**Third Generation Partnership Project (3GPP™)**

**Meeting Report  
for  
TSG SA WG5  
meeting: 125AH**

**Sapporo, Japan, 25/06/2019 to 28/06/2019**

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## 1 Opening of the meeting

## 2 Approval of the agenda

**S5-194000 Agenda**

*Type: agenda For: (not specified)  
 Source: WG Chairman*

**Decision:** The document was **approved**.

## 3 IPR and legal declaration

**S5-194001 IPR and legal declaration**

*Type: other For: (not specified)  
 Source: WG Chairman*

**Decision:** The document was **noted**.

## 4 OAM&P

### 4.1 OAM&P Plenary

#### 4.1.1 Usage from 5G specs of pre-5G specs using the IRP concept (e.g. 28.622 and 28.623)

#### 4.1.2 Other OAM plenary contributions

**S5-194004 OAM time plan**

*Type: other For: (not specified)  
 Source: WG Vice Chair (Huawei)*

**Decision:** The document was **revised to S5-194390**.

**S5-194390 OAM time plan**

*Type: other For: -  
 Source: WG Vice Chair (Huawei)*

(Replaces S5-194004)

**Decision:** The document was **noted**.

**S5-194005 OAM Executive Report**

*Type: report For: (not specified)  
 Source: WG Vice Chair (ORANGE)*

**Decision:** The document was **noted**.

**S5-194006 OAM&P SWG action list**

*Type: other For: (not specified)  
 Source: WG Vice Chair (Huawei)*

**Decision:** The document was **revised to S5-194546**.

**S5-194546 OAM&P SWG action list**

*Type: other For: -  
 Source: WG Vice Chair (Huawei)*

(Replaces S5-194006)

**Decision:** The document was **noted**.

**S5-194007 Minutes of OAM&P Plenary**

*Type: report For: (not specified)  
 Source: WG Vice Chair (Huawei)*

**Decision:** The document was **noted**.

**S5-194027 Resubmitted LS from RAN1 to SA5 on LS on completion of CLI-RIM in RAN1**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R1-1903676*

**Decision:** The document was **postponed**.

**S5-194028 LS from RAN2 to SA2 and SA5 on IAB impact to CN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1905475*

**Decision:** The document was **postponed**.

**S5-194029 Reply LS from RAN2 to SA5 on the user plane latency measurement**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1908144*

**Decision:** The document was **postponed**.

**S5-194030 Reply LS from RAN3 to SA5 on L1 and L2 measurements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-192122*

**Decision:** The document was **postponed**.

**S5-194031 Reply LS from RAN3 to SA5 on PDCP end user throughput measurements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-192124*

**Decision:** The document was **postponed**.

**S5-194032 Reply LS from RAN3 ccSA5 on 5G\_URLLC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-192179*

**Decision:** The document was **postponed**.

**S5-194033 LS from RAN3 to SA5 on OAM requirements for RIM**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-193245*

**Decision:** The document was **postponed**.

**S5-194034 LS from SA2 ccSA5 on QoS Monitoring**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1904761*

**Decision:** The document was **postponed**.

**S5-194035 Reply LS from RAN3 ccSA5 on QoS Monitoring**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-193282*

**Decision:** The document was **postponed**.

**S5-194036 Resubmitted LS reply from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1902847*

**Decision:** The document was **postponed**.

**S5-194037 Response LS from SA2 ccSA5 on reporting all cell IDs in 5G**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1904819*

**Decision:** The document was **noted**.

**S5-194038 LS from SA2 to SA5 on User Data Congestion Analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1906797*

**Decision:** The document was **postponed**.

**S5-194040 Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG2*

**Decision:** The document was **postponed**.

**S5-194041 LS from ITU-T to SA5 on Energy Efficiency on 5G (reply to 3GPP TSG SA5-S5-191344)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG5*

**Decision:** The document was **postponed**.

**S5-194042 LS from ITU-T to SA5 on new Recommendation Q.5020 (formerly Q.NS-LCMP): Protocol requirements and procedures for network slice lifecycle management**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG11*

**Decision:** The document was **postponed**.

**S5-194252 Overview of the 5G specification structure**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-194393**.

**S5-194393 Overview of the 5G specification structure**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194252)

**Decision:** The document was **noted**.

**S5-194253 Discussion on the management terminologies**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-194394**.

**S5-194394 Discussion on the management terminologies**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194253)

**Decision:** The document was **endorsed**.

**S5-194254 Overview of the 5G management solution set**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-194395**.

**S5-194395 Overview of the 5G management solution set**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194254)

**Decision:** The document was **revised to S5-194522**.

**S5-194522 Overview of the 5G management solution set**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194395)

**Decision:** The document was **endorsed**.

**S5-194495 LS reply on PCF and NEF discovery for Edge Computing**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1904837*

**Decision:** The document was **postponed**.

**S5-194465 LS from GSMA on NG116 Publication and GST Co-operation with 3GPP SA5**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Decision:** The document was **postponed**.

### 4.2 OAM&P Maintenance and Rel-16 small Enhancements

**S5-194008 Minutes of OAM&P Maintenance and Rel-16 small Enhancements**

*Type: report For: (not specified)  
 Source: WG Vice Chair*

**Decision:** The document was **noted**.

**S5-194117 Rel-15 CR 28.532 Add missing stage 3 solutions for performance data file reporting service**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0032 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194398**.

**S5-194398 Rel-15 CR 28.532 Add missing stage 3 solutions for performance data file reporting service**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0032 rev 1 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194117)

**Decision:** The document was **merged**.

**S5-194118 Rel-16 CR 28.532 Add missing stage 3 solutions for performance data file reporting service**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0033 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194399**.

**S5-194399 Rel-16 CR 28.532 Add missing stage 3 solutions for performance data file reporting service**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0033 rev 1 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194118)

**Decision:** The document was **merged**.

**S5-194121 Rel-15 Correction on peformance data file reporting service components**

*Type: CR For: Approval  
 28.550 v15.1.0 CR-0011 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **agreed**.

**S5-194122 Rel-16 Correction on peformance data file reporting service components**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0012 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **agreed**.

**S5-194124 Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service**

*Type: CR For: Approval  
 28.550 v15.1.0 CR-0014 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194400**.

**S5-194400 Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service**

*Type: CR For: Approval  
 28.550 v15.1.0 CR-0014 rev 1 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194124)

**Decision:** The document was **revised to S5-194534**.

**S5-194534 Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service**

*Type: CR For: Approval  
 28.550 v15.1.0 CR-0014 rev 2 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194400)

**Decision:** The document was **agreed**.

**S5-194128 Rel-15 CR TS 28.541 Correct description for NR deployment scenario**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0106 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194404**.

**S5-194404 Rel-15 CR TS 28.541 Correct description for NR deployment scenario**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0106 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194128)

**Decision:** The document was **agreed**.

**S5-194129 Rel-16 CR TS 28.541 Correct description for NR deployment scenario**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0107 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194405**.

**S5-194405 Rel-16 CR TS 28.541 Correct description for NR deployment scenario**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0107 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194129)

**Decision:** The document was **agreed**.

**S5-194130 Rel-15 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0108 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194403**.

**S5-194403 Rel-15 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0108 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194130)

**Decision:** The document was **agreed**.

**S5-194131 Rel-16 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0109 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194406**.

**S5-194406 Rel-16 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0109 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194131)

**Decision:** The document was **agreed**.

**S5-194132 Rel-15 CR TS 28.532 Add RESTful HTTP-based solution set for file-based performance assurance MnS**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0035 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **merged**.

**S5-194133 Rel-16 CR TS 28.532 Add RESTful HTTP-based solution set for file-based performance assurance MnS**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0036 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **merged**.

**S5-194143 S5-Sapporo CR Rel-15 28541 v1530 Correct style for enumeration literals**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0110 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-194407**.

**S5-194407 S5-Sapporo CR Rel-15 28541 v1530 Correct style for enumeration literals**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0110 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194143)

**Decision:** The document was **agreed**.

**S5-194144 Rel-15 CR TS 28.531 Update the incorrect reference**

*Type: CR For: Approval  
 28.531 v15.3.0 CR-0021 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194145 Rel-16 CR TS 28.531 Update the incorrect reference**

*Type: CR For: Approval  
 28.531 v16.2.0 CR-0022 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194146 Rel-11 CR TS 32.502 Update incorrect information**

*Type: CR For: Approval  
 32.502 v11.0.0 CR-0007 Cat: F (Rel-11)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194147 Rel-12 CR TS 32.502 Update incorrect information**

*Type: CR For: Approval  
 32.502 v12.0.0 CR-0008 Cat: A (Rel-12)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194148 Rel-13 CR TS 32.502 Update incorrect information**

*Type: CR For: Approval  
 32.502 v13.0.0 CR-0009 Cat: A (Rel-13)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194149 Rel-14 CR TS 32.502 Update incorrect information**

*Type: CR For: Approval  
 32.502 v14.0.0 CR-0010 Cat: A (Rel-14)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194150 Rel-15 CR TS 32.502 Update incorrect information**

*Type: CR For: Approval  
 32.502 v15.0.0 CR-0011 Cat: A (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194151 Rel-15 CR TS 28.552 Correct the definition of Average delay DL air-interface measurement**

*Type: CR For: Agreement  
 28.552 v15.3.0 CR-0091 Cat: F (Rel-15)  
  
 Source: ZTE, China Mobile*

**Decision:** The document was **agreed**.

**S5-194152 Rel-16 CR TS 28.552 Correct the definition of Average delay DL air-interface measurement**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0092 Cat: A (Rel-16)  
  
 Source: ZTE, China Mobile*

**Decision:** The document was **agreed**.

**S5-194153 Rel-15 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0111 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **not pursued**.

**S5-194154 Rel-16 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0112 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **not pursued**.

**S5-194409 Rel-16 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0112 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**S5-194155 Rel-13 CR TS 32.450 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.450 v13.0.0 CR-0019 Cat: F (Rel-13)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194156 Rel-14 CR TS 32.450 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.450 v14.0.0 CR-0020 Cat: A (Rel-14)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194157 Rel-15 CR TS 32.450 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.450 v15.1.0 CR-0021 Cat: A (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194158 Rel-15 CR TS 28.552 Correction on kbits abbreviation**

*Type: CR For: Approval  
 28.552 v15.3.0 CR-0093 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194410**.

**S5-194410 Rel-15 CR TS 28.552 Correction on kbits abbreviation**

*Type: CR For: Approval  
 28.552 v15.3.0 CR-0093 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194158)

**Decision:** The document was **agreed**.

**S5-194159 Rel-16 CR TS 28.552 Correction on kbits abbreviation**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0094 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194411**.

**S5-194411 Rel-16 CR TS 28.552 Correction on kbits abbreviation**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0094 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194159)

**Decision:** The document was **agreed**.

**S5-194160 Rel-15 CR TS 28.554 Correction on kbits abbreviation**

*Type: CR For: Approval  
 28.554 v15.3.0 CR-0019 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194161 Rel-16 CR TS 28.554 Correction on kbits abbreviation**

*Type: CR For: Approval  
 28.554 v16.1.0 CR-0020 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194162 Rel-15 CR 28622 V1520 Clarify optional configurable PM**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0035 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-194412**.

**S5-194412 Rel-15 CR 28622 V1520 Clarify optional configurable PM**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0035 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194162)

**Decision:** The document was **agreed**.

**S5-194163 Rel-15 CR 28623 v1520 Add Generic NRM IRP solution sets**

*Type: CR For: Approval  
 28.623 v15.2.0 CR-0022 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-194391**.

**S5-194391 Rel-15 CR 28623 v1520 Add Generic NRM IRP solution sets**

*Type: CR For: Approval  
 28.623 v15.2.0 CR-0022 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194163)

**Decision:** The document was **agreed**.

**S5-194173 CR Rel-8 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v8.1.0 CR-0072 Cat: F (Rel-8)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194508**.

**S5-194508 CR Rel-8 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v8.1.0 CR-0072 rev 1 Cat: F (Rel-8)  
  
 Source: Huawei*

(Replaces S5-194173)

**Decision:** The document was **not pursued**.

**S5-194174 CR Rel-9 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v9.5.0 CR-0073 Cat: A (Rel-9)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194509**.

**S5-194509 CR Rel-9 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v9.5.0 CR-0073 rev 1 Cat: A (Rel-9)  
  
 Source: Huawei*

(Replaces S5-194174)

**Decision:** The document was **not pursued**.

**S5-194175 CR Rel-10 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v10.5.0 CR-0074 Cat: A (Rel-10)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194510**.

**S5-194510 CR Rel-10 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v10.5.0 CR-0074 rev 1 Cat: A (Rel-10)  
  
 Source: Huawei*

(Replaces S5-194175)

**Decision:** The document was **not pursued**.

**S5-194176 CR Rel-11 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v11.4.0 CR-0075 Cat: A (Rel-11)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194511**.

**S5-194511 CR Rel-11 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v11.4.0 CR-0075 rev 1 Cat: A (Rel-11)  
  
 Source: Huawei*

(Replaces S5-194176)

**Decision:** The document was **not pursued**.

**S5-194177 CR Rel-12 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v12.0.0 CR-0076 Cat: A (Rel-12)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194512**.

**S5-194512 CR Rel-12 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v12.0.0 CR-0076 rev 1 Cat: A (Rel-12)  
  
 Source: Huawei*

(Replaces S5-194177)

**Decision:** The document was **not pursued**.

**S5-194178 CR Rel-13 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v13.0.0 CR-0077 Cat: A (Rel-13)  
  
 Source: Huawei*

**Decision:** The document was **not pursued**.

**S5-194513 CR Rel-13 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v13.0.0 CR-0077 rev 1 Cat: A (Rel-13)  
  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**S5-194179 CR Rel-14 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v14.1.0 CR-0078 Cat: A (Rel-14)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194514**.

**S5-194514 CR Rel-14 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v14.1.0 CR-0078 rev 1 Cat: A (Rel-14)  
  
 Source: Huawei*

(Replaces S5-194179)

**Decision:** The document was **not pursued**.

**S5-194180 CR Rel-15 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v15.2.0 CR-0079 Cat: A (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194515**.

**S5-194515 CR Rel-15 32.426 Correct description of measurement KPI of paging**

*Type: CR For: Agreement  
 32.426 v15.2.0 CR-0079 rev 1 Cat: A (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194180)

**Decision:** The document was **not pursued**.

**S5-194190 Rel-15 CR 28541 v1530 YANG solution**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0113 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-194392**.

