performances | Agreed | *Revision of S1-190057.*  Revision of S1-190338.  No presentation | |
| Cont | | [S1-190154](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190154.zip) | Qualcomm Incorporated | Authentication of heterogeneous AVProd devices on a shared non-public network | Revised to S1-190339 |  | |
| Cont | | [S1-190339](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190339.zip) | Qualcomm Incorporated | Authentication of heterogeneous AVProd devices on a shared non-public network | Revised to S1-190466 | Revision of S1-190154. | |
| Cont | | [S1-190466](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190466.zip) | Qualcomm Incorporated | Authentication of heterogeneous AVProd devices on a shared non-public network | Revised to S1-190524 | *Revision of S1-190154.*  Revision of S1-190339. | |
| Cont | | [S1-190524](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190524.zip) | Qualcomm Incorporated | Authentication of heterogeneous AVProd devices on a shared non-public network | Agreed | *Revision of S1-190154.*  *Revision of S1-190339.*  Revision of S1-190466.  No presentation | |
| FS\_AVPROD output + session information | | | | | | | |
| TR | | [S1-190178](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190178.zip) | Rapporteur (EBU) | TR22.827v0.3.0 to include agreements at this meeting | Agreed | No presentation | |
| TR | | [S1-190179](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190179.zip) | Rapporteur (EBU) | Cover page for presentation of TR22.827v1.0.0 | Revised to S1-190529 |  | |
| TR | | [S1-190529](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190529.zip) | Rapporteur (EBU) | Cover page for presentation of TR22.827v1.0.0 | Agreed | Revision of S1-190179. | |
| AGE | | [S1-190180](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190180.zip) | Session Chair | FS\_AVPROD drafting agenda | Agreed |  | |
| REP | | [S1-190181](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190181.zip) | Session Chair | FS\_AVPROD drafting report | Agreed |  | |
| FS\_MPS2: Feasibility Study on Multimedia Priority Service (MPS) Phase 2 [SP-170996] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TR22.854v0.5.0  Target completion date: SA#85 (09/2019)  Percentage completion: 65% | | | | | | | |
| Cont | | [S1-190075](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190075.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel video or video conference termination to a UE | Revised to S1-190350 |  | |
| Cont | | [S1-190350](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190350.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel video or video conference termination to a UE | Revised to S1-190367 | Revision of S1-190075. | |
| Cont | | [S1-190367](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190367.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel video or video conference termination to a UE | Agreed | *Revision of S1-190075.*  Revision of S1-190350.  No presentation | |
| Cont | | [S1-190076](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190076.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice or voice conference call termination to a UE | Revised to S1-190351 |  | |
| Cont | | [S1-190351](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190351.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice or voice conference call termination to a UE | Revised to S1-190368 | Revision of S1-190076. | |
| Cont | | [S1-190368](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190368.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice or voice conference call termination to a UE | Agreed | *Revision of S1-190076.*  Revision of S1-190351.  No presentation | |
| Cont | | [S1-190077](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190077.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for streaming video | Revised to S1-190352 |  | |
| Cont | | [S1-190352](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190352.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for streaming video | Agreed | Revision of S1-190077. | |
| Cont | | [S1-190078](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190078.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice invoked from a public UE | Revised to S1-190353 |  | |
| Cont | | [S1-190353](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190353.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice invoked from a public UE | Revised to S1-190370 | Revision of S1-190078. | |
| Cont | | [S1-190370](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190370.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice invoked from a public UE | Agreed | *Revision of S1-190078.*  Revision of S1-190353.  No presentation | |
| Cont | | [S1-190079](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190079.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice conference invoked from a public UE | Revised to S1-190354 |  | |
| Cont | | [S1-190354](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190354.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice conference invoked from a public UE | Revised to S1-190369 | Revision of S1-190079. | |
| Cont | | [S1-190369](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190369.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for MMTel voice conference invoked from a public UE | Agreed | *Revision of S1-190079.*  Revision of S1-190354.  No presentation | |
| Cont | | [S1-190080](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190080.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for text messaging from an MPS subscribed UE | Revised to S1-190355 |  | |
| Cont | | [S1-190355](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190355.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for text messaging from an MPS subscribed UE | Withdrawn | Revision of S1-190080. | |