**S5-194392 Rel-15 CR 28541 v1530 YANG solution**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0113 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194190)

**Decision:** The document was **revised to S5-194523**.

**S5-194523 Rel-15 CR 28541 v1530 YANG solution**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0113 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194392)

**Decision:** The document was **agreed**.

**S5-194193 Global reorganization plus correcting operation names and wrong references**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0037 Cat: F (Rel-15)  
  
 Source: AT&T, Huawei, Orange*

**Decision:** The document was **revised to S5-194413**.

**S5-194413 Global reorganization plus correcting operation names and wrong references**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0037 rev 1 Cat: F (Rel-15)  
  
 Source: AT&T, Huawei, Orange*

(Replaces S5-194193)

**Decision:** The document was **agreed**.

**S5-194194 Global reorganization plus correcting operation names and wrong references**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0038 Cat: A (Rel-16)  
  
 Source: AT&T, Huawei, Orange*

**Decision:** The document was **revised to S5-194414**.

**S5-194414 Global reorganization plus correcting operation names and wrong references**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0038 rev 1 Cat: A (Rel-16)  
  
 Source: AT&T, Huawei, Orange*

(Replaces S5-194194)

**Decision:** The document was **agreed**.

**S5-194209 Rel-15 CR TS 28.532 Align the PM file format by copying the file format from TS 28.550**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0039 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **merged**.

**S5-194210 Rel-16 CR TS 28.532 Align the PM file format by copying the file format from TS 28.550**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0040 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **merged**.

**S5-194211 Rel-15 CR TS 28.550 Remove the PM file format**

*Type: CR For: Approval  
 28.550 v15.1.0 CR-0015 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194415**.

**S5-194415 Rel-15 CR TS 28.550 Remove the PM file format**

*Type: CR For: Approval  
 28.550 v15.1.0 CR-0015 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194211)

**Decision:** The document was **agreed**.

**S5-194212 Rel-16 CR TS 28.550 Remove the PM file format**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0016 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194416**.

**S5-194416 Rel-16 CR TS 28.550 Remove the PM file format**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0016 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194212)

**Decision:** The document was **agreed**.

**S5-194216 Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0051 rev 5 Cat: C (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT*

(Replaces S5-193401)

**Decision:** The document was **revised to S5-194473**.

**S5-194473 Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0051 rev 6 Cat: C (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT*

(Replaces S5-194216)

**Decision:** The document was **not pursued**.

**S5-194225 Rel-16 CR 28.532 Add management service of Operation getAlarmCount**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0041 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **merged**.

**S5-194233 Rel-15 CR 28.532 Add management service of Operation getAlarmCount**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0042 Cat: A (Rel-15)  
  
 Source: China Mobile, ZTE*

**Decision:** The document was **merged**.

**S5-194235 Rel-16 CR 28.532 Remove Notification notifyPotentialFaultyAlarmList**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0043 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **not pursued**.

**S5-194237 Rel-15 CR 28.532 Remove Notification notifyPotentialFaultyAlarmList**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0044 Cat: F (Rel-15)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **not pursued**.

**S5-194238 Rel-15 CR TS 28.550 Update performance assurance service component for NRM based measurement control MnS**

*Type: CR For: Agreement  
 28.550 v15.1.0 CR-0020 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194463**.

**S5-194463 Rel-15 CR TS 28.550 Update performance assurance service component for NRM based measurement control MnS**

*Type: CR For: Agreement  
 28.550 v15.1.0 CR-0020 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194238)

**Decision:** The document was **not pursued**.

**S5-194239 Rel-16 CR TS 28.551 Update performance assurance service component for NRM based measurement control MnS**

*Type: CR For: Agreement  
 28.550 v16.1.0 CR-0021 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194464**.

**S5-194464 Rel-16 CR TS 28.551 Update performance assurance service component for NRM based measurement control MnS**

*Type: CR For: Agreement  
 28.550 v16.1.0 CR-0021 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194239)

**Decision:** The document was **not pursued**.

**S5-194241 Rel-16 CR 28.532 Remove Operation setComment**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0045 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **not pursued**.

**S5-194242 Rel-15 CR 28.532 Remove Operation setComment**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0046 Cat: A (Rel-15)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **not pursued**.

**S5-194243 Rel-16 CR 28.532 Remove Notification notifyComments**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0047 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **not pursued**.

**S5-194244 Rel-15 CR 28.532 Remove Notification notifyComments**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0048 Cat: F (Rel-15)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **not pursued**.

**S5-194256 Discussion of identifiers**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194257 Rel-15 CR TS 28.531 Add the identifier description**

*Type: CR For: Agreement  
 28.531 v15.3.0 CR-0023 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194462**.

**S5-194462 Rel-15 CR TS 28.531 Add the identifier description**

*Type: CR For: Agreement  
 28.531 v15.3.0 CR-0023 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-194257)

**Decision:** The document was **agreed**.

**S5-194263 Rel 15 Fix NR NRM to add missed ID info**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0115 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not pursued**.

**S5-194264 Rel 16 Fix NR NRM to add missed ID info**

*Type: CR For: Agreement  
 28.541 v16.1.0 CR-0116 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not pursued**.

**S5-194265 generate JSON definition for generic NRM based on new style guideline**

*Type: CR For: Agreement  
 28.623 v15.2.0 CR-0023 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194467**.

**S5-194467 generate JSON definition for generic NRM based on new style guideline**

*Type: CR For: Agreement  
 28.623 v15.2.0 CR-0023 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194265)

**Decision:** The document was **agreed**.

**S5-194266 generate JSON definition for NR NRM based on new style guideline**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0117 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194468**.

**S5-194468 generate JSON definition for NR NRM based on new style guideline**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0117 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194266)

**Decision:** The document was **agreed**.

**S5-194267 generate JSON definition for Network Slice NRM based on new style guideline**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0118 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194469**.

**S5-194469 generate JSON definition for Network Slice NRM based on new style guideline**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0118 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194267)

**Decision:** The document was **agreed**.

**S5-194268 generate JSON definition for 5GC NRM based on new style guideline**

*Type: CR For: Agreement  
 28.541 v15.3.0 CR-0119 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**S5-194281 Rel-15 CR 28.541 Clarification of sNSSAIList attribute**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0120 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-194477**.

**S5-194477 Rel-15 CR 28.541 Clarification of sNSSAIList attribute**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0120 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

(Replaces S5-194281)

**Decision:** The document was **agreed**.

**S5-194282 Rel-16 CR 28.541 Clarification of sNSSAIList attribute**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0121 Cat: A (Rel-16)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-194478**.

**S5-194478 Rel-16 CR 28.541 Clarification of sNSSAIList attribute**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0121 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson Limited*

(Replaces S5-194282)

**Decision:** The document was **agreed**.

**S5-194283 Rel-15 CR 28.541 Remove pLMNId from GNBDUFunction**

*Type: CR For: Approval  
 28.541 v15.3.0 CR-0122 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

**Decision:** The document was **agreed**.

**S5-194284 Rel-16 CR 28.541 Remove pLMNId from GNBDUFunction**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0123 Cat: A (Rel-16)  
  
 Source: Ericsson Limited*

**Decision:** The document was **agreed**.

**S5-194291 Report of the 3-days meeting on JSON/YANG solution june 2019**

*Type: report For: Information  
 28.541 v..  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-194436**.

**S5-194436 Report of the 3-days meeting on JSON/YANG solution june 2019**

*Type: report For: Information  
 28.541 v..  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194291)

**Decision:** The document was **noted**.

**S5-194408 Rel-15 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3**

*Type: other For: Agreement  
 28.541 v..  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

### 4.3 Rel-16 Operations, Administration, Maintenance and Provisioning (OAM&P)

#### 4.3.1 Restructuring of TS 28.532

#### 4.3.2 Enhancement of performance assurance - Stage 2 and 3 definitions (and decide on the placement of MnSs Stage 3 (28.532 vs. 28.550))

**S5-194010 Minutes of Enhancement of performance assurance - Stage 2 and 3 definitions (and decide on the placement of MnSs Stage 3 (28.532 vs. 28.550))**

*Type: report For: (not specified)  
 Source: Rapporteur (China Mobile)*

**Decision:** The document was **noted**.

**S5-194086 pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF**

*Type: CR For: (not specified)  
 28.554 v16.1.0 CR-0017 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194396**.

**S5-194396 pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF**

*Type: CR For: -  
 28.554 v16.1.0 CR-0017 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-194086)

**Decision:** The document was **revised to S5-194419**.

**S5-194419 pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF**

*Type: CR For: -  
 28.554 v16.1.0 CR-0017 rev 2 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-194396)

**Decision:** The document was **revised to S5-194537**.

**S5-194537 pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF**

*Type: CR For: -  
 28.554 v16.1.0 CR-0017 rev 3 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-194419)

**Decision:** The document was **agreed**.

**S5-194087 pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement**

*Type: CR For: (not specified)  
 28.554 v16.1.0 CR-0018 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194397**.

**S5-194397 pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement**

*Type: CR For: -  
 28.554 v16.1.0 CR-0018 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-194087)

**Decision:** The document was **revised to S5-194420**.

**S5-194420 pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement**

*Type: CR For: -  
 28.554 v16.1.0 CR-0018 rev 2 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-194397)

**Decision:** The document was **revised to S5-194538**.

**S5-194538 pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement**

*Type: CR For: -  
 28.554 v16.1.0 CR-0018 rev 3 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-194420)

**Decision:** The document was **agreed**.

**S5-194088 pCR 28.552 Add a descripment of Number of successful RRC Connections measurement**

*Type: CR For: (not specified)  
 28.552 v16.2.0 CR-0087 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **withdrawn**.

**S5-194116 Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0009 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194417**.

**S5-194417 Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0009 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194116)

**Decision:** The document was **revised to S5-194535**.

**S5-194535 Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0009 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194417)

**Decision:** The document was **agreed**.

**S5-194119 Rel-16 CR 28.532 Add missing stage 3 solutions for performance threshold monitoring service**

*Type: CR For: Approval  
 28.532 v16.0.0 CR-0034 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **merged**.

**S5-194120 Correction on StreamInfoList**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **agreed**.

**S5-194123 Rel-16 Correction on peformance data streaming service components**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **agreed**.

**S5-194125 Rel-16 CR 28.552 Add measurements related to application triggering**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0088 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **agreed**.

**S5-194126 Rel-16 CR 28.552 Add measurements related SMS over NAS**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0089 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194421**.

**S5-194421 Rel-16 CR 28.552 Add measurements related SMS over NAS**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0089 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194126)

**Decision:** The document was **agreed**.

**S5-194127 Rel-16 CR 28.552 Correction of clause titles**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0090 Cat: F (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **agreed**.

**S5-194169 CR Rel-16 28.552 Add measurement of SMF for N4 interface**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0095 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194422**.

**S5-194422 CR Rel-16 28.552 Add measurement of SMF for N4 interface**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0095 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194169)

**Decision:** The document was **revised to S5-194536**.

**S5-194536 CR Rel-16 28.552 Add measurement of SMF for N4 interface**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0095 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194422)

**Decision:** The document was **revised to S5-194545**.

**S5-194545 CR Rel-16 28.552 Add measurement of SMF for N4 interface**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0095 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194536)

**Decision:** The document was **agreed**.

**S5-194170 CR Rel-16 28.552 Add measurement of UPF for N4 interface**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0096 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **agreed**.

**S5-194171 CR Rel-16 28.552 Add measurement of paging**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0097 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194423**.

**S5-194423 CR Rel-16 28.552 Add measurement of paging**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0097 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194171)

**Decision:** The document was **agreed**.

**S5-194172 CR Rel-16 28.552 Update performance measurements for UDM**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0098 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194424**.

**S5-194424 CR Rel-16 28.552 Update performance measurements for UDM**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0098 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194172)

**Decision:** The document was **agreed**.

**S5-194213 Add use case and definitions of average round-trip user plane packet delay measurement between UE and UPF**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0017 Cat: B (Rel-16)  
  
 Source: ETRI*

**Decision:** The document was **not pursued**.

**S5-194214 Add use case and definitions of user plane packet delay measurement between UE and UPF**

*Type: CR For: Approval  
 28.550 v16.1.0 CR-0018 Cat: B (Rel-16)  
  
 Source: ETRI*

**Abstract:**

In order to provide performance assurance of 5G services, it is important to measure end-to-end performance. Performance measurement at gNB level may not satisfy this requirement, Packet loss, delay, or latency can happen between gBN and UPF and their me

**Decision:** The document was **not pursued**.

**S5-194236 CR Rel-16 TS 28.550 Procedure of NSI performance assurance**

*Type: CR For: Agreement  
 28.550 v16.1.0 CR-0019 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **not pursued**.

**S5-194418 CR Rel-16 TS 28.550 Procedure of NSI performance assurance**

*Type: CR For: Agreement  
 28.550 v16.1.0 CR-0019 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **withdrawn**.

**S5-194246 Rel-16 CR TS 28.552 Restructure QoS flow related measurements**

*Type: CR For: Approval  
 28.552 v16.2.0 CR-0099 Cat: D (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **not pursued**.

**S5-194255 Discussion on KPI e2e latency of 5G network**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194260 TD Broadcasting cell quality issue**

*Type: discussion For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194480**.

**S5-194480 TD Broadcasting cell quality issue**

*Type: discussion For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194260)

**Decision:** The document was **endorsed**.

**S5-194261 Add measurement related to QoS of cell**

*Type: CR For: Agreement  
 32.425 v16.3.0 CR-0197 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194481**.

**S5-194481 Add measurement related to QoS of cell**

*Type: CR For: Agreement  
 32.425 v16.3.0 CR-0197 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194261)

**Decision:** The document was **agreed**.

**S5-194262 Add measurement related to QoS of cell**

*Type: CR For: Agreement  
 28.552 v16.2.0 CR-0100 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not pursued**.

**S5-194276 Rel-16 CR 28.554 Correction of Flow Retainability KPI**

*Type: CR For: Approval  
 28.554 v16.1.0 CR-0021 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-194425**.

**S5-194425 Rel-16 CR 28.554 Correction of Flow Retainability KPI**

*Type: CR For: Approval  
 28.554 v16.1.0 CR-0021 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

(Replaces S5-194276)

**Decision:** The document was **agreed**.

**S5-194278 Rel-16 CR 28.554 Correction of DRB Accessibility KPI**

*Type: CR For: Approval  
 28.554 v16.1.0 CR-0022 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-194426**.

**S5-194426 Rel-16 CR 28.554 Correction of DRB Accessibility KPI**

*Type: CR For: Approval  
 28.554 v16.1.0 CR-0022 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

(Replaces S5-194278)

**Decision:** The document was **agreed**.

**S5-194280 Discussion paper around Bursty and Continious flows**

*Type: discussion For: Approval  
 Source: Ericsson Limited*

**Decision:** The document was **noted**.

**S5-194402 Tdoc discussion sequence**

*Type: other For: Information  
 Source: Rapporteur (Intel)*

**Decision:** The document was **noted**.

#### 4.3.3 Management of QoE measurement collection

**S5-194011 Minutes of Management of QoE measurement collection**

*Type: report For: (not specified)  
 Source: Rapporteur (Ericsson)*

**Decision:** The document was **noted**.

**S5-194292 pCR R16 28.405-060 Editor's clean up**

*Type: pCR For: (not specified)  
 28.405 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194294 pCR R16 28.404-100 Remove the Symbols clause**

*Type: pCR For: (not specified)  
 28.404 v1.0.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194295 pCR R16 28.404-100 Actor roles**

*Type: pCR For: (not specified)  
 28.404 v1.0.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194297 pCR R16 28.404-100 Telecommunication resources**

*Type: pCR For: (not specified)  
 28.404 v1.0.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194298 pCR R16 28.405-060 Correction of Management based activation in UTRAN**

*Type: pCR For: (not specified)  
 28.405 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-194427**.

**S5-194427 pCR R16 28.405-060 Correction of Management based activation in UTRAN**

*Type: pCR For: -  
 28.405 v0.6.0  
 Source: Ericsson*

(Replaces S5-194298)

**Decision:** The document was **approved**.

**S5-194299 pCR R16 28.405-060 Deactivation of measurement job in UTRAN**

*Type: pCR For: (not specified)  
 28.405 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194300 pCR R16 28.405-060 Handling of handover in Signalling based activation in UTRAN**

*Type: pCR For: (not specified)  
 28.405 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194302 pCR R16 28.405-060 Correction of Management based activation in LTE**

*Type: pCR For: (not specified)  
 28.405 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194524 Draft TS 28.404**

*Type: draft TS For: Approval  
 28.404 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194525 Draft TS 28.405**

*Type: draft TS For: Approval  
 28.405 v0.7.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

#### 4.3.4 Network policy management for mobile networks based on NFV scenarios

**S5-194012 Minutes of Network policy management for mobile networks based on NFV scenarios**

*Type: report For: (not specified)  
 Source: Rapporteur (China Mobile)*

**Decision:** The document was **noted**.

**S5-194076 Add Policy management procedures**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194428**.

**S5-194428 Add Policy management procedures**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194076)

**Decision:** The document was **approved**.

**S5-194077 Add description and interface definition of creating a policy**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194429**.

**S5-194429 Add description and interface definition of creating a policy**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194077)

**Decision:** The document was **approved**.

**S5-194078 Add description and interface definition of deleting a policy**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194430**.

**S5-194430 Add description and interface definition of deleting a policy**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194078)

**Decision:** The document was **approved**.

**S5-194079 Add description and interface definition of updating a policy**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194431**.

**S5-194431 Add description and interface definition of updating a policy**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194079)

**Decision:** The document was **approved**.

**S5-194080 Add description and interface definition of querying a policy**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194432**.

**S5-194432 Add description and interface definition of querying a policy**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194080)

**Decision:** The document was **approved**.

**S5-194081 Add description and interface definition of activating a policy**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194433**.

**S5-194433 Add description and interface definition of activating a policy**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194081)

**Decision:** The document was **approved**.

**S5-194082 Add description and interface definition of deactivating a policy**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194434**.

**S5-194434 Add description and interface definition of deactivating a policy**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194082)

**Decision:** The document was **approved**.

**S5-194083 Add interface definition of reporting policy conflicts**

*Type: pCR For: (not specified)  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-194435**.

**S5-194435 Add interface definition of reporting policy conflicts**

*Type: pCR For: -  
 28.311 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-194083)

**Decision:** The document was **approved**.

**S5-194084 Exception Sheet for policy management**

*Type: WI exception request For: (not specified)  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **noted**.

**S5-194526 Draft TS 28.311**

*Type: draft TS For: Approval  
 28.311 v0.3.0  
 Source: China Mobile*

**Decision:** The document was **approved**.

#### 4.3.5 Methodology for 5G management specifications

**S5-194013 Minutes of Methodology for 5G management specifications**

*Type: report For: (not specified)  
 Source: Rapporteur (Ericsson)*

**Decision:** The document was **noted**.

**S5-194192 Rel-16 pCR 32.160 v120 YANG style guide**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-194318**.

**S5-194217 Discussion paper on description of inherited attributes**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-194439**.

**S5-194439 Discussion paper on description of inherited attributes**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194217)

**Decision:** The document was **revised to S5-194539**.

**S5-194539 Discussion paper on description of inherited attributes**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194439)

**Decision:** The document was **endorsed**.

**S5-194272 JSON schema mapping rules**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Nokia Germany*

**Decision:** The document was **noted**.

**S5-194438 JSON schema mapping rules**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Nokia Germany*

**Decision:** The document was **withdrawn**.

**S5-194273 Basic structure of the JSON schema for the Generic NRM and 5G NRM**

*Type: discussion For: Endorsement  
 Source: Nokia Germany*

**Decision:** The document was **endorsed**.

**S5-194277 Usage of JSON schema by the ProvMnS**

*Type: discussion For: Presentation  
 Source: Nokia Germany*

**Decision:** The document was **noted**.

**S5-194303 S5-194xxx Presentation of Specification to TSG TS 32.160**

*Type: TS or TR cover For: Information  
 32.160 v1.2.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **noted**.

**S5-194304 pCR 32.160 Correction of formatting of example tables**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **approved**.

**S5-194305 Discussion paper on Editors note W4.3.a.2**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson India Private Limited*

**Decision:** The document was **noted**.

**S5-194311 CR 32.156 Update attribute properties table**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0034 Cat: B (Rel-16)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **not pursued**.

**S5-194440 CR 32.156 Update attribute properties table**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0034 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **withdrawn**.

**S5-194313 Sequence proposal for Methodology for 5G management specifications**

*Type: other For: Information  
 Source: Ericsson India Private Limited*

**Decision:** The document was **noted**.

**S5-194318 Rel-16 pCR 32.160 v120 YANG style guide**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194192)

**Decision:** The document was **revised to S5-194437**.

**S5-194437 Rel-16 pCR 32.160 v120 YANG style guide**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-194318)

**Decision:** The document was **approved**.

**S5-194527 Draft TS 32.160**

*Type: draft TS For: Approval  
 32.160 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

#### 4.3.6 Intent driven management service for mobile networks

**S5-194014 Minutes of Intent driven management service for mobile networks**

*Type: report For: (not specified)  
 Source: Rapporteur (Huawei)*

**Decision:** The document was **noted**.

**S5-194135 pCR 28.812 Add concept of intent driven management for area network**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194441**.

**S5-194441 pCR 28.812 Add concept of intent driven management for area network**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

(Replaces S5-194135)

**Decision:** The document was **revised to S5-194541**.

**S5-194541 pCR 28.812 Add concept of intent driven management for area network**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

(Replaces S5-194441)

**Decision:** The document was **approved**.

**S5-194136 pCR 28.812 Update clause 4.1.1 Introduction**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194442**.

**S5-194442 pCR 28.812 Update clause 4.1.1 Introduction**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

(Replaces S5-194136)

**Decision:** The document was **noted**.

**S5-194137 pCR 28.812 Add solution for Cell rehoming**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194443 pCR 28.812 Add solution for Cell rehoming**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**S5-194138 pCR 28.812 Add solution for area load balance**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194444**.

**S5-194444 pCR 28.812 Add solution for area load balance**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

(Replaces S5-194138)

**Decision:** The document was **approved**.

**S5-194139 pCR 28.812 Update lifecycle management of intent**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194445**.

**S5-194445 pCR 28.812 Update lifecycle management of intent**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

(Replaces S5-194139)

**Decision:** The document was **approved**.

**S5-194140 pCR 28.812 Update concept of intent translation**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194446**.

**S5-194446 pCR 28.812 Update concept of intent translation**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

(Replaces S5-194140)

**Decision:** The document was **approved**.

**S5-194141 pCR 28.812 Add solution for intent driven network optimization scenario**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194142 pCR 28.812 Update the description of notification used for intent**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

**Decision:** The document was **approved**.

**S5-194286 Discussion paper on document skeleton and flow of contents for Intent driven Management services**

*Type: discussion For: Endorsement  
 28.812 v..  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **noted**.

**S5-194287 pCR 28.812 Interaction with 3GPP management functions**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-194448**.

**S5-194448 pCR 28.812 Interaction with 3GPP management functions**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-194287)

**Decision:** The document was **revised to S5-194540**.

**S5-194540 pCR 28.812 Interaction with 3GPP management functions**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-194448)

**Decision:** The document was **approved**.

**S5-194288 pCR 28.812 Re-structure and improve flow of contents**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-194447**.

**S5-194447 pCR 28.812 Re-structure and improve flow of contents**

*Type: pCR For: Approval  
 28.812 v0.5.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-194288)

**Decision:** The document was **approved**.

**S5-194528 Draft TR 28.812**

*Type: draft TR For: Approval  
 28.812 v0.6.0  
 Source: Huawei*

**Decision:** The document was **approved**.

#### 4.3.7 Discovery of management services in 5G

**S5-194015 Minutes of Discovery of management services in 5G**

*Type: report For: (not specified)  
 Source: Rapporteur (Huawei)*

**Decision:** The document was **revised to S5-194506**.

**S5-194506 Minutes of Discovery of management services in 5G**

*Type: report For: -  
 Source: Rapporteur (Huawei)*

(Replaces S5-194015)

**Decision:** The document was **noted**.

**S5-194181 CR Rel-16 TS 28.533 Add table of management capabilities offered by various management service instances**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0019 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194449**.

**S5-194449 CR Rel-16 TS 28.533 Add table of management capabilities offered by various management service instances**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0019 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194181)

**Decision:** The document was **not pursued**.

**S5-194182 Discussion paper MnS exposure governance potential role in OAuth 2.0 framework**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-194466**.

**S5-194466 Discussion paper MnS exposure governance potential role in OAuth 2.0 framework**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194182)

**Decision:** The document was **noted**.

**S5-194183 CR Rel-16 TS 28.533 Add use case discovery of MnS access information and related requirements**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0020 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194450**.

**S5-194450 CR Rel-16 TS 28.533 Add use case discovery of MnS access information and related requirements**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0020 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194183)

**Decision:** The document was **not pursued**.

**S5-194184 CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0021 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194451**.

**S5-194451 CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0021 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194184)

**Decision:** The document was **revised to S5-194542**.

**S5-194542 CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0021 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194451)

**Decision:** The document was **not pursued**.

**S5-194185 CR Rel-16 TS 28.533 Add use case management scopes in exposure governance and related requirements**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0022 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194452**.

**S5-194452 CR Rel-16 TS 28.533 Add use case management scopes in exposure governance and related requirements**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0022 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194185)

**Decision:** The document was **not pursued**.

**S5-194186 CR Rel-16 TS 28.533 Add use case 3rd party MnS consumer authentication and authorization, and related requirements**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0023 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194453**.

**S5-194453 CR Rel-16 TS 28.533 Add use case 3rd party MnS consumer authentication and authorization, and related requirements**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0023 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194186)

**Decision:** The document was **not pursued**.

**S5-194187 Discussion paper TS 23.222 CAPIF for management service discovery and exposure governance stage 2**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-194454**.

**S5-194454 Discussion paper TS 23.222 CAPIF for management service discovery and exposure governance stage 2**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-194187)

**Decision:** The document was **noted**.

**S5-194220 CR Rel-16 TS 28.533 Add use case for reqesting access to MnS**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0024 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **revised to S5-194455**.

**S5-194455 CR Rel-16 TS 28.533 Add use case for reqesting access to MnS**

*Type: CR For: Agreement  
 28.533 v16.0.0 CR-0024 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-194220)

**Decision:** The document was **not pursued**.

**S5-194309 Discussion paper on MnS registration and discovery**

*Type: discussion For: Endorsement  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-194456**.

**S5-194456 Discussion paper on MnS registration and discovery**

*Type: discussion For: Endorsement  
 Source: Ericsson India Private Limited*

(Replaces S5-194309)

**Decision:** The document was **endorsed**.

#### 4.3.8 NRM enhancements - Alignment of Stage 1, Stage 2 and Stage 3

**S5-194016 Minutes of NRM enhancements - Alignment of Stage 1, Stage 2 and Stage 3**

*Type: report For: (not specified)  
 Source: Rapporteur (Nokia)*

**Decision:** The document was **withdrawn**.

#### 4.3.9 NRM enhancements - Stage 3 Yang definitions

**S5-194017 Minutes of NRM enhancements - Stage 3 Yang definitions**

*Type: report For: (not specified)  
 Source: Rapporteur (Nokia)*

**Decision:** The document was **withdrawn**.

#### 4.3.10 NRM enhancements - Other issues

**S5-194018 Minutes of NRM enhancements - Other issues**

*Type: report For: (not specified)  
 Source: Rapporteur (Nokia)*

**Decision:** The document was **noted**.

**S5-194066 SliceProfile Enhancement based on GSMA GST**

*Type: CR For: Agreement  
 28.541 v16.1.0 CR-0105 Cat: B (Rel-16)  
  
 Source: Samsung R&D Institute UK*

**Abstract:**

This document proposes additional parameters to existing SliceProfile based on GSMA GST

**Decision:** The document was **not pursued**.

**S5-194134 Priority marking for a network slice**

*Type: discussion For: Decision  
 Source: US Cellular Corporation*

**Abstract:**

The network slicing enabler provides a virtualized approach for a flexible allocation and sharing of computing, functional and storage resources, while providing quality of service guarantees, and compatible performance to support for a variety of 5G serv

**Decision:** The document was **noted**.

**S5-194258 Support NF Profile management**

*Type: CR For: Agreement  
 28.541 v16.1.0 CR-0114 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194457**.

**S5-194457 Support NF Profile management**

*Type: CR For: Agreement  
 28.541 v16.1.0 CR-0114 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194258)

**Decision:** The document was **agreed**.

**S5-194259 TD Radio resource management policy**

*Type: discussion For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S5-194269 Revised NRM enhancements WI**

*Type: WID revised For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194459**.

**S5-194459 Revised NRM enhancements WI**

*Type: WID revised For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194269)

**Decision:** The document was **agreed**.

**S5-194270 LS on radio resource management policy**

*Type: LS out For: Approval  
 to RAN3, RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194458**.

**S5-194458 LS on radio resource management policy**

*Type: LS out For: Approval  
 to RAN3, RAN2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194270)

**Decision:** The document was **approved**.

**S5-194274 Discussion Paper around RAN RRM Policies**

*Type: discussion For: Approval  
 Source: Ericsson Limited*

**Decision:** The document was **noted**.

**S5-194275 LS on RRM policies placement**

*Type: LS out For: Approval  
 to RAN2 and RAN3  
 Source: Ericsson Limited*

**Decision:** The document was **merged**.

**S5-194279 Discussion paper around NR beam representation**

*Type: discussion For: Approval  
 Source: Ericsson Limited*

**Decision:** The document was **noted**.

**S5-194290 TD support ORAN parameters in NRM**

*Type: discussion For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194460**.

**S5-194460 TD support ORAN parameters in NRM**

*Type: discussion For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194290)

**Decision:** The document was **endorsed**.

**S5-194310 CR Rel-16 28.541 Add datatype definition for NfService stage 2**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0124 Cat: B (Rel-16)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **not pursued**.

**S5-194461 CR Rel-16 28.541 Add datatype definition for NfService stage 2**

*Type: CR For: Approval  
 28.541 v16.1.0 CR-0124 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **withdrawn**.