| Cont | | [S1-190081](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190081.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for text messaging from a public UE | Revised to S1-190356 |  | |
| Cont | | [S1-190356](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190356.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for text messaging from a public UE | Withdrawn | Revision of S1-190081. | |
| Cont | | [S1-190082](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190082.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for text messaging from an IoT device | Revised to S1-190357 |  | |
| Cont | | [S1-190357](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190357.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS for text messaging from an IoT device | Withdrawn | Revision of S1-190082. | |
| Cont | | [S1-190083](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190083.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS text messaging termination | Revised to S1-190358 |  | |
| Cont | | [S1-190358](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190358.zip) | Perspecta Labs, OEC, AT&T, Sprint, Verizon | MPS text messaging termination | Withdrawn | Revision of S1-190083. | |
| FS\_MPS2 output + session information | | | | | | | |
| TR | | [S1-190182](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190182.zip) | Rapporteur (Perspecta Labs) | TS22.854v0.6.0 to include agreements at this meeting | Revised to S1-190528 |  | |
| TR | | [S1-190528](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190528.zip) | Rapporteur (Perspecta Labs) | TS22.854v0.6.0 to include agreements at this meeting | Agreed | Revision of S1-190182.  No presentation | |
| TR | | [S1-190183](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190183.zip) | Rapporteur (Perspecta Labs) | Cover page for presentation of TS22.854v1.0.0 | Revised to S1-190527 |  | |
| TR | | [S1-190527](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190527.zip) | Rapporteur (Perspecta Labs) | Cover page for presentation of TS22.854v1.0.0 | Agreed | Revision of S1-190183.  No presentation | |
| AGE | | [S1-190184](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190184.zip) | Session Chair | FS\_MPS2 drafting agenda | Agreed |  | |
| REP | | [S1-190185](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190185.zip) | Session Chair | FS\_MPS2 drafting report | Agreed |  | |
| FS\_CMED: Feasibility Study on Communication Services for Critical Medical Applications [SP-170783] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TS22.826v0.1.0  Target completion date: SA#85 (09/2019)  Percentage completion: 15% | | | | | | | |
| Cont | | [S1-190045](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190045.zip) | b<>com | FS\_CMED – Complements on section 5.2.1.1 on static-local modality overview | Revised to S1-190300 |  | |
| Cont | | [S1-190300](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190300.zip) | b<>com | FS\_CMED – Complements on section 5.2.1.1 on static-local modality overview | Agreed | Revision of S1-190045. | |
| Cont | | [S1-190046](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190046.zip) | b<>com | FS\_CMED – Complements on section 5.2.1.3 on latency considerations | Revised to S1-190301 |  | |
| Cont | | [S1-190301](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190301.zip) | b<>com | FS\_CMED – Complements on section 5.2.1.3 on latency considerations | Agreed | Revision of S1-190046. | |
| Cont | | [S1-190047](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190047.zip) | b<>com | FS\_CMED – Correction of Performances in ARAS | Revised to S1-190302 |  | |
| Cont | | [S1-190302](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190302.zip) | b<>com | FS\_CMED – Correction of Performances in ARAS | Agreed | Revision of S1-190047. | |
| Cont | | [S1-190048](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190048.zip) | b<>com | FS\_CMED – Correction of Performances in Ultrasound examination and remote interventional support | Revised to S1-190303 |  | |
| Cont | | [S1-190303](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190303.zip) | b<>com | FS\_CMED – Correction of Performances in Ultrasound examination and remote interventional support | Agreed | Revision of S1-190048. | |
| Cont | | [S1-190104](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190104.zip) | Nokia, Nokia Shanghai Bell | FS\_CMED cleanup of duplicating video on additional monitors use case | Agreed |  | |
| Cont | | [S1-190105](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190105.zip) | Nokia, Nokia Shanghai Bell | FS\_CMED cleanup of Augmented Reality Assisted Surgery | Agreed |  | |
| Cont | | [S1-190106](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190106.zip) | Nokia, Nokia Shanghai Bell | FS\_CMED cleanup of Emergency Care | Agreed |  | |
| Cont | | [S1-190054](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190054.zip) | b<>com | FS\_CMED – Addition of text for section 5.3.1 (Description for Static-Remote modality) | Agreed |  | |
| Cont | | [S1-190052](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190052.zip) | b<>com | FS\_CMED – Removal of Editor’s notes | Revised to S1-190304 |  | |
| Cont | | [S1-190304](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190304.zip) | b<>com | FS\_CMED – Removal of Editor’s notes | Agreed | Revision of S1-190052. | |
| Cont | | [S1-190049](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190049.zip) | b<>com | FS\_CMED – Definition section | Revised to S1-190305 |  | |
| Cont | | [S1-190305](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190305.zip) | b<>com | FS\_CMED – Definition section | Agreed | Revision of S1-190049. | |
| Cont | | [S1-190055](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190055.zip) | b<>com | FS\_CMED – Terminology alignments to definition section | Revised to S1-190309 |  | |
| Cont | | [S1-190309](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190309.zip) | b<>com | FS\_CMED – Terminology alignments to definition section | Agreed | Revision of S1-190055. | |
| Cont | | [S1-190050](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190050.zip) | b<>com | FS\_CMED – Overview section | Revised to S1-190310 |  | |
| Cont | | [S1-190310](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190310.zip) | b<>com | FS\_CMED – Overview section | Agreed | Revision of S1-190050. | |
| Cont | | [S1-190058](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190058.zip) | Fujitsu | Communication QoS Requirement for Robotic Telesurgery | Revised to S1-190308 |  | |
| Cont | | [S1-190308](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190308.zip) | Fujitsu | Communication QoS Requirement for Robotic Telesurgery | Revised to S1-190311 | Revision of S1-190058. | |
| Cont | | [S1-190311](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190311.zip) | Fujitsu | Communication QoS Requirement for Robotic Telesurgery | Revised to S1-190487 | *Revision of S1-190058.*  Revision of S1-190308. | |
| Cont | | [S1-190487](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190487.zip) | Fujitsu | Communication QoS Requirement for Robotic Telesurgery | Agreed | *Revision of S1-190058.*  *Revision of S1-190308.*  Revision of S1-190311.  No presentation | |
| Cont | | [S1-190051](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190051.zip) | b<>com, Orange | FS\_CMED – Patient monitoring inside ambulances | Revised to S1-190215 |  | |
| Cont | | [S1-190215](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190215.zip) | b<>com, Orange | FS\_CMED – Patient monitoring inside ambulances | Revised to S1-190312 | Revision of S1-190051. | |
| Cont | | [S1-190312](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190312.zip) | b<>com, Orange | FS\_CMED – Patient monitoring inside ambulances | Revised to S1-190488 | *Revision of S1-190051.*  Revision of S1-190215. | |
| Cont | | [S1-190488](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190488.zip) | b<>com, Orange | FS\_CMED – Patient monitoring inside ambulances | Agreed | *Revision of S1-190051.*  *Revision of S1-190215.*  Revision of S1-190312. | |
| Cont | | [S1-190053](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190053.zip) | b<>com, Orange | FS\_CMED – Robotic Aided Surgery for Wireless Operating Rooms | Revised to S1-190307 |  | |
| Cont | | [S1-190307](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190307.zip) | b<>com, Orange | FS\_CMED – Robotic Aided Surgery for Wireless Operating Rooms | Revised to S1-190313 | Revision of S1-190053. | |
| Cont | | [S1-190313](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190313.zip) | b<>com, Orange | FS\_CMED – Robotic Aided Surgery for Wireless Operating Rooms | Revised to S1-190489 | *Revision of S1-190053.*  Revision of S1-190307. | |
| Cont | | [S1-190489](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190489.zip) | b<>com, Orange | FS\_CMED – Robotic Aided Surgery for Wireless Operating Rooms | Agreed | *Revision of S1-190053.*  *Revision of S1-190307.*  Revision of S1-190313.  No presentation | |
| Cont | | [S1-190070](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190070.zip) | b<>com | FS\_CMED – Proposal for section 6 on security | Revised to S1-190314 |  | |
| Cont | | [S1-190314](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190314.zip) | b<>com | FS\_CMED – Proposal for section 6 on security | Revised to S1-190447 | Revision of S1-190070. | |
| Cont | | [S1-190447](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190447.zip) | b<>com | FS\_CMED – Proposal for section 6 on security | Revised to S1-190490 | *Revision of S1-190070.*  Revision of S1-190314. | |
| Cont | | [S1-190490](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190490.zip) | b<>com | FS\_CMED – Proposal for section 6 on security | Agreed | *Revision of S1-190070.*  *Revision of S1-190314.*  Revision of S1-190447. | |
| FS\_CMED output + session information | | | | | | | |
| TR | | [S1-190186](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190186.zip) | Rapporteur (B-COM) | TS22.826v0.2.0 to include agreements at this meeting | Agreed | Mon-Wed- Fri  No presentation | |
| TR | | [S1-190187](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190187.zip) | Rapporteur (B-COM) | Cover page for presentation of TS22.826v1.0.0 | Withdrawn |  | |
| AGE | | [S1-190188](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190188.zip) | Session Chair | FS\_CMED drafting agenda | Revised to S1-190306 |  | |
| AGE | | [S1-190306](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190306.zip) | Session Chair | FS\_CMED drafting agenda | Agreed | Revision of S1-190188. | |
| REP | | [S1-190189](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190189.zip) | Session Chair | FS\_CMED drafting report | Agreed |  | |
| FS\_5G\_ATRAC: Study on Asset Tracking Use Cases [SP-170784] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TS22.836v0.1.0  Target completion date: SA#84 (06/2019)  Percentage completion: 15% | | | | | | | |
| Cont | | [S1-190102](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190102.zip) | Nokia, Nokia Shanghai Bell | FS\_5G\_ ATRAC cleanup of Container tracking use case | Revised to S1-190390 |  | |
| Cont | | [S1-190390](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190390.zip) | Nokia, Nokia Shanghai Bell | FS\_5G\_ ATRAC cleanup of Container tracking use case | Agreed | Revision of S1-190102. | |