#### 4.3.11 Trace Management in the context of Services Based Management Architecture

**S5-194019 Minutes of Trace Management in the context of Services Based Management Architecture**

*Type: report For: (not specified)  
 Source: Rapporteur (Nokia)*

**Decision:** The document was **withdrawn**.

### 4.4 OAM&P Studies

#### 4.4.1 Study on management aspects of edge computing

**S5-194020 Minutes of Study on management aspects of edge computing**

*Type: report For: (not specified)  
 Source: Rapporteur (Intel)*

**Decision:** The document was **noted**.

**S5-194054 pCR 28.803 use case for configuration management to support edge computing**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194470**.

**S5-194470 pCR 28.803 use case for configuration management to support edge computing**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194054)

**Decision:** The document was **approved**.

**S5-194055 pCR 28.803 correction for solution of EC deployment**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **approved**.

**S5-194056 pCR 28.803 solution of AF to access NEF**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194471**.

**S5-194471 pCR 28.803 solution of AF to access NEF**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194056)

**Decision:** The document was **approved**.

**S5-194057 pCR 28.803 revise the conclusion**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-194472**.

**S5-194472 pCR 28.803 revise the conclusion**

*Type: pCR For: Approval  
 28.803 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-194057)

**Decision:** The document was **approved**.

**S5-194065 Synergizing Edge Computing SA5 SA6**

*Type: discussion For: Discussion  
 28.803 v..  
 Source: Samsung R&D Institute UK*

**Abstract:**

This document discusses various Edge Computing related activities ongoing in 3GPP and tries to attain synergy between them.

**Decision:** The document was **noted**.

**S5-194529 Draft TR 28.803**

*Type: draft TR For: Approval  
 28.803 v1.1.0  
 Source: Intel*

**Decision:** The document was **approved**.

#### 4.4.2 Study on tenancy concept in 5G networks and network slicing management

**S5-194021 Minutes of Study on tenancy concept in 5G networks and network slicing management**

*Type: report For: (not specified)  
 Source: Rapporteur (Huawei)*

**Decision:** The document was **noted**.

**S5-194164 pCR 28.804 Management capability of tenant**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194474**.

**S5-194474 pCR 28.804 Management capability of tenant**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

(Replaces S5-194164)

**Decision:** The document was **noted**.

**S5-194165 pCR 28.804 EGMF in multiple tenants environment**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194475**.

**S5-194475 pCR 28.804 EGMF in multiple tenants environment**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

(Replaces S5-194165)

**Decision:** The document was **noted**.

**S5-194166 pCR 28.804 Management resource for tenant**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194476**.

**S5-194476 pCR 28.804 Management resource for tenant**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

(Replaces S5-194166)

**Decision:** The document was **approved**.

**S5-194167 pCR 28.804 Use cases of management capability for tenant**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194479**.

**S5-194479 pCR 28.804 Use cases of management capability for tenant**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

(Replaces S5-194167)

**Decision:** The document was **noted**.

**S5-194168 pCR 28.804 Add potential solutions for performance measurement**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194482**.

**S5-194482 pCR 28.804 Add potential solutions for performance measurement**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

(Replaces S5-194168)

**Decision:** The document was **revised to S5-194543**.

**S5-194543 pCR 28.804 Add potential solutions for performance measurement**

*Type: pCR For: Approval  
 28.804 v0.4.0  
 Source: Huawei*

(Replaces S5-194482)

**Decision:** The document was **approved**.

**S5-194530 Draft TR 28.804**

*Type: draft TR For: Approval  
 28.804 v0.5.0  
 Source: Huawei*

**Decision:** The document was **approved**.

#### 4.4.3 Study on management aspects of communication services

**S5-194022 Minutes of Study on management aspects of communication services**

*Type: report For: (not specified)  
 Source: Rapporteur (Ericsson)*

**Decision:** The document was **noted**.

**S5-194067 Communication service instances realized in multiple network slice instance**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Samsung R&D Institute UK*

**Abstract:**

This contributions proposes that a Communication service instances can be realized in multiple network slice instance

**Decision:** The document was **revised to S5-194319**.

**S5-194188 pCR 28.805 Service QoE in Communication Service Management**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194483**.

**S5-194483 pCR 28.805 Service QoE in Communication Service Management**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Huawei*

(Replaces S5-194188)

**Decision:** The document was **approved**.

**S5-194189 pCR 28.805 Solution for SLA assurance**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**S5-194226 pCR 28.805 Editorial changes**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194494**.

**S5-194494 pCR 28.805 Editorial changes**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194226)

**Decision:** The document was **approved**.

**S5-194227 pCR 28.805 Resolution of the editor's note in 5.1.1**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **approved**.

**S5-194228 pCR 28.805 Solution for MDA-Assisted network provisioning**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194229 pCR 28.805 Solution for MDA-Assisted network optimization**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194488**.

**S5-194488 pCR 28.805 Solution for MDA-Assisted network optimization**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194229)

**Decision:** The document was **revised to S5-194544**.

**S5-194544 pCR 28.805 Solution for MDA-Assisted network optimization**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194488)

**Decision:** The document was **approved**.

**S5-194230 pCR 28.805 Solution for translation of SLA into SLA requirements**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194489**.

**S5-194489 pCR 28.805 Solution for translation of SLA into SLA requirements**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194230)

**Decision:** The document was **approved**.

**S5-194231 pCR 28.805 Clarification on UC of a CSI utilizing multiple NSIs**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194487**.

**S5-194487 pCR 28.805 Clarification on UC of a CSI utilizing multiple NSIs**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194231)

**Decision:** The document was **noted**.

**S5-194232 pCR 28.805 CFCS Profile and RFCS Profile**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194247 pCR 28.805 Solution for CSI termination**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194490**.

**S5-194490 pCR 28.805 Solution for CSI termination**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194247)

**Decision:** The document was **approved**.

**S5-194248 pCR 28.805 Solution for CSI modification**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194491**.

**S5-194491 pCR 28.805 Solution for CSI modification**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194248)

**Decision:** The document was **approved**.

**S5-194249 pCR 28.805 Solution for CSI activation**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194492**.

**S5-194492 pCR 28.805 Solution for CSI activation**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194249)

**Decision:** The document was **approved**.

**S5-194250 pCR 28.805 Solution for CSI de-activation**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194493**.

**S5-194493 pCR 28.805 Solution for CSI de-activation**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

(Replaces S5-194250)

**Decision:** The document was **approved**.

**S5-194251 pCR 28.805 Solution for exposure of CSI management capability**

*Type: pCR For: Approval  
 28.805 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194306 pCR 28.805 Group use cases and requirements**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **approved**.

**S5-194307 pCR 28.805 Use case and requirement for management of multi-site communication service**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-194486**.

**S5-194486 pCR 28.805 Use case and requirement for management of multi-site communication service**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Ericsson India Private Limited,DT*

(Replaces S5-194307)

**Decision:** The document was **approved**.

**S5-194308 pCR 28.805 Adding clarification to NSaaS and resource layer clause 4.3**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-194484**.

**S5-194484 pCR 28.805 Adding clarification to NSaaS and resource layer clause 4.3**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Ericsson India Private Limited,DT*

(Replaces S5-194308)

**Decision:** The document was **approved**.

**S5-194312 Sequence proposal for study on management aspects of communication services**

*Type: other For: (not specified)  
 Source: Ericsson India Private Limited*

**Decision:** The document was **noted**.

**S5-194319 Communication service instances realized in multiple network slice instance**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Samsung R&D Institute UK*

(Replaces S5-194067)

**Abstract:**

This contributions proposes that a Communication service instances can be realized in multiple network slice instance

**Decision:** The document was **noted**.

**S5-194485 Communication service instances realized in multiple network slice instance**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Samsung R&D Institute UK*

**Decision:** The document was **withdrawn**.

**S5-194499 pCR 28.805 Procedure of NSI performance assurance**

*Type: pCR For: Approval  
 28.805 v1.0.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194531 Draft TR 28.805**

*Type: draft TR For: Approval  
 28.805 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

#### 4.4.4 Study on non-file-based trace reporting

**S5-194023 Minutes of Study on non-file-based trace reporting**

*Type: report For: (not specified)  
 Source: Rapporteur(Nokia)*

**Decision:** The document was **noted**.

**S5-194219 pCR 28.806 Introduction clause content**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia*

**Decision:** The document was **approved**.

**S5-194221 pCR 28.806 Scope clause content**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-194496**.

**S5-194496 pCR 28.806 Scope clause content**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia*

(Replaces S5-194221)

**Decision:** The document was **approved**.

**S5-194222 pCR 28.806 Definitions clause content**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia*

**Decision:** The document was **approved**.

**S5-194223 pCR 28.806 Document structure proposal**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia*

**Decision:** The document was **approved**.

**S5-194293 pCR 28.806 Concepts and background**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, AT&T*

**Decision:** The document was **revised to S5-194314**.

**S5-194296 pCR 28.806 New Use Case on collecting Cell and UE data for analytics**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, Orange, AT&T*

**Decision:** The document was **revised to S5-194315**.

**S5-194301 pCR 28.806 New Solution for non-file-based Trace reporting**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, Orange*

**Decision:** The document was **revised to S5-194316**.

**S5-194314 pCR 28.806 Concepts and background**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, AT&T, NEC*

(Replaces S5-194293)

**Decision:** The document was **revised to S5-194497**.

**S5-194497 pCR 28.806 Concepts and background**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, AT&T, NEC*

(Replaces S5-194314)

**Decision:** The document was **approved**.

**S5-194315 pCR 28.806 New Use Case on collecting Cell and UE data for analytics**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, Orange, AT&T, NEC*

(Replaces S5-194296)

**Decision:** The document was **approved**.

**S5-194316 pCR 28.806 New Solution for non-file-based Trace reporting**

*Type: pCR For: Approval  
 28.806 v0.0.0  
 Source: Nokia, Orange, NEC*

(Replaces S5-194301)

**Decision:** The document was **approved**.

**S5-194532 Draft TR 28.806**

*Type: draft TR For: Approval  
 28.806 v0.1.0  
 Source: Nokia*

**Decision:** The document was **approved**.

#### 4.4.5 Study on Self-Organizing Networks (SON) for 5G

**S5-194024 Minutes of Study on Self-Organizing Networks (SON) for 5G**

*Type: report For: (not specified)  
 Source: Rapporteur (Intel)*

**Decision:** The document was **noted**.

**S5-194058 pCR 28.861 addition and revision of ANR related use cases**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, Cisco, ETRI*

**Decision:** The document was **revised to S5-194498**.

**S5-194498 pCR 28.861 addition and revision of ANR related use cases**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, Cisco, ETRI*

(Replaces S5-194058)

**Decision:** The document was **noted**.

**S5-194059 pCR 28.861 solution for automatic neighbor relation**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

**Decision:** The document was **revised to S5-194501**.

**S5-194501 pCR 28.861 solution for automatic neighbor relation**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

(Replaces S5-194059)

**Decision:** The document was **noted**.

**S5-194060 Discussion paper for load balance optimization**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

**Decision:** The document was **noted**.

**S5-194061 pCR 28.861 add use case for load balancing optimization**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

**Decision:** The document was **revised to S5-194502**.

**S5-194502 pCR 28.861 add use case for load balancing optimization**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

(Replaces S5-194061)

**Decision:** The document was **approved**.

**S5-194062 pCR 28.861 revise use case for PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

**Decision:** The document was **revised to S5-194503**.

**S5-194503 pCR 28.861 revise use case for PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

(Replaces S5-194062)

**Decision:** The document was **noted**.

**S5-194063 pCR 28.803 solution for PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

**Decision:** The document was **revised to S5-194504**.

**S5-194504 pCR 28.803 solution for PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI*

(Replaces S5-194063)

**Decision:** The document was **noted**.

**S5-194064 pCR 28.861 updating usecase and requirements for self-establishment of 3GPP NF**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: China Telecommunications, Huawei*

**Abstract:**

Update clause 5.2 Self-establishment of 3GPP NF, including automated software management. Change the description of REQ-SC-3 in 6.1.

**Decision:** The document was **revised to S5-194505**.

**S5-194505 pCR 28.861 updating usecase and requirements for self-establishment of 3GPP NF**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: China Telecommunications, Huawei*

(Replaces S5-194064)

**Decision:** The document was **approved**.

**S5-194068 pCR 28.861 Add overview of potential solution for CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194507**.

**S5-194507 pCR 28.861 Add overview of potential solution for CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

(Replaces S5-194068)

**Decision:** The document was **noted**.

**S5-194069 pCR 28.861 Update SON concept**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194070 pCR 28.861 Update use case and requirements for Multi-vendor Plug and Play of NFs**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194517**.

**S5-194517 pCR 28.861 Update use case and requirements for Multi-vendor Plug and Play of NFs**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

(Replaces S5-194070)

**Decision:** The document was **approved**.

**S5-194071 pCR 28.861 Update Use case and requirements for Automatic Radio Network Configuration Data Handling**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194518**.

**S5-194518 pCR 28.861 Update Use case and requirements for Automatic Radio Network Configuration Data Handling**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

(Replaces S5-194071)

**Decision:** The document was **approved**.

**S5-194072 pCR 28.861 Add potential solution for Centralized CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194516**.

**S5-194516 pCR 28.861 Add potential solution for Centralized CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

(Replaces S5-194072)

**Decision:** The document was **approved**.

**S5-194073 pCR 28.861 Add potential solution for management control of distributed CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194074 pCR 28.861 Add potential solution for self-establishment of NFs**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194519**.

**S5-194519 pCR 28.861 Add potential solution for self-establishment of NFs**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

(Replaces S5-194074)

**Decision:** The document was **approved**.

**S5-194075 pCR 28.861 Remove the unnecessary ANR clause**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194218 Discussion paper on beam management related use cases**

*Type: discussion For: Endorsement  
 28.861 v..  
 Source: Nokia*

**Decision:** The document was **endorsed**.

**S5-194234 pCR 28.861 Beam optimization in CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-194520**.

**S5-194520 pCR 28.861 Beam optimization in CCO**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Ericsson*

(Replaces S5-194234)

**Decision:** The document was **approved**.

**S5-194240 pCR 28.861 Add Use Case for ANR Management**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **noted**.

**S5-194500 pCR 28.861 Add Use Case for ANR Management**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**S5-194271 NSI modification information to NSI NFs**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194289 pCR 28.861 Active Antenna Support Optimization**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-194521**.

**S5-194521 pCR 28.861 Active Antenna Support Optimization**

*Type: pCR For: Approval  
 28.861 v0.5.0  
 Source: Ericsson*

(Replaces S5-194289)

**Decision:** The document was **approved**.

**S5-194401 Sequence of pCR discussion**

*Type: other For: Information  
 Source: Intel*

**Decision:** The document was **noted**.

**S5-194533 Draft TR 28.861**

*Type: draft TR For: Approval  
 28.861 v0.6.0  
 Source: Intel*

**Decision:** The document was **approved**.

## 5 Charging

### 5.1 Rel-16 Charging

#### 5.1.1 Volume Based Charging Aspects for VoLTE

**S5-194245 LS reply from SA5 to CT3 on Requirements on Volume Based Charging**

*Type: LS out For: Approval  
 to CT3, cc CT1  
 Source: China Mobile*

**Decision:** The document was **revised to S5-194321**.

#### 5.1.2 Nchf Online and Offline Charging Services

**S5-194043 Rel-16 CR 32.255 Introduce offline only determination by SMF**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0073 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194322**.