| Cont | | [S1-190103](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190103.zip) | Nokia, Nokia Shanghai Bell | FS\_5G\_ ATRAC cleanup of Wagon tracking use case | Agreed |  | |
| Cont | | [S1-190114](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190114.zip) | Novamint | FS\_5G\_ATRAC – Corrections on Container and Wagon use cases | Revised to S1-190401 |  | |
| Cont | | [S1-190401](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190401.zip) | Novamint | FS\_5G\_ATRAC – Corrections on Container and Wagon use cases | Revised to S1-190391 | Revision of S1-190114. | |
| Cont | | [S1-190391](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190391.zip) | Novamint | FS\_5G\_ATRAC – Corrections on Container and Wagon use cases | Revised to S1-190485 | *Revision of S1-190114.*  Revision of S1-190401. | |
| Cont | | [S1-190485](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190485.zip) | Novamint | FS\_5G\_ATRAC – Corrections on Container and Wagon use cases | Agreed | *Revision of S1-190114.*  *Revision of S1-190401.*  Revision of S1-190391.  No presentation | |
| Cont | | [S1-190150](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190150.zip) | Novamint | FS\_5G\_ATRAC – Pallet Tracking Use case | Revised to S1-190392 |  | |
| Cont | | [S1-190392](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190392.zip) | Novamint | FS\_5G\_ATRAC – Pallet Tracking Use case | Agreed | Revision of S1-190150. | |
| Cont | | [S1-190151](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190151.zip) | Novamint | FS\_5G\_ATRAC – Luggage Tracking Use case | Withdrawn |  | |
| Cont | | [S1-190152](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190152.zip) | Novamint | FS\_5G\_ATRAC – Critical Operations Asset Tracking Use case | Withdrawn |  | |
| FS\_5G\_ATRAC output + session information | | | | | | | |
| TR | | [S1-190190](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190190.zip) | Rapporteur (NOVAMINT) | TS22.836v0.2.0 to include agreements at this meeting | Agreed | Mon-Wed-Fri  No presentation | |
| TR | | [S1-190191](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190191.zip) | Rapporteur (NOVAMINT) | Cover page for presentation of TS22.836v1.0.0 | Withdrawn |  | |
| AGE | | [S1-190192](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190192.zip) | Session Chair | FS\_5G\_ATRAC drafting agenda | Agreed |  | |
| REP | | [S1-190193](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190193.zip) | Session Chair | FS\_5G\_ATRAC drafting report | Agreed |  | |
| FS\_REFEC: Study on enhanced Relays for Energy eFficiency and Extensive Coverage [SP-170785] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TS22.866v0.1.0  Target completion date: SA#84 (06/2019)  Percentage completion: 20% | | | | | | | |
| Cont | | [S1-190094](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190094.zip) | KPN | Clean-up numbering | Revised to S1-190359 |  | |
| Cont | | [S1-190359](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190359.zip) | KPN | Clean-up numbering | Agreed | Revision of S1-190094. | |
| Cont | | [S1-190455](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190455.zip) | KPN | Results of drawing contest | Noted | Revision of S1-190094. | |
| Cont | | [S1-190073](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190073.zip) | InterDigital | Clarifying and removing editors notes in the TR: Industrial Area | Revised to S1-190360 |  | |
| Cont | | [S1-190360](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190360.zip) | InterDigital | Clarifying and removing editors notes in the TR: Industrial Area | Noted | Revision of S1-190073. | |
| Cont | | [S1-190107](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190107.zip) | Nokia, Nokia Shanghai Bell | FS\_REFEC cleanup of enhancing coverage in industrial environments | Revised to S1-190361 |  | |
| Cont | | [S1-190361](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190361.zip) | Nokia, Nokia Shanghai Bell | FS\_REFEC cleanup of enhancing coverage in industrial environments | Revised to S1-190454 | Revision of S1-190107. | |
| Cont | | [S1-190454](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190454.zip) | Nokia, Nokia Shanghai Bell | FS\_REFEC cleanup of enhancing coverage in industrial environments | Agreed | *Revision of S1-190107.*  Revision of S1-190361. | |
| Cont | | [S1-190131](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190131.zip) | KPN | Chain of Relay UEs | Revised to S1-190362 |  | |
| Cont | | [S1-190362](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190362.zip) | KPN | Chain of Relay UEs | Noted | Revision of S1-190131. | |
| Cont | | [S1-190137](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190137.zip) | Novamint | FS\_REFEC – Relay UEs Cluster Definition | Revised to S1-190372 |  | |
| Cont | | [S1-190372](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190372.zip) | Novamint | FS\_REFEC – Relay UEs Cluster Definition | Withdrawn | Revision of S1-190137. | |
| Cont | | [S1-190157](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190157.zip) | Siemens | FS\_REFEC - Clarification on network operator | Revised to S1-190363 |  | |
| Cont | | [S1-190363](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190363.zip) | Siemens | FS\_REFEC - Clarification on network operator | Revised to S1-190456 | Revision of S1-190157. | |
| Cont | | [S1-190456](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190456.zip) | Siemens | FS\_REFEC - Clarification on network operator | Agreed | *Revision of S1-190157.*  Revision of S1-190363.  No presentation | |
| Cont | | [S1-190009](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190009.zip) | OMESH Networks | Traffic Scenario of Elder and Child Services for SCC | Revised to S1-190365 |  | |
| Cont | | [S1-190365](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190365.zip) | OMESH Networks | Traffic Scenario of Elder and Child Services for SCC | Withdrawn | Revision of S1-190009. | |
| Cont | | [S1-190010](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190010.zip) | OMESH Networks | Traffic Scenario of Micro-environment Services for SCC | Revised to S1-190364 |  | |
| Cont | | [S1-190364](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190364.zip) | OMESH Networks | Traffic Scenario of Micro-environment Services for SCC | Revised to S1-190530 | Revision of S1-190010. | |
| Cont | | [S1-190530](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190530.zip) | OMESH Networks | Traffic Scenario of Micro-environment Services for SCC | Agreed | *Revision of S1-190010.*  Revision of S1-190364.  No presentation | |
| Cont | | [S1-190012](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190012.zip) | OMESH Networks | Traffic Scenario of Parking and Transportation Services for SCC | Revised to S1-190366 |  | |
| Cont | | [S1-190366](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190366.zip) | OMESH Networks | Traffic Scenario of Parking and Transportation Services for SCC | Withdrawn | Revision of S1-190012. | |
| Cont | | [S1-190087](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190087.zip) | Novamint | FS\_REFEC – Container Use case | Revised to S1-190249 |  | |
| Cont | | [S1-190249](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190249.zip) | Novamint | FS\_REFEC – Container Use case | Revised to S1-190371 | Revision of S1-190087. | |
| Cont | | [S1-190371](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190371.zip) | Novamint | FS\_REFEC – Container Use case | Revised to S1-190510 | *Revision of S1-190087.*  Revision of S1-190249. | |
| Cont | | [S1-190510](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190510.zip) | Novamint | FS\_REFEC – Container Use case | Agreed | *Revision of S1-190087.*  *Revision of S1-190249.*  Revision of S1-190371. | |
| Cont | | [S1-190088](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190088.zip) | Novamint | FS\_REFEC – Wagon Use case | Revised to S1-190400 |  | |
| Cont | | [S1-190400](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190400.zip) | Novamint | FS\_REFEC – Wagon Use case | Revised to S1-190373 | Revision of S1-190088. | |
| Cont | | [S1-190373](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190373.zip) | Novamint | FS\_REFEC – Wagon Use case | Revised to S1-190511 | *Revision of S1-190088.*  Revision of S1-190400. | |
| Cont | | [S1-190511](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190511.zip) | Novamint | FS\_REFEC – Wagon Use case | Agreed | *Revision of S1-190088.*  *Revision of S1-190400.*  Revision of S1-190373. | |
| Cont | | [S1-190095](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190095.zip) | KPN | Traffic Scenario - inHome | Revised to S1-190374 |  | |
| Cont | | [S1-190374](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190374.zip) | KPN | Traffic Scenario - inHome | Revised to S1-190457 | Revision of S1-190095. | |
| Cont | | [S1-190457](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190457.zip) | KPN | Traffic Scenario - inHome | Agreed | *Revision of S1-190095.*  Revision of S1-190374.  No presentation | |
| Cont | | [S1-190096](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190096.zip) | KPN | Traffic Scenario - SmartFactory | Revised to S1-190375 |  | |
| Cont | | [S1-190375](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190375.zip) | KPN | Traffic Scenario - SmartFactory | Revised to S1-190458 | Revision of S1-190096. | |
| Cont | | [S1-190458](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190458.zip) | KPN | Traffic Scenario - SmartFactory | Agreed | *Revision of S1-190096.*  Revision of S1-190375.  No presentation | |
| Cont | | [S1-190123](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190123.zip) | The Police of the Netherlands | Use case for enhancing indoor coverage for the fire brigade | Revised to S1-190376 |  | |
| Cont | | [S1-190376](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190376.zip) | The Police of the Netherlands | Use case for enhancing indoor coverage for the fire brigade | Revised to S1-190459 | Revision of S1-190123. | |
| Cont | | [S1-190459](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190459.zip) | The Police of the Netherlands | Use case for enhancing indoor coverage for the fire brigade | Agreed | *Revision of S1-190123.*  Revision of S1-190376. | |
| Cont | | [S1-190139](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190139.zip) | Philips International B.V. | Healthcare use cases for FS\_REFEC | Revised to S1-190377 |  | |
| Cont | | [S1-190377](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190377.zip) | Philips International B.V. | Healthcare use cases for FS\_REFEC | Revised to S1-190460 | Revision of S1-190139. | |
| Cont | | [S1-190460](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190460.zip) | Philips International B.V. | Healthcare use cases for FS\_REFEC | Agreed | *Revision of S1-190139.*  Revision of S1-190377. | |
| Cont | | [S1-190008](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190008.zip) | OMESH Technologies Co. Ltd. | Traffic Scenario of Elder and Child Services for SCC | Withdrawn |  | |
| Cont | | [S1-190011](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190011.zip) | OMESH Technologies Co. Ltd. | Traffic Scenario of Micro-environment Services for SCC | Withdrawn |  | |
| FS\_REFEC output + session information | | | | | | | |
| TR | | [S1-190194](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190194.zip) | Rapporteur (KPN) | TR22.866v0.2.0 to include agreements at this meeting | Agreed | Tue-Thu-Fri  No presentation | |
| TR | | [S1-190195](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190195.zip) | Rapporteur (KPN) | Cover page for presentation of TR22.866v1.0.0 | Withdrawn |  | |