**S5-194322 Rel-16 CR 32.255 Introduce offline only determination by SMF**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0073 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194043)

**Decision:** The document was **agreed**.

**S5-194109 Rel-16 CR 32.290 Add offline olny charging service message content**

*Type: CR For: Agreement  
 32.290 v16.1.0 CR-0052 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194323**.

**S5-194323 Rel-16 CR 32.290 Add offline olny charging service message content**

*Type: CR For: Agreement  
 32.290 v16.1.0 CR-0052 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194109)

**Decision:** The document was **agreed**.

**S5-194110 Rel-16 CR 32.291 Correct Offline only charging service API resource definition**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0075 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194324**.

**S5-194324 Rel-16 CR 32.291 Correct Offline only charging service API resource definition**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0075 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194110)

**Decision:** The document was **agreed**.

**S5-194111 Rel-16 CR 32.291 Add 5G Data Connectivity Specified Data Type for Offline only charging service API data model**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0076 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194325**.

**S5-194325 Rel-16 CR 32.291 Add 5G Data Connectivity Specified Data Type for Offline only charging service API data model**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0076 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194111)

**Decision:** The document was **agreed**.

**S5-194112 Rel-16 CR 32.291 Add Simple data types and enumerations for Offline only charging service API data model**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0077 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194326**.

**S5-194326 Rel-16 CR 32.291 Add Simple data types and enumerations for Offline only charging service API data model**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0077 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194112)

**Decision:** The document was **agreed**.

**S5-194113 Rel-16 CR 32.291 Add Bindings of common CDR field for Offline only charging service API**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0078 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194327**.

**S5-194327 Rel-16 CR 32.291 Add Bindings of common CDR field for Offline only charging service API**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0078 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194113)

**Decision:** The document was **agreed**.

**S5-194114 Rel-16 CR 32.291 Add Offline only charging open API schema**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0079 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194328**.

**S5-194328 Rel-16 CR 32.291 Add Offline only charging open API schema**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0079 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194114)

**Decision:** The document was **agreed**.

#### 5.1.3 Charging Enhancement of 5GC interworking with EPC

**S5-194089 Rel-16 DP charging information for interworking with EPC**

*Type: discussion For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194090 Rel-16 CR 32.255 clarification for EPC interworking triggers**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0067 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194329**.

**S5-194329 Rel-16 CR 32.255 clarification for EPC interworking triggers**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0067 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194090)

**Decision:** The document was **agreed**.

**S5-194091 Rel-16 CR 32.255 EPC interworking call flow correction**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0068 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194330**.

**S5-194330 Rel-16 CR 32.255 EPC interworking call flow correction**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0068 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194091)

**Decision:** The document was **agreed**.

**S5-194092 Rel-16 CR 32.255 EPC interworking triggers impact**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0069 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **not pursued**.

**S5-194093 Rel-16 CR 32.255 Modify the Charging ID**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0070 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194332**.

**S5-194332 Rel-16 CR 32.255 Modify the Charging ID**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0070 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194093)

**Decision:** The document was **agreed**.

**S5-194094 Rel-16 CR 32.291 Modify the Charging ID**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0073 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194333**.

**S5-194333 Rel-16 CR 32.291 Modify the Charging ID**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0073 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194094)

**Decision:** The document was **agreed**.

**S5-194095 Rel-16 CR 32.255 Message flow for 5GS and EPC interworking**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0071 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194331**.

**S5-194331 Rel-16 CR 32.255 Message flow for 5GS and EPC interworking**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0071 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194095)

**Decision:** The document was **agreed**.

**S5-194096 Rel-16 CR 32.255 Definition of charging information for interworking with EPC**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0072 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194359**.

**S5-194359 Rel-16 CR 32.255 Definition of charging information for interworking with EPC**

*Type: CR For: Agreement  
 32.255 v16.1.0 CR-0072 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194096)

**Decision:** The document was **agreed**.

**S5-194097 Rel-16 CR 32.298 Definition of charging parameter for interworking with EPC**

*Type: CR For: Agreement  
 32.298 v16.1.0 CR-0722 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194334**.

**S5-194334 Rel-16 CR 32.298 Definition of charging parameter for interworking with EPC**

*Type: CR For: Agreement  
 32.298 v16.1.0 CR-0722 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194097)

**Decision:** The document was **agreed**.

**S5-194098 Rel-16 CR 32.291 Definition of data model for interworking with EPC**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0074 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-194335**.

**S5-194335 Rel-16 CR 32.291 Definition of data model for interworking with EPC**

*Type: CR For: Agreement  
 32.291 v16.0.0 CR-0074 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-194098)

**Decision:** The document was **agreed**.

**S5-194224 Rel-16 CR 32.291 Update Open API for interworking**

*Type: CR For: (not specified)  
 32.291 v16.0.0 CR-0080 Cat: B (Rel-16)  
  
 Source: HUAWEI*

**Decision:** The document was **revised to S5-194336**.

**S5-194336 Rel-16 CR 32.291 Update Open API for interworking**

*Type: CR For: -  
 32.291 v16.0.0 CR-0080 rev 1 Cat: B (Rel-16)  
  
 Source: HUAWEI*

(Replaces S5-194224)

**Decision:** The document was **agreed**.

#### 5.1.4 Charging AMF in 5G System Architecture Phase 1

**S5-194044 Rel-16 pCR 32.256 CHF selection and AMFcharging characteristics**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194337**.

**S5-194337 Rel-16 pCR 32.256 CHF selection and AMFcharging characteristics**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194044)

**Decision:** The document was **approved**.

**S5-194045 Rel-16 pCR 32.256 IEC introduction**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194357**.

**S5-194357 Rel-16 pCR 32.256 IEC introduction**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194045)

**Decision:** The document was **approved**.

**S5-194046 Rel-16 pCR 32.256 Registration AMF re-allocation and SMS**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194358**.

**S5-194358 Rel-16 pCR 32.256 Registration AMF re-allocation and SMS**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194046)

**Decision:** The document was **approved**.

**S5-194047 Rel-16 pCR 32.256 Introduction of non-3GPP access**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194339**.

**S5-194339 Rel-16 pCR 32.256 Introduction of non-3GPP access**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194047)

**Decision:** The document was **approved**.

**S5-194048 Rel-16 pCR 32.256 Introduce location flows**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194342**.

**S5-194342 Rel-16 pCR 32.256 Introduce location flows**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194048)

**Decision:** The document was **approved**.

**S5-194049 Rel-16 pCR 32.256 Update Charging Information**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194340**.

**S5-194340 Rel-16 pCR 32.256 Update Charging Information**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194049)

**Decision:** The document was **approved**.

**S5-194050 Rel-16 pCR 32.256 Introduction CDR parameters & attributes**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **approved**.

**S5-194195 Rel-16 pCR 32.256 Use of IEC in clause 5.2**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-194338**.

**S5-194338 Rel-16 pCR 32.256 Use of IEC in clause 5.2**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

(Replaces S5-194195)

**Decision:** The document was **approved**.

**S5-194196 Rel-16 pCR 32.256 Use of IEC in flows**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **noted**.

**S5-194197 Rel-16 pCR 32.256 Update of charging data**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-194341**.

**S5-194341 Rel-16 pCR 32.256 Update of charging data**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

(Replaces S5-194197)

**Decision:** The document was **approved**.

**S5-194198 Rel-16 pCR 32.256 Adding of detailed message format**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **noted**.

**S5-194199 Rel-16 pCR 32.256 Adding of binding**

*Type: pCR For: Agreement  
 32.256 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S5-194215 Applicable Triggers Extension for Mobility**

*Type: pCR For: Approval  
 32.256 v0.2.0  
 Source: AT&T GNS Belgium SPRL*

**Abstract:**

Adding applicable triggers for AMF Charging

**Decision:** The document was **noted**.

**S5-194343 Draft TS 32.256**

*Type: draft TS For: (not specified)  
 32.256 v0.3.0  
 Source: Nokia*

**Decision:** The document was **approved**.

### 5.2 Charging Studies

#### 5.2.1 Study on Charging Aspects of Network Slicing

**S5-194051 Rel-16 pCR 32.845 New topic - Network Slice Management**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194346**.

**S5-194346 Rel-16 pCR 32.845 New topic - Network Slice Management**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194051)

**Decision:** The document was **approved**.

**S5-194052 Rel-16 pCR 32.845 Network Slice Management charging - Key Issue**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **approved**.

**S5-194053 Rel-16 pCR 32.845 Network Slice Management charging - solution**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194347**.

**S5-194347 Rel-16 pCR 32.845 Network Slice Management charging - solution**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194053)

**Decision:** The document was **approved**.

**S5-194085 Rel-16 pCR 32.845 Management Domain CTF based NSI Performance Charging**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Openet Telecom*

**Abstract:**

This pCR elaborates on the description in clause 5.1.4.5 to add detail for Solution #1.5 Network Slice Instance Performance based charging for Key issues #1.1.

**Decision:** The document was **noted**.

**S5-194099 Rel-16 pCR TR 32.845 Modify the solution evaluation for event based charging**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **merged**.

**S5-194100 Rel-16 pCR TR 32.845 Addition of solution evaluation and conclusion for usage based charging**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194348**.

**S5-194348 Rel-16 pCR TR 32.845 Addition of solution evaluation and conclusion for usage based charging**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

(Replaces S5-194100)

**Decision:** The document was **approved**.

**S5-194101 Rel-16 pCR TR 32.845 clarify on the performance data and capacity**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194344**.

**S5-194344 Rel-16 pCR TR 32.845 clarify on the performance data and capacity**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

(Replaces S5-194101)

**Decision:** The document was **approved**.

**S5-194102 Rel-16 pCR TR 32.845 clarify on the performance data and KPI**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194345**.

**S5-194345 Rel-16 pCR TR 32.845 clarify on the performance data and KPI**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

(Replaces S5-194102)

**Decision:** The document was **approved**.

**S5-194103 Rel-16 pCR TR 32.845 key issues and solution for usage limit**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194350**.

**S5-194350 Rel-16 pCR TR 32.845 key issues and solution for usage limit**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

(Replaces S5-194103)

**Decision:** The document was **approved**.

**S5-194104 Rel-16 pCR TR 32.845 Addition of use case and potential charging requirements for B2B**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194349**.

**S5-194349 Rel-16 pCR TR 32.845 Addition of use case and potential charging requirements for B2B**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

(Replaces S5-194104)

**Decision:** The document was **approved**.

**S5-194105 Rel-16 pCR TR 32.845 Add a new topic for Business to Consumer (B2C)**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-194352**.

**S5-194352 Rel-16 pCR TR 32.845 Add a new topic for Business to Consumer (B2C)**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

(Replaces S5-194105)

**Decision:** The document was **agreed**.

**S5-194106 Rel-16 pCR TR 32.845 Add a new topic for Business to Business to X (B2B2X)**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**S5-194107 Rel-16 pCR TR 32.845 Modify the key isuess for requirment 6**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Huawei*

**Decision:** The document was **approved**.

**S5-194108 Rel-16 pCR TR 32.845 Discussion Paper on the Business Model of Network Slice Charging**

*Type: discussion For: Agreement  
 32.845 v..  
 Source: Huawei*

**Decision:** The document was **revised to S5-194351**.

**S5-194351 Rel-16 pCR TR 32.845 Discussion Paper on the Business Model of Network Slice Charging**

*Type: discussion For: Agreement  
 32.845 v..  
 Source: Huawei*

(Replaces S5-194108)

**Decision:** The document was **noted**.

**S5-194115 Rel-16 pCR TR 32.845 Add the solution evaluation for performance based charging**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: HUAWEI*

**Decision:** The document was **revised to S5-194355**.

**S5-194355 Rel-16 pCR TR 32.845 Add the solution evaluation for performance based charging**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: HUAWEI*

(Replaces S5-194115)

**Decision:** The document was **noted**.

**S5-194285 Rel-16 pCR 32.845 Harmonizing the Solution evaluations**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-194354**.

**S5-194354 Rel-16 pCR 32.845 Harmonizing the Solution evaluations**

*Type: pCR For: Agreement  
 32.845 v0.4.0  
 Source: Ericsson*

(Replaces S5-194285)

**Decision:** The document was **approved**.

**S5-194317 Rel-16 pCR 32.845 Performance based charging - NWDAF solution**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-194353**.

**S5-194353 Rel-16 pCR 32.845 Performance based charging - NWDAF solution**

*Type: pCR For: Approval  
 32.845 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-194317)

**Decision:** The document was **agreed**.

**S5-194356 Draft TR 32.845**

*Type: draft TR For: (not specified)  
 32.845 v0.5.0  
 Source: Huawei*

**Decision:** The document was **approved**.

### 5.3 Charging Plenary

**S5-194009 CH executive report**

*Type: report For: (not specified)  
 Source: CH SWG Chair*

**Decision:** The document was **withdrawn**.

**S5-194025 CH Agenda and Time Plan**

*Type: agenda For: (not specified)  
 Source: CH SWG Chair*

**Decision:** The document was **approved**.

**S5-194026 LS from CT3 to SA5 on Requirements on Volume Based Charging**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-191408*

**Decision:** The document was **replied to in S5-194321**.

**S5-194321 Reply to: LS from CT3 to SA5 on Requirements on Volume Based Charging**

*Type: LS out For: approval  
 to CT3  
 Source: China Mobile*

(Replaces S5-194245)

**Decision:** The document was **approved**.

**S5-194039 Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Decision:** The document was **postponed**.

**S5-194191 LS from ETSI TC LI to SA5 on 5G Cell ID(s) in the 3GPP SA5 billing system**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ETSI TC LI*

**Decision:** The document was **postponed**.

**S5-194200 Rel-16 CR 32.275 Addition of converged charging architecture**

*Type: CR For: Agreement  
 32.275 v15.0.0 CR-0068 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194201 Rel-16 CR 32.275 Addition of converged charging scenarios**

*Type: CR For: Agreement  
 32.275 v15.0.0 CR-0069 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194202 Rel-16 CR 32.275 Addition of applicable Triggers for converged charging**

*Type: CR For: Agreement  
 32.275 v15.0.0 CR-0070 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194203 Rel-16 CR 32.275 Addition of converged charging message flows**

*Type: CR For: Agreement  
 32.275 v15.0.0 CR-0071 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194204 Rel-16 CR 32.275 Addition of converged charging CDR handling**

*Type: CR For: Agreement  
 32.275 v15.0.0 CR-0072 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194205 Rel-16 CR 32.281 Addition of converged charging architecture**

*Type: CR For: Agreement  
 32.281 v15.0.0 CR-0003 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194206 Rel-16 CR 32.281 Addition of converged charging basic principles**

*Type: CR For: Agreement  
 32.281 v15.0.0 CR-0004 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194207 Rel-16 CR 32.281 Addition of converged charging flows**

*Type: CR For: Agreement  
 32.281 v15.0.0 CR-0005 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194208 Rel-16 CR 32.281 Addition of converged charging information principles**

*Type: CR For: Agreement  
 32.281 v15.0.0 CR-0006 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **not pursued**.