| AGE | | [S1-190196](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190196.zip) | Session Chair | FS\_REFEC drafting agenda | Agreed |  | |
| REP | | [S1-190197](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190197.zip) | Session Chair | FS\_REFEC drafting report | Agreed |  | |
| FS\_EAV: Study on enhancement for UAVs [SP-170786] | | | | | | | |
| **Work status prior to this meeting:**  Latest version: TS22.829v0.1.0  Target completion date: SA#86 (12/2019)  Percentage completion: 20% | | | | | | | |
| Cont | | [S1-190027](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190027.zip) | ZTE Corporation, CATT?, China Unicom? | Supplement for Use case of UBS | Revised to S1-190257 |  | |
| Cont | | [S1-190257](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190257.zip) | ZTE Corporation, CATT?, China Unicom? | Supplement for Use case of UBS | Revised to S1-190473 | Revision of S1-190027. | |
| Cont | | [S1-190473](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190473.zip) | ZTE Corporation, CATT?, China Unicom? | Supplement for Use case of UBS | Agreed | *Revision of S1-190027.*  Revision of S1-190257. | |
| Cont | | [S1-190124](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190124.zip) | Intel | Resolving EN for Use case of C2 communication | Revised to S1-190258 |  | |
| Cont | | [S1-190258](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190258.zip) | Intel | Resolving EN for Use case of C2 communication | Revised to S1-190474 | Revision of S1-190124. | |
| Cont | | [S1-190474](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190474.zip) | Intel | Resolving EN for Use case of C2 communication | Agreed | *Revision of S1-190124.*  Revision of S1-190258. | |
| Cont | | [S1-190014](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190014.zip) | China Unicom | Discussion of Time Delay Calculation of Unmanned Aerial Vehicle | Revised to S1-190275 |  | |
| Cont | | [S1-190275](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190275.zip) | China Unicom | Discussion of Time Delay Calculation of Unmanned Aerial Vehicle | Agreed | Revision of S1-190014. | |
| Cont | | [S1-190016](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190016.zip) | China Unicom | Discussion of Computation of UAV Density and Range of Inspection | Revised to S1-190260 |  | |
| Cont | | [S1-190260](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190260.zip) | China Unicom | Discussion of Computation of UAV Density and Range of Inspection | Agreed | Revision of S1-190016.  No presentation | |
| Cont | | [S1-190019](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190019.zip) | LG Electronics | Isolated deployment of Radio Access through UAV | Revised to S1-190261 |  | |
| Cont | | [S1-190261](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190261.zip) | LG Electronics | Isolated deployment of Radio Access through UAV | Revised to S1-190276 | Revision of S1-190019. | |
| Cont | | [S1-190276](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190276.zip) | LG Electronics | Isolated deployment of Radio Access through UAV | Agreed | *Revision of S1-190019.*  Revision of S1-190261. | |
| Cont | | [S1-190020](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190020.zip) | LG Electronics | Radio Access through UAV | Revised to S1-190262 |  | |
| Cont | | [S1-190262](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190262.zip) | LG Electronics | Radio Access through UAV | Revised to S1-190475 | Revision of S1-190020. | |
| Cont | | [S1-190475](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190475.zip) | LG Electronics | Radio Access through UAV | Agreed | *Revision of S1-190020.*  Revision of S1-190262.  No presentation | |
| Cont | | [S1-190021](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190021.zip) | LG Electronics | Separation of UAV service area | Revised to S1-190263 |  | |
| Cont | | [S1-190263](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190263.zip) | LG Electronics | Separation of UAV service area | Revised to S1-190282 | Revision of S1-190021. | |
| Cont | | [S1-190282](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190282.zip) | LG Electronics | Separation of UAV service area | Revised to S1-190476 | *Revision of S1-190021.*  Revision of S1-190263. | |
| Cont | | [S1-190476](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190476.zip) | LG Electronics | Separation of UAV service area | Agreed | *Revision of S1-190021.*  *Revision of S1-190263.*  Revision of S1-190282. | |
| Cont | | [S1-190023](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190023.zip) | China Unicom, Huawei | Use case for simultaneously support data transmission for UAVs and eMBB users | Revised to S1-190259 |  | |
| Cont | | [S1-190259](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190259.zip) | China Unicom, Huawei | Use case for simultaneously support data transmission for UAVs and eMBB users | Revised to S1-190477 | Revision of S1-190023. | |
| Cont | | [S1-190477](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190477.zip) | China Unicom, Huawei | Use case for simultaneously support data transmission for UAVs and eMBB users | Revised to S1-190484 | *Revision of S1-190023.*  Revision of S1-190259. | |
| Cont | | [S1-190484](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190484.zip) | China Unicom, Huawei | Use case for simultaneously support data transmission for UAVs and eMBB users | Agreed | *Revision of S1-190023.*  *Revision of S1-190259.*  Revision of S1-190477.  No presentation | |
| Cont | | [S1-190024](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190024.zip) | China Unicom, Huawei | Use case for autonomous UAVs controlled by AI | Revised to S1-190264 |  | |
| Cont | | [S1-190264](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190264.zip) | China Unicom, Huawei | Use case for autonomous UAVs controlled by AI | Revised to S1-190478 | Revision of S1-190024. | |
| Cont | | [S1-190478](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190478.zip) | China Unicom, Huawei | Use case for autonomous UAVs controlled by AI | Agreed | *Revision of S1-190024.*  Revision of S1-190264. | |
| Cont | | [S1-190026](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190026.zip) | ZTE Corporation, China Unicom | Use Case of modification UAV controller | Revised to S1-190272 |  | |
| Cont | | [S1-190272](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190272.zip) | ZTE Corporation, China Unicom | Use Case of modification UAV controller | Revised to S1-190479 | Revision of S1-190026. | |
| Cont | | [S1-190479](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190479.zip) | ZTE Corporation, China Unicom | Use Case of modification UAV controller | Agreed | *Revision of S1-190026.*  Revision of S1-190272. | |
| Cont | | [S1-190059](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190059.zip) | China Unicom | Use case for user path optimization of UAVs | Revised to S1-190271 |  | |
| Cont | | [S1-190271](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190271.zip) | China Unicom | Use case for user path optimization of UAVs | Revised to S1-190480 | Revision of S1-190059. | |
| Cont | | [S1-190480](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190480.zip) | China Unicom | Use case for user path optimization of UAVs | Agreed | *Revision of S1-190059.*  Revision of S1-190271.  No presentation | |
| Cont | | [S1-190062](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190062.zip) | China Unicom | Use case for network resource adaptation to UAV needs | Revised to S1-190274 |  | |
| Cont | | [S1-190274](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190274.zip) | China Unicom | Use case for network resource adaptation to UAV needs | Revised to S1-190481 | Revision of S1-190062. | |
| Cont | | [S1-190481](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190481.zip) | China Unicom | Use case for network resource adaptation to UAV needs | Revised to S1-190517 | *Revision of S1-190062.*  Revision of S1-190274. | |
| Cont | | [S1-190517](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190517.zip) | China Unicom | Use case for network resource adaptation to UAV needs | Agreed | *Revision of S1-190062.*  *Revision of S1-190274.*  Revision of S1-190481. | |
| Cont | | [S1-190072](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190072.zip) | InterDigital | Use case for UAV control | Revised to S1-190270 |  | |
| Cont | | [S1-190270](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190270.zip) | InterDigital | Use case for UAV control | Revised to S1-190482 | Revision of S1-190072. | |
| Cont | | [S1-190482](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190482.zip) | InterDigital | Use case for UAV control | Agreed | *Revision of S1-190072.*  Revision of S1-190270. | |
| Cont | | [S1-190084](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190084.zip) | CATT，China Unicom | Swarm of UAVs in logistics | Revised to S1-190273 |  | |
| Cont | | [S1-190273](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190273.zip) | CATT，China Unicom | Swarm of UAVs in logistics | Revised to S1-190483 | Revision of S1-190084. | |
| Cont | | [S1-190483](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190483.zip) | CATT，China Unicom | Swarm of UAVs in logistics | Agreed | *Revision of S1-190084.*  Revision of S1-190273.  No presentation | |
| Cont | | [S1-190061](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190061.zip) | China Unicom | Use case for user path optimization of UAVs | Withdrawn |  | |
| FS\_EAV output + session information | | | | | | | |
| TR | | S1-190198 | Rapporteur (China Unicom) | TR22.829v0.2.0 to include agreements at this meeting | Agreed | No presentation | |
| TR | | [S1-190015](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190015.zip) | Rapporteur (China Unicom) | Cover page for presentation of TR22.829v1.0.0 | Agreed |  | |
| AGE | | [S1-190199](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190199.zip) | Session Chair | FS\_EAV drafting agenda | Agreed | No presentation | |
| REP | | [S1-190200](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190200.zip) | Session Chair | FS\_EAV drafting report | Agreed |  | |
| 1. **Other technical contributions** | | | | | | | |
| **Railway** | | | | | | | |
| CR | | [S1-190099](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190099.zip) | Ericsson | CR22.280v16.4.0: Support the FRMCS use case for Arbitration | Revised to S1-190214 | WI code TEI17 Rel-17 CR0103R- Cat B  Empty ZIP file | |
| CR | | [S1-190214](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190214.zip) | Ericsson | CR22.280v16.4.0: Support the FRMCS use case for Arbitration | Revised to S1-190420 | *WI code TEI17 Rel-17 CR0103R- Cat B*  Revision of S1-190099. | |
| CR | | [S1-190420](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190420.zip) | Ericsson | CR22.280v16.4.0: Support the FRMCS use case for Arbitration | Revised to S1-190431 | *WI code TEI17 Rel-17 CR0103R- Cat B*  *Revision of S1-190099.*  Revision of S1-190214. | |
| CR | | [S1-190431](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190431.zip) | Ericsson | CR22.280v16.4.0: Support the FRMCS use case for Arbitration | Revised to S1-190443 | *WI code TEI17 Rel-17 CR0103R- Cat B*  *Revision of S1-190099.*  *Revision of S1-190214.*  Revision of S1-190420. | |
| CR | | [S1-190443](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190443.zip) | Ericsson | CR22.280v16.4.0: Support the FRMCS use case for Arbitration | Withdrawn | *WI code TEI17 Rel-17 CR0103R- Cat B*  *Revision of S1-190099.*  *Revision of S1-190214.*  *Revision of S1-190420.*  Revision of S1-190431. | |