**S5-194320 Reply LS to GSMA to SA2 and SA5 on VoWiFi – VoLTE handover**

*Type: LS out For: (not specified)  
 to GSMA  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**S5-194360 Tdoc status list**

*Type: other For: (not specified)  
 Source: Charging SWG Chair (Nokia)*

**Decision:** The document was **not treated**.

**S5-194361 Reserved for Charging 42**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194362 Reserved for Charging 43**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194363 Reserved for Charging 44**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194364 Reserved for Charging 45**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194365 Reserved for Charging 46**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194366 Reserved for Charging 47**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194367 Reserved for Charging 48**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194368 Reserved for Charging 49**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194369 Reserved for Charging 50**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194370 Reserved for Charging 51**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194371 Reserved for Charging 52**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194372 Reserved for Charging 53**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194373 Reserved for Charging 54**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194374 Reserved for Charging 55**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194375 Reserved for Charging 56**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194376 Reserved for Charging 57**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194377 Reserved for Charging 58**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194378 Reserved for Charging 59**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194379 Reserved for Charging 60**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194380 Reserved for Charging 61**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194381 Reserved for Charging 62**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194382 Reserved for Charging 63**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194383 Reserved for Charging 64**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194384 Reserved for Charging 65**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194385 Reserved for Charging 66**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194386 Reserved for Charging 67**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194387 Reserved for Charging 68**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194388 Reserved for Charging 69**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