| CR | | [S1-190108](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190108.zip) | Ericsson | CR22.280v16.4.0: A user with multiple functional identities can use all MCX applications. | Withdrawn | WI code TEI17 Rel-17 CR0021R- Cat B | |
| CR | | [S1-190111](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190111.zip) | Ericsson | CR22.889v16.5.0: Gap analyzis of chapter 9.9 and 9.16 | Revised to S1-190425 | WI code TEI17 Rel-17 CRXXXXR- Cat C  WI Code FS\_FRMCS2 and Rel-16? | |
| CR | | [S1-190425](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190425.zip) | Ericsson | CR22.889v16.5.0: Gap analyzis of chapter 9.9 and 9.16 | Revised to S1-190432 | *WI code TEI17 Rel-17 CRXXXXR- Cat C*  *WI Code FS\_FRMCS2 and Rel-16?*  Revision of S1-190111. | |
| CR | | [S1-190432](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190432.zip) | Ericsson | CR22.889v16.5.0: Gap analyzis of chapter 9.9 and 9.16 | Agreed | *WI code TEI17 Rel-17 CRXXXXR- Cat C*  *WI Code FS\_FRMCS2 and Rel-16?*  *Revision of S1-190111.*  Revision of S1-190425. | |
| **Other** | | | | | | | |
| CR | | [S1-190140](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190140.zip) | Ericsson | CR22.173v16.1.0: Analytics results delivered in a modified calling name display. | Revised to S1-190428 | WI code TEI17 Rel-17 CR0123R- Cat F | |
| CR | | [S1-190428](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190428.zip) | Ericsson | CR22.173v16.1.0: Analytics results delivered in a modified calling name display. | Revised to S1-190450 | *WI code TEI17 Rel-17 CR0123R- Cat F*  Revision of S1-190140. | |
| CR | | [S1-190450](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190450.zip) | Ericsson | CR22.173v16.1.0: Analytics results delivered in a modified calling name display. | Agreed | *WI code TEI17 Rel-17 CR0123R- Cat F*  *Revision of S1-190140.*  Revision of S1-190428. | |
| WID | | [S1-190427](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190427.zip) | Ericsson | New WID on Analytics results delivered in a modified calling name display. | Revised to S1-190449 |  | |
| WID | | [S1-190449](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190449.zip) | Ericsson | New WID on Analytics results delivered in a modified calling name display. | Agreed | Revision of S1-190427. | |
| 1. **Work planning contributions** | | | | | | | |
| * 1. **Work Plan** | | | | | | | |
| WP | | [S1-190005](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190005.zip) | MCC | Workplan | Noted |  | |
| Cont | | [S1-190093](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190093.zip) | KPN (Rapporteur REFEC), Novamint (Rapporteur ATRAC), EBU&Senheisser (Rapporteur AVPROD), B-Com (Rapporteur CMED), OPPO (Rapporteur NCIS)? | A way forward for Rel17 | Moved to 2 |  | |
| * 1. **Work Item/Study Item status update** | | | | | | | |
| REP | | [S1-190201](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190201.zip) | SyncTechno | MARCOM – Status report |  |  | |
| REP | | [S1-190202](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190202.zip) | Vencore Labs | FS\_MPS2 – Status report |  |  | |
| REP | | [S1-190203](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190203.zip) | EBU | FS\_AVPROD – Status report |  |  | |
| REP | | [S1-190204](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190204.zip) | OPPO | FS\_NCIS – Status report |  | CHange | |
| REP | | [S1-190205](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190205.zip) | B-Com | FS\_CMED – Status report |  |  | |
| REP | | [S1-190206](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190206.zip) | Novamint | FS\_5G\_ATRAC – Status report |  |  | |
| REP | | [S1-190207](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190207.zip) | KPN | FS\_REFEC – Status report |  |  | |
| REP | | [S1-190208](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190208.zip) | China Unicom | FS\_EAV – Status report |  | Change | |
| REP | | [S1-190209](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190209.zip) | LG | V2XIMP – Status report |  |  | |
| REP | | [S1-190493](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190493.zip) | LG | FS\_MINT – Status report |  |  | |
| REP | | [S1-190496](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190496.zip) | Intel | FS\_MUSIM – Status report |  |  | |
| REP | | [S1-190498](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190498.zip) | Siemens | FS\_eCAV – Status report |  | 5% | |
| REP | | [S1-190514](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190514.zip) | Ericsson | VMOD\_DISPLAY – Status report |  |  | |
| * 1. **SA1 process improvements/updates** | | | | | | | |
| Cont | | [S1-190153](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\Docs\S1-190153.zip) | LG Electronics | Considerations for SA1 Process Improvement: Part 1 – Kicking off discussion | Revised to S1-190486 |  | |
| Cont | | [S1-190486](file:///C:\Users\norpahj\Documents\Local%203GPP%20copy\SA1%20Tallinn%202019\docs\S1-190486.zip) | LG Electronics | Considerations for SA1 Process Improvement: Part 1 – Kicking off discussion | Noted | Revision of S1-190153. | |
| * 1. **Other non-technical contributions** | | | | | | | |
| 1. **Next meetings** | | | | | | | |
| * 1. **Calendar** | | | | | | | |
| **2019 meetings:**  SA1#86 06-10 May 2019 Suzhou, China  SA1#87 19-23 August 2019 Sophia Antipolis, Europe  SA1#88 18-22 Nov 2019 Reno, US  **2020 meetings:**  SA1#89 10-14 Feb 2020 TBD, China  SA1#90 18-22 May 2020 TBD, Asia  SA1#91 24-28 August 2020 (TBC) TBD, Europe  SA1#92 16-20 Nov 2020 TBD, US | | | | | | | |
| 1. **Any other business** | | | | | | | |
| 1. **Close** | | | | | | | |
| Close by 16:00 on Friday 22 February 2019 | | | | | | | |