**S5-194389 Reserved for Charging 70**

*Type: other For: (not specified)  
 Source: Charging SWG*

**Decision:** The document was **withdrawn**.

## 6 Any Other Business

**S5-194002 Status of email approvals**

*Type: other For: (not specified)  
 Source: WG Vice Chair (Orange)*

**Decision:** The document was **not treated**.

**S5-194003 3GPP SA5 Work Plan**

*Type: other For: (not specified)  
 Source: MCC*

**Decision:** The document was **noted**.

## 7 Closing of the meeting

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-194000 | Agenda | WG Chairman | approved |  |  |
| S5-194001 | IPR and legal declaration | WG Chairman | noted |  |  |
| S5-194002 | Status of email approvals | WG Vice Chair (Orange) | available |  |  |
| S5-194003 | 3GPP SA5 Work Plan | MCC | noted |  |  |
| S5-194004 | OAM time plan | WG Vice Chair (Huawei) | revised |  | S5-194390 |
| S5-194005 | OAM Executive Report | WG Vice Chair (ORANGE) | noted |  |  |
| S5-194006 | OAM&P SWG action list | WG Vice Chair (Huawei) | revised |  | S5-194546 |
| S5-194007 | Minutes of OAM&P Plenary | WG Vice Chair (Huawei) | noted |  |  |
| S5-194008 | Minutes of OAM&P Maintenance and Rel-16 small Enhancements | WG Vice Chair | noted |  |  |
| S5-194009 | CH executive report | CH SWG Chair | withdrawn |  |  |
| S5-194010 | Minutes of Enhancement of performance assurance - Stage 2 and 3 definitions (and decide on the placement of MnSs Stage 3 (28.532 vs. 28.550)) | Rapporteur (China Mobile) | noted |  |  |
| S5-194011 | Minutes of Management of QoE measurement collection | Rapporteur (Ericsson) | noted |  |  |
| S5-194012 | Minutes of Network policy management for mobile networks based on NFV scenarios | Rapporteur (China Mobile) | noted |  |  |
| S5-194013 | Minutes of Methodology for 5G management specifications | Rapporteur (Ericsson) | noted |  |  |
| S5-194014 | Minutes of Intent driven management service for mobile networks | Rapporteur (Huawei) | noted |  |  |
| S5-194015 | Minutes of Discovery of management services in 5G | Rapporteur (Huawei) | revised |  | S5-194506 |
| S5-194016 | Minutes of NRM enhancements - Alignment of Stage 1, Stage 2 and Stage 3 | Rapporteur (Nokia) | withdrawn |  |  |
| S5-194017 | Minutes of NRM enhancements - Stage 3 Yang definitions | Rapporteur (Nokia) | withdrawn |  |  |
| S5-194018 | Minutes of NRM enhancements - Other issues | Rapporteur (Nokia) | noted |  |  |
| S5-194019 | Minutes of Trace Management in the context of Services Based Management Architecture | Rapporteur (Nokia) | withdrawn |  |  |
| S5-194020 | Minutes of Study on management aspects of edge computing | Rapporteur (Intel) | noted |  |  |
| S5-194021 | Minutes of Study on tenancy concept in 5G networks and network slicing management | Rapporteur (Huawei) | noted |  |  |
| S5-194022 | Minutes of Study on management aspects of communication services | Rapporteur (Ericsson) | noted |  |  |
| S5-194023 | Minutes of Study on non-file-based trace reporting | Rapporteur(Nokia) | noted |  |  |
| S5-194024 | Minutes of Study on Self-Organizing Networks (SON) for 5G | Rapporteur (Intel) | noted |  |  |
| S5-194025 | CH Agenda and Time Plan | CH SWG Chair | approved |  |  |
| S5-194026 | LS from CT3 to SA5 on Requirements on Volume Based Charging | C3-191408 | replied to |  |  |
| S5-194027 | Resubmitted LS from RAN1 to SA5 on LS on completion of CLI-RIM in RAN1 | R1-1903676 | postponed |  |  |
| S5-194028 | LS from RAN2 to SA2 and SA5 on IAB impact to CN | R2-1905475 | postponed |  |  |
| S5-194029 | Reply LS from RAN2 to SA5 on the user plane latency measurement | R2-1908144 | postponed |  |  |
| S5-194030 | Reply LS from RAN3 to SA5 on L1 and L2 measurements | R3-192122 | postponed |  |  |
| S5-194031 | Reply LS from RAN3 to SA5 on PDCP end user throughput measurements | R3-192124 | postponed |  |  |
| S5-194032 | Reply LS from RAN3 ccSA5 on 5G\_URLLC | R3-192179 | postponed |  |  |
| S5-194033 | LS from RAN3 to SA5 on OAM requirements for RIM | R3-193245 | postponed |  |  |
| S5-194034 | LS from SA2 ccSA5 on QoS Monitoring | S2-1904761 | postponed |  |  |
| S5-194035 | Reply LS from RAN3 ccSA5 on QoS Monitoring | R3-193282 | postponed |  |  |
| S5-194036 | Resubmitted LS reply from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter | S2-1902847 | postponed |  |  |
| S5-194037 | Response LS from SA2 ccSA5 on reporting all cell IDs in 5G | S2-1904819 | noted |  |  |
| S5-194038 | LS from SA2 to SA5 on User Data Congestion Analytics | S2-1906797 | postponed |  |  |
| S5-194039 | Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | GSMA | postponed |  |  |
| S5-194040 | Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | ITU-T SG2 | postponed |  |  |
| S5-194041 | LS from ITU-T to SA5 on Energy Efficiency on 5G (reply to 3GPP TSG SA5-S5-191344) | ITU-T SG5 | postponed |  |  |
| S5-194042 | LS from ITU-T to SA5 on new Recommendation Q.5020 (formerly Q.NS-LCMP): Protocol requirements and procedures for network slice lifecycle management | ITU-T SG11 | postponed |  |  |
| S5-194043 | Rel-16 CR 32.255 Introduce offline only determination by SMF | Nokia, Nokia Shanghai Bell | revised |  | S5-194322 |
| S5-194044 | Rel-16 pCR 32.256 CHF selection and AMFcharging characteristics | Nokia, Nokia Shanghai Bell | revised |  | S5-194337 |
| S5-194045 | Rel-16 pCR 32.256 IEC introduction | Nokia, Nokia Shanghai Bell | revised |  | S5-194357 |
| S5-194046 | Rel-16 pCR 32.256 Registration AMF re-allocation and SMS | Nokia, Nokia Shanghai Bell | revised |  | S5-194358 |
| S5-194047 | Rel-16 pCR 32.256 Introduction of non-3GPP access | Nokia, Nokia Shanghai Bell | revised |  | S5-194339 |
| S5-194048 | Rel-16 pCR 32.256 Introduce location flows | Nokia, Nokia Shanghai Bell | revised |  | S5-194342 |
| S5-194049 | Rel-16 pCR 32.256 Update Charging Information | Nokia, Nokia Shanghai Bell | revised |  | S5-194340 |
| S5-194050 | Rel-16 pCR 32.256 Introduction CDR parameters & attributes | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-194051 | Rel-16 pCR 32.845 New topic - Network Slice Management | Nokia, Nokia Shanghai Bell | revised |  | S5-194346 |
| S5-194052 | Rel-16 pCR 32.845 Network Slice Management charging - Key Issue | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-194053 | Rel-16 pCR 32.845 Network Slice Management charging - solution | Nokia, Nokia Shanghai Bell | revised |  | S5-194347 |
| S5-194054 | pCR 28.803 use case for configuration management to support edge computing | Intel Corporation (UK) Ltd | revised |  | S5-194470 |
| S5-194055 | pCR 28.803 correction for solution of EC deployment | Intel Corporation (UK) Ltd | approved |  |  |
| S5-194056 | pCR 28.803 solution of AF to access NEF | Intel Corporation (UK) Ltd | revised |  | S5-194471 |
| S5-194057 | pCR 28.803 revise the conclusion | Intel Corporation (UK) Ltd | revised |  | S5-194472 |
| S5-194058 | pCR 28.861 addition and revision of ANR related use cases | Intel Corporation (UK) Ltd, Verizon UK Ltd, Cisco, ETRI | revised |  | S5-194498 |
| S5-194059 | pCR 28.861 solution for automatic neighbor relation | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | revised |  | S5-194501 |
| S5-194060 | Discussion paper for load balance optimization | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | noted |  |  |
| S5-194061 | pCR 28.861 add use case for load balancing optimization | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | revised |  | S5-194502 |
| S5-194062 | pCR 28.861 revise use case for PCI configuration | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | revised |  | S5-194503 |
| S5-194063 | pCR 28.803 solution for PCI configuration | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | revised |  | S5-194504 |
| S5-194064 | pCR 28.861 updating usecase and requirements for self-establishment of 3GPP NF | China Telecommunications, Huawei | revised |  | S5-194505 |
| S5-194065 | Synergizing Edge Computing SA5 SA6 | Samsung R&D Institute UK | noted |  |  |
| S5-194066 | SliceProfile Enhancement based on GSMA GST | Samsung R&D Institute UK | not pursued |  |  |
| S5-194067 | Communication service instances realized in multiple network slice instance | Samsung R&D Institute UK | revised |  | S5-194319 |
| S5-194068 | pCR 28.861 Add overview of potential solution for CCO | Huawei | revised |  | S5-194507 |
| S5-194069 | pCR 28.861 Update SON concept | Huawei | noted |  |  |
| S5-194070 | pCR 28.861 Update use case and requirements for Multi-vendor Plug and Play of NFs | Huawei | revised |  | S5-194517 |
| S5-194071 | pCR 28.861 Update Use case and requirements for Automatic Radio Network Configuration Data Handling | Huawei | revised |  | S5-194518 |
| S5-194072 | pCR 28.861 Add potential solution for Centralized CCO | Huawei | revised |  | S5-194516 |
| S5-194073 | pCR 28.861 Add potential solution for management control of distributed CCO | Huawei | noted |  |  |
| S5-194074 | pCR 28.861 Add potential solution for self-establishment of NFs | Huawei | revised |  | S5-194519 |
| S5-194075 | pCR 28.861 Remove the unnecessary ANR clause | Huawei | noted |  |  |
| S5-194076 | Add Policy management procedures | China Mobile Com. Corporation | revised |  | S5-194428 |
| S5-194077 | Add description and interface definition of creating a policy | China Mobile Com. Corporation | revised |  | S5-194429 |
| S5-194078 | Add description and interface definition of deleting a policy | China Mobile Com. Corporation | revised |  | S5-194430 |
| S5-194079 | Add description and interface definition of updating a policy | China Mobile Com. Corporation | revised |  | S5-194431 |
| S5-194080 | Add description and interface definition of querying a policy | China Mobile Com. Corporation | revised |  | S5-194432 |
| S5-194081 | Add description and interface definition of activating a policy | China Mobile Com. Corporation | revised |  | S5-194433 |
| S5-194082 | Add description and interface definition of deactivating a policy | China Mobile Com. Corporation | revised |  | S5-194434 |
| S5-194083 | Add interface definition of reporting policy conflicts | China Mobile Com. Corporation | revised |  | S5-194435 |
| S5-194084 | Exception Sheet for policy management | China Mobile Com. Corporation | noted |  |  |
| S5-194085 | Rel-16 pCR 32.845 Management Domain CTF based NSI Performance Charging | Openet Telecom | noted |  |  |
| S5-194086 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | revised |  | S5-194396 |
| S5-194087 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | revised |  | S5-194397 |
| S5-194088 | pCR 28.552 Add a descripment of Number of successful RRC Connections measurement | China Mobile Com. Corporation | withdrawn |  |  |
| S5-194089 | Rel-16 DP charging information for interworking with EPC | Huawei | noted |  |  |
| S5-194090 | Rel-16 CR 32.255 clarification for EPC interworking triggers | Huawei | revised |  | S5-194329 |
| S5-194091 | Rel-16 CR 32.255 EPC interworking call flow correction | Huawei | revised |  | S5-194330 |
| S5-194092 | Rel-16 CR 32.255 EPC interworking triggers impact | Huawei | not pursued |  |  |
| S5-194093 | Rel-16 CR 32.255 Modify the Charging ID | Huawei | revised |  | S5-194332 |
| S5-194094 | Rel-16 CR 32.291 Modify the Charging ID | Huawei | revised |  | S5-194333 |
| S5-194095 | Rel-16 CR 32.255 Message flow for 5GS and EPC interworking | Huawei | revised |  | S5-194331 |
| S5-194096 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | revised |  | S5-194359 |
| S5-194097 | Rel-16 CR 32.298 Definition of charging parameter for interworking with EPC | Huawei | revised |  | S5-194334 |
| S5-194098 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | revised |  | S5-194335 |
| S5-194099 | Rel-16 pCR TR 32.845 Modify the solution evaluation for event based charging | Huawei | merged |  | S5-194354 |
| S5-194100 | Rel-16 pCR TR 32.845 Addition of solution evaluation and conclusion for usage based charging | Huawei | revised |  | S5-194348 |
| S5-194101 | Rel-16 pCR TR 32.845 clarify on the performance data and capacity | Huawei | revised |  | S5-194344 |
| S5-194102 | Rel-16 pCR TR 32.845 clarify on the performance data and KPI | Huawei | revised |  | S5-194345 |
| S5-194103 | Rel-16 pCR TR 32.845 key issues and solution for usage limit | Huawei | revised |  | S5-194350 |
| S5-194104 | Rel-16 pCR TR 32.845 Addition of use case and potential charging requirements for B2B | Huawei | revised |  | S5-194349 |
| S5-194105 | Rel-16 pCR TR 32.845 Add a new topic for Business to Consumer (B2C) | Huawei | revised |  | S5-194352 |
| S5-194106 | Rel-16 pCR TR 32.845 Add a new topic for Business to Business to X (B2B2X) | Huawei | noted |  |  |
| S5-194107 | Rel-16 pCR TR 32.845 Modify the key isuess for requirment 6 | Huawei | approved |  |  |
| S5-194108 | Rel-16 pCR TR 32.845 Discussion Paper on the Business Model of Network Slice Charging | Huawei | revised |  | S5-194351 |
| S5-194109 | Rel-16 CR 32.290 Add offline olny charging service message content | Huawei | revised |  | S5-194323 |
| S5-194110 | Rel-16 CR 32.291 Correct Offline only charging service API resource definition | Huawei | revised |  | S5-194324 |
| S5-194111 | Rel-16 CR 32.291 Add 5G Data Connectivity Specified Data Type for Offline only charging service API data model | Huawei | revised |  | S5-194325 |
| S5-194112 | Rel-16 CR 32.291 Add Simple data types and enumerations for Offline only charging service API data model | Huawei | revised |  | S5-194326 |
| S5-194113 | Rel-16 CR 32.291 Add Bindings of common CDR field for Offline only charging service API | Huawei | revised |  | S5-194327 |
| S5-194114 | Rel-16 CR 32.291 Add Offline only charging open API schema | Huawei | revised |  | S5-194328 |
| S5-194115 | Rel-16 pCR TR 32.845 Add the solution evaluation for performance based charging | HUAWEI | revised |  | S5-194355 |
| S5-194116 | Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming | Intel Corporation (UK) Ltd | revised |  | S5-194417 |
| S5-194117 | Rel-15 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | revised |  | S5-194398 |
| S5-194118 | Rel-16 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | revised |  | S5-194399 |
| S5-194119 | Rel-16 CR 28.532 Add missing stage 3 solutions for performance threshold monitoring service | Intel Corporation (UK) Ltd | merged |  | S5-194414 |
| S5-194120 | Correction on StreamInfoList | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-194121 | Rel-15 Correction on peformance data file reporting service components | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-194122 | Rel-16 Correction on peformance data file reporting service components | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-194123 | Rel-16 Correction on peformance data streaming service components | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-194124 | Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service | Intel Corporation (UK) Ltd | revised |  | S5-194400 |
| S5-194125 | Rel-16 CR 28.552 Add measurements related to application triggering | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-194126 | Rel-16 CR 28.552 Add measurements related SMS over NAS | Intel Corporation (UK) Ltd | revised |  | S5-194421 |
| S5-194127 | Rel-16 CR 28.552 Correction of clause titles | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-194128 | Rel-15 CR TS 28.541 Correct description for NR deployment scenario | Huawei | revised |  | S5-194404 |
| S5-194129 | Rel-16 CR TS 28.541 Correct description for NR deployment scenario | Huawei | revised |  | S5-194405 |
| S5-194130 | Rel-15 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | revised |  | S5-194403 |
| S5-194131 | Rel-16 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | revised |  | S5-194406 |
| S5-194132 | Rel-15 CR TS 28.532 Add RESTful HTTP-based solution set for file-based performance assurance MnS | Huawei | merged |  | S5-194398 |
| S5-194133 | Rel-16 CR TS 28.532 Add RESTful HTTP-based solution set for file-based performance assurance MnS | Huawei | merged |  | S5-194399 |
| S5-194134 | Priority marking for a network slice | US Cellular Corporation | noted |  |  |
| S5-194135 | pCR 28.812 Add concept of intent driven management for area network | Huawei | revised |  | S5-194441 |
| S5-194136 | pCR 28.812 Update clause 4.1.1 Introduction | Huawei | revised |  | S5-194442 |
| S5-194137 | pCR 28.812 Add solution for Cell rehoming | Huawei | noted |  | - |
| S5-194138 | pCR 28.812 Add solution for area load balance | Huawei | revised |  | S5-194444 |
| S5-194139 | pCR 28.812 Update lifecycle management of intent | Huawei | revised |  | S5-194445 |
| S5-194140 | pCR 28.812 Update concept of intent translation | Huawei | revised |  | S5-194446 |
| S5-194141 | pCR 28.812 Add solution for intent driven network optimization scenario | Huawei | noted |  |  |
| S5-194142 | pCR 28.812 Update the description of notification used for intent | Huawei | approved |  |  |
| S5-194143 | S5-Sapporo CR Rel-15 28541 v1530 Correct style for enumeration literals | Ericsson-LG Co., LTD | revised |  | S5-194407 |
| S5-194144 | Rel-15 CR TS 28.531 Update the incorrect reference | Huawei | agreed |  |  |
| S5-194145 | Rel-16 CR TS 28.531 Update the incorrect reference | Huawei | agreed |  |  |
| S5-194146 | Rel-11 CR TS 32.502 Update incorrect information | Huawei | agreed |  |  |
| S5-194147 | Rel-12 CR TS 32.502 Update incorrect information | Huawei | agreed |  |  |
| S5-194148 | Rel-13 CR TS 32.502 Update incorrect information | Huawei | agreed |  |  |
| S5-194149 | Rel-14 CR TS 32.502 Update incorrect information | Huawei | agreed |  |  |
| S5-194150 | Rel-15 CR TS 32.502 Update incorrect information | Huawei | agreed |  |  |
| S5-194151 | Rel-15 CR TS 28.552 Correct the definition of Average delay DL air-interface measurement | ZTE, China Mobile | agreed |  |  |
| S5-194152 | Rel-16 CR TS 28.552 Correct the definition of Average delay DL air-interface measurement | ZTE, China Mobile | agreed |  |  |
| S5-194153 | Rel-15 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | not pursued |  |  |
| S5-194154 | Rel-16 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | not pursued |  | - |
| S5-194155 | Rel-13 CR TS 32.450 Correction on kbits abbreviation | Huawei | agreed |  |  |
| S5-194156 | Rel-14 CR TS 32.450 Correction on kbits abbreviation | Huawei | agreed |  |  |
| S5-194157 | Rel-15 CR TS 32.450 Correction on kbits abbreviation | Huawei | agreed |  |  |
| S5-194158 | Rel-15 CR TS 28.552 Correction on kbits abbreviation | Huawei | revised |  | S5-194410 |
| S5-194159 | Rel-16 CR TS 28.552 Correction on kbits abbreviation | Huawei | revised |  | S5-194411 |
| S5-194160 | Rel-15 CR TS 28.554 Correction on kbits abbreviation | Huawei | agreed |  |  |
| S5-194161 | Rel-16 CR TS 28.554 Correction on kbits abbreviation | Huawei | agreed |  |  |
| S5-194162 | Rel-15 CR 28622 V1520 Clarify optional configurable PM | Ericsson-LG Co., LTD | revised |  | S5-194412 |
| S5-194163 | Rel-15 CR 28623 v1520 Add Generic NRM IRP solution sets | Ericsson-LG Co., LTD | revised |  | S5-194391 |
| S5-194164 | pCR 28.804 Management capability of tenant | Huawei | revised |  | S5-194474 |
| S5-194165 | pCR 28.804 EGMF in multiple tenants environment | Huawei | revised |  | S5-194475 |
| S5-194166 | pCR 28.804 Management resource for tenant | Huawei | revised |  | S5-194476 |
| S5-194167 | pCR 28.804 Use cases of management capability for tenant | Huawei | revised |  | S5-194479 |
| S5-194168 | pCR 28.804 Add potential solutions for performance measurement | Huawei | revised |  | S5-194482 |
| S5-194169 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | revised |  | S5-194422 |
| S5-194170 | CR Rel-16 28.552 Add measurement of UPF for N4 interface | Huawei | agreed |  |  |
| S5-194171 | CR Rel-16 28.552 Add measurement of paging | Huawei | revised |  | S5-194423 |
| S5-194172 | CR Rel-16 28.552 Update performance measurements for UDM | Huawei | revised |  | S5-194424 |
| S5-194173 | CR Rel-8 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194508 |
| S5-194174 | CR Rel-9 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194509 |
| S5-194175 | CR Rel-10 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194510 |
| S5-194176 | CR Rel-11 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194511 |
| S5-194177 | CR Rel-12 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194512 |
| S5-194178 | CR Rel-13 32.426 Correct description of measurement KPI of paging | Huawei | not pursued |  | - |
| S5-194179 | CR Rel-14 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194514 |
| S5-194180 | CR Rel-15 32.426 Correct description of measurement KPI of paging | Huawei | revised |  | S5-194515 |
| S5-194181 | CR Rel-16 TS 28.533 Add table of management capabilities offered by various management service instances | Huawei | revised |  | S5-194449 |
| S5-194182 | Discussion paper MnS exposure governance potential role in OAuth 2.0 framework | Huawei | revised |  | S5-194466 |
| S5-194183 | CR Rel-16 TS 28.533 Add use case discovery of MnS access information and related requirements | Huawei | revised |  | S5-194450 |
| S5-194184 | CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement | Huawei | revised |  | S5-194451 |
| S5-194185 | CR Rel-16 TS 28.533 Add use case management scopes in exposure governance and related requirements | Huawei | revised |  | S5-194452 |
| S5-194186 | CR Rel-16 TS 28.533 Add use case 3rd party MnS consumer authentication and authorization, and related requirements | Huawei | revised |  | S5-194453 |
| S5-194187 | Discussion paper TS 23.222 CAPIF for management service discovery and exposure governance stage 2 | Huawei | revised |  | S5-194454 |
| S5-194188 | pCR 28.805 Service QoE in Communication Service Management | Huawei | revised |  | S5-194483 |
| S5-194189 | pCR 28.805 Solution for SLA assurance | Huawei | withdrawn |  |  |
| S5-194190 | Rel-15 CR 28541 v1530 YANG solution | Ericsson-LG Co., LTD | revised |  | S5-194392 |
| S5-194191 | LS from ETSI TC LI to SA5 on 5G Cell ID(s) in the 3GPP SA5 billing system | ETSI TC LI | postponed |  |  |
| S5-194192 | Rel-16 pCR 32.160 v120 YANG style guide | Ericsson-LG Co., LTD | revised |  | S5-194318 |
| S5-194193 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | revised |  | S5-194413 |
| S5-194194 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | revised |  | S5-194414 |
| S5-194195 | Rel-16 pCR 32.256 Use of IEC in clause 5.2 | Ericsson | revised |  | S5-194338 |
| S5-194196 | Rel-16 pCR 32.256 Use of IEC in flows | Ericsson | noted |  |  |
| S5-194197 | Rel-16 pCR 32.256 Update of charging data | Ericsson | revised |  | S5-194341 |
| S5-194198 | Rel-16 pCR 32.256 Adding of detailed message format | Ericsson | noted |  |  |
| S5-194199 | Rel-16 pCR 32.256 Adding of binding | Ericsson | approved |  |  |
| S5-194200 | Rel-16 CR 32.275 Addition of converged charging architecture | Ericsson | not pursued |  |  |
| S5-194201 | Rel-16 CR 32.275 Addition of converged charging scenarios | Ericsson | not pursued |  |  |
| S5-194202 | Rel-16 CR 32.275 Addition of applicable Triggers for converged charging | Ericsson | not pursued |  |  |
| S5-194203 | Rel-16 CR 32.275 Addition of converged charging message flows | Ericsson | not pursued |  |  |
| S5-194204 | Rel-16 CR 32.275 Addition of converged charging CDR handling | Ericsson | not pursued |  |  |
| S5-194205 | Rel-16 CR 32.281 Addition of converged charging architecture | Ericsson | not pursued |  |  |
| S5-194206 | Rel-16 CR 32.281 Addition of converged charging basic principles | Ericsson | not pursued |  |  |
| S5-194207 | Rel-16 CR 32.281 Addition of converged charging flows | Ericsson | not pursued |  |  |
| S5-194208 | Rel-16 CR 32.281 Addition of converged charging information principles | Ericsson | not pursued |  |  |
| S5-194209 | Rel-15 CR TS 28.532 Align the PM file format by copying the file format from TS 28.550 | Huawei | merged |  | S5-194413 |
| S5-194210 | Rel-16 CR TS 28.532 Align the PM file format by copying the file format from TS 28.550 | Huawei | merged |  | S5-194414 |
| S5-194211 | Rel-15 CR TS 28.550 Remove the PM file format | Huawei | revised |  | S5-194415 |
| S5-194212 | Rel-16 CR TS 28.550 Remove the PM file format | Huawei | revised |  | S5-194416 |
| S5-194213 | Add use case and definitions of average round-trip user plane packet delay measurement between UE and UPF | ETRI | not pursued |  |  |
| S5-194214 | Add use case and definitions of user plane packet delay measurement between UE and UPF | ETRI | not pursued |  |  |
| S5-194215 | Applicable Triggers Extension for Mobility | AT&T GNS Belgium SPRL | noted |  |  |
| S5-194216 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT | revised | S5-193401 | S5-194473 |
| S5-194217 | Discussion paper on description of inherited attributes | Huawei | revised |  | S5-194439 |
| S5-194218 | Discussion paper on beam management related use cases | Nokia | endorsed |  |  |
| S5-194219 | pCR 28.806 Introduction clause content | Nokia | approved |  |  |
| S5-194220 | CR Rel-16 TS 28.533 Add use case for reqesting access to MnS | Huawei Tech.(UK) Co., Ltd | revised |  | S5-194455 |
| S5-194221 | pCR 28.806 Scope clause content | Nokia | revised |  | S5-194496 |
| S5-194222 | pCR 28.806 Definitions clause content | Nokia | approved |  |  |
| S5-194223 | pCR 28.806 Document structure proposal | Nokia | approved |  |  |
| S5-194224 | Rel-16 CR 32.291 Update Open API for interworking | HUAWEI | revised |  | S5-194336 |
| S5-194225 | Rel-16 CR 28.532 Add management service of Operation getAlarmCount | China Mobile Com. Corporation, ZTE | merged |  | S5-194414 |
| S5-194226 | pCR 28.805 Editorial changes | Huawei | revised |  | S5-194494 |
| S5-194227 | pCR 28.805 Resolution of the editor's note in 5.1.1 | Huawei | approved |  |  |
| S5-194228 | pCR 28.805 Solution for MDA-Assisted network provisioning | Huawei | noted |  |  |
| S5-194229 | pCR 28.805 Solution for MDA-Assisted network optimization | Huawei | revised |  | S5-194488 |
| S5-194230 | pCR 28.805 Solution for translation of SLA into SLA requirements | Huawei | revised |  | S5-194489 |
| S5-194231 | pCR 28.805 Clarification on UC of a CSI utilizing multiple NSIs | Huawei | revised |  | S5-194487 |
| S5-194232 | pCR 28.805 CFCS Profile and RFCS Profile | Huawei | noted |  |  |
| S5-194233 | Rel-15 CR 28.532 Add management service of Operation getAlarmCount | China Mobile, ZTE | merged |  | S5-194413 |
| S5-194234 | pCR 28.861 Beam optimization in CCO | Ericsson | revised |  | S5-194520 |
| S5-194235 | Rel-16 CR 28.532 Remove Notification notifyPotentialFaultyAlarmList | China Mobile Com. Corporation, ZTE | not pursued |  |  |
| S5-194236 | CR Rel-16 TS 28.550 Procedure of NSI performance assurance | Huawei Tech.(UK) Co., Ltd | not pursued |  | - |
| S5-194237 | Rel-15 CR 28.532 Remove Notification notifyPotentialFaultyAlarmList | China Mobile Com. Corporation, ZTE | not pursued |  |  |
| S5-194238 | Rel-15 CR TS 28.550 Update performance assurance service component for NRM based measurement control MnS | Huawei | revised |  | S5-194463 |
| S5-194239 | Rel-16 CR TS 28.551 Update performance assurance service component for NRM based measurement control MnS | Huawei | revised |  | S5-194464 |
| S5-194240 | pCR 28.861 Add Use Case for ANR Management | Ericsson | noted |  | - |
| S5-194241 | Rel-16 CR 28.532 Remove Operation setComment | China Mobile Com. Corporation, ZTE | not pursued |  |  |
| S5-194242 | Rel-15 CR 28.532 Remove Operation setComment | China Mobile Com. Corporation, ZTE | not pursued |  |  |
| S5-194243 | Rel-16 CR 28.532 Remove Notification notifyComments | China Mobile Com. Corporation, ZTE | not pursued |  |  |
| S5-194244 | Rel-15 CR 28.532 Remove Notification notifyComments | China Mobile Com. Corporation, ZTE | not pursued |  |  |
| S5-194245 | LS reply from SA5 to CT3 on Requirements on Volume Based Charging | China Mobile | revised |  | S5-194321 |
| S5-194246 | Rel-16 CR TS 28.552 Restructure QoS flow related measurements | Huawei | not pursued |  |  |
| S5-194247 | pCR 28.805 Solution for CSI termination | Huawei | revised |  | S5-194490 |
| S5-194248 | pCR 28.805 Solution for CSI modification | Huawei | revised |  | S5-194491 |
| S5-194249 | pCR 28.805 Solution for CSI activation | Huawei | revised |  | S5-194492 |
| S5-194250 | pCR 28.805 Solution for CSI de-activation | Huawei | revised |  | S5-194493 |
| S5-194251 | pCR 28.805 Solution for exposure of CSI management capability | Huawei | noted |  |  |
| S5-194252 | Overview of the 5G specification structure | Huawei | revised |  | S5-194393 |
| S5-194253 | Discussion on the management terminologies | Huawei | revised |  | S5-194394 |
| S5-194254 | Overview of the 5G management solution set | Huawei | revised |  | S5-194395 |
| S5-194255 | Discussion on KPI e2e latency of 5G network | Huawei | noted |  |  |
| S5-194256 | Discussion of identifiers | Huawei | noted |  |  |
| S5-194257 | Rel-15 CR TS 28.531 Add the identifier description | Huawei | revised |  | S5-194462 |
| S5-194258 | Support NF Profile management | Nokia, Nokia Shanghai Bell | revised |  | S5-194457 |
| S5-194259 | TD Radio resource management policy | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-194260 | TD Broadcasting cell quality issue | Nokia, Nokia Shanghai Bell | revised |  | S5-194480 |
| S5-194261 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | revised |  | S5-194481 |
| S5-194262 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-194263 | Rel 15 Fix NR NRM to add missed ID info | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-194264 | Rel 16 Fix NR NRM to add missed ID info | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-194265 | generate JSON definition for generic NRM based on new style guideline | Nokia, Nokia Shanghai Bell | revised |  | S5-194467 |
| S5-194266 | generate JSON definition for NR NRM based on new style guideline | Nokia, Nokia Shanghai Bell | revised |  | S5-194468 |
| S5-194267 | generate JSON definition for Network Slice NRM based on new style guideline | Nokia, Nokia Shanghai Bell | revised |  | S5-194469 |
| S5-194268 | generate JSON definition for 5GC NRM based on new style guideline | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-194269 | Revised NRM enhancements WI | Nokia, Nokia Shanghai Bell | revised |  | S5-194459 |
| S5-194270 | LS on radio resource management policy | Nokia, Nokia Shanghai Bell | revised |  | S5-194458 |
| S5-194271 | NSI modification information to NSI NFs | Huawei | noted |  |  |
| S5-194272 | JSON schema mapping rules | Nokia Germany | noted |  | - |
| S5-194273 | Basic structure of the JSON schema for the Generic NRM and 5G NRM | Nokia Germany | endorsed |  |  |
| S5-194274 | Discussion Paper around RAN RRM Policies | Ericsson Limited | noted |  |  |
| S5-194275 | LS on RRM policies placement | Ericsson Limited | merged |  | S5-194458 |
| S5-194276 | Rel-16 CR 28.554 Correction of Flow Retainability KPI | Ericsson Limited | revised |  | S5-194425 |
| S5-194277 | Usage of JSON schema by the ProvMnS | Nokia Germany | noted |  |  |
| S5-194278 | Rel-16 CR 28.554 Correction of DRB Accessibility KPI | Ericsson Limited | revised |  | S5-194426 |
| S5-194279 | Discussion paper around NR beam representation | Ericsson Limited | noted |  |  |
| S5-194280 | Discussion paper around Bursty and Continious flows | Ericsson Limited | noted |  |  |
| S5-194281 | Rel-15 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | revised |  | S5-194477 |
| S5-194282 | Rel-16 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | revised |  | S5-194478 |
| S5-194283 | Rel-15 CR 28.541 Remove pLMNId from GNBDUFunction | Ericsson Limited | agreed |  |  |
| S5-194284 | Rel-16 CR 28.541 Remove pLMNId from GNBDUFunction | Ericsson Limited | agreed |  |  |
| S5-194285 | Rel-16 pCR 32.845 Harmonizing the Solution evaluations | Ericsson | revised |  | S5-194354 |
| S5-194286 | Discussion paper on document skeleton and flow of contents for Intent driven Management services | Ericsson GmbH, Eurolab | noted |  |  |
| S5-194287 | pCR 28.812 Interaction with 3GPP management functions | Ericsson GmbH, Eurolab | revised |  | S5-194448 |
| S5-194288 | pCR 28.812 Re-structure and improve flow of contents | Ericsson GmbH, Eurolab | revised |  | S5-194447 |
| S5-194289 | pCR 28.861 Active Antenna Support Optimization | Ericsson | revised |  | S5-194521 |
| S5-194290 | TD support ORAN parameters in NRM | Nokia, Nokia Shanghai Bell | revised |  | S5-194460 |
| S5-194291 | Report of the 3-days meeting on JSON/YANG solution june 2019 | Ericsson-LG Co., LTD | revised |  | S5-194436 |
| S5-194292 | pCR R16 28.405-060 Editor's clean up | Ericsson | approved |  |  |
| S5-194293 | pCR 28.806 Concepts and background | Nokia, AT&T | revised |  | S5-194314 |
| S5-194294 | pCR R16 28.404-100 Remove the Symbols clause | Ericsson | approved |  |  |
| S5-194295 | pCR R16 28.404-100 Actor roles | Ericsson | approved |  |  |
| S5-194296 | pCR 28.806 New Use Case on collecting Cell and UE data for analytics | Nokia, Orange, AT&T | revised |  | S5-194315 |
| S5-194297 | pCR R16 28.404-100 Telecommunication resources | Ericsson | approved |  |  |
| S5-194298 | pCR R16 28.405-060 Correction of Management based activation in UTRAN | Ericsson | revised |  | S5-194427 |
| S5-194299 | pCR R16 28.405-060 Deactivation of measurement job in UTRAN | Ericsson | approved |  |  |
| S5-194300 | pCR R16 28.405-060 Handling of handover in Signalling based activation in UTRAN | Ericsson | approved |  |  |
| S5-194301 | pCR 28.806 New Solution for non-file-based Trace reporting | Nokia, Orange | revised |  | S5-194316 |
| S5-194302 | pCR R16 28.405-060 Correction of Management based activation in LTE | Ericsson | approved |  |  |
| S5-194303 | S5-194xxx Presentation of Specification to TSG TS 32.160 | Ericsson India Private Limited | noted |  |  |
| S5-194304 | pCR 32.160 Correction of formatting of example tables | Ericsson India Private Limited | approved |  |  |
| S5-194305 | Discussion paper on Editors note W4.3.a.2 | Ericsson India Private Limited | noted |  |  |
| S5-194306 | pCR 28.805 Group use cases and requirements | Ericsson India Private Limited | approved |  |  |
| S5-194307 | pCR 28.805 Use case and requirement for management of multi-site communication service | Ericsson India Private Limited | revised |  | S5-194486 |
| S5-194308 | pCR 28.805 Adding clarification to NSaaS and resource layer clause 4.3 | Ericsson India Private Limited | revised |  | S5-194484 |
| S5-194309 | Discussion paper on MnS registration and discovery | Ericsson India Private Limited | revised |  | S5-194456 |
| S5-194310 | CR Rel-16 28.541 Add datatype definition for NfService stage 2 | Ericsson India Private Limited | not pursued |  | - |
| S5-194311 | CR 32.156 Update attribute properties table | Ericsson India Private Limited | not pursued |  | - |
| S5-194312 | Sequence proposal for study on management aspects of communication services | Ericsson India Private Limited | noted |  |  |
| S5-194313 | Sequence proposal for Methodology for 5G management specifications | Ericsson India Private Limited | noted |  |  |
| S5-194314 | pCR 28.806 Concepts and background | Nokia, AT&T, NEC | revised | S5-194293 | S5-194497 |
| S5-194315 | pCR 28.806 New Use Case on collecting Cell and UE data for analytics | Nokia, Orange, AT&T, NEC | approved | S5-194296 |  |
| S5-194316 | pCR 28.806 New Solution for non-file-based Trace reporting | Nokia, Orange, NEC | approved | S5-194301 |  |
| S5-194317 | Rel-16 pCR 32.845 Performance based charging - NWDAF solution | Nokia, Nokia Shanghai Bell | revised |  | S5-194353 |
| S5-194318 | Rel-16 pCR 32.160 v120 YANG style guide | Ericsson-LG Co., LTD | revised | S5-194192 | S5-194437 |
| S5-194319 | Communication service instances realized in multiple network slice instance | Samsung R&D Institute UK | noted | S5-194067 | - |
| S5-194320 | Reply LS to GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | Ericsson | withdrawn |  |  |
| S5-194321 | Reply to: LS from CT3 to SA5 on Requirements on Volume Based Charging | China Mobile | approved | S5-194245 |  |
| S5-194322 | Rel-16 CR 32.255 Introduce offline only determination by SMF | Nokia, Nokia Shanghai Bell | agreed | S5-194043 |  |
| S5-194323 | Rel-16 CR 32.290 Add offline olny charging service message content | Huawei | agreed | S5-194109 |  |
| S5-194324 | Rel-16 CR 32.291 Correct Offline only charging service API resource definition | Huawei | agreed | S5-194110 |  |
| S5-194325 | Rel-16 CR 32.291 Add 5G Data Connectivity Specified Data Type for Offline only charging service API data model | Huawei | agreed | S5-194111 |  |
| S5-194326 | Rel-16 CR 32.291 Add Simple data types and enumerations for Offline only charging service API data model | Huawei | agreed | S5-194112 |  |
| S5-194327 | Rel-16 CR 32.291 Add Bindings of common CDR field for Offline only charging service API | Huawei | agreed | S5-194113 |  |
| S5-194328 | Rel-16 CR 32.291 Add Offline only charging open API schema | Huawei | agreed | S5-194114 |  |
| S5-194329 | Rel-16 CR 32.255 clarification for EPC interworking triggers | Huawei | agreed | S5-194090 |  |
| S5-194330 | Rel-16 CR 32.255 EPC interworking call flow correction | Huawei | agreed | S5-194091 |  |
| S5-194331 | Rel-16 CR 32.255 Message flow for 5GS and EPC interworking | Huawei | agreed | S5-194095 |  |
| S5-194332 | Rel-16 CR 32.255 Modify the Charging ID | Huawei | agreed | S5-194093 |  |
| S5-194333 | Rel-16 CR 32.291 Modify the Charging ID | Huawei | agreed | S5-194094 |  |
| S5-194334 | Rel-16 CR 32.298 Definition of charging parameter for interworking with EPC | Huawei | agreed | S5-194097 |  |
| S5-194335 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | agreed | S5-194098 |  |
| S5-194336 | Rel-16 CR 32.291 Update Open API for interworking | HUAWEI | agreed | S5-194224 |  |
| S5-194337 | Rel-16 pCR 32.256 CHF selection and AMFcharging characteristics | Nokia, Nokia Shanghai Bell | approved | S5-194044 |  |
| S5-194338 | Rel-16 pCR 32.256 Use of IEC in clause 5.2 | Ericsson | approved | S5-194195 |  |
| S5-194339 | Rel-16 pCR 32.256 Introduction of non-3GPP access | Nokia, Nokia Shanghai Bell | approved | S5-194047 |  |
| S5-194340 | Rel-16 pCR 32.256 Update Charging Information | Nokia, Nokia Shanghai Bell | approved | S5-194049 |  |
| S5-194341 | Rel-16 pCR 32.256 Update of charging data | Ericsson | approved | S5-194197 |  |
| S5-194342 | Rel-16 pCR 32.256 Introduce location flows | Nokia, Nokia Shanghai Bell | approved | S5-194048 |  |
| S5-194343 | Draft TS 32.256 | Nokia | approved |  |  |
| S5-194344 | Rel-16 pCR TR 32.845 clarify on the performance data and capacity | Huawei | approved | S5-194101 |  |
| S5-194345 | Rel-16 pCR TR 32.845 clarify on the performance data and KPI | Huawei | approved | S5-194102 |  |
| S5-194346 | Rel-16 pCR 32.845 New topic - Network Slice Management | Nokia, Nokia Shanghai Bell | approved | S5-194051 |  |
| S5-194347 | Rel-16 pCR 32.845 Network Slice Management charging - solution | Nokia, Nokia Shanghai Bell | approved | S5-194053 |  |
| S5-194348 | Rel-16 pCR TR 32.845 Addition of solution evaluation and conclusion for usage based charging | Huawei | approved | S5-194100 |  |
| S5-194349 | Rel-16 pCR TR 32.845 Addition of use case and potential charging requirements for B2B | Huawei | approved | S5-194104 |  |
| S5-194350 | Rel-16 pCR TR 32.845 key issues and solution for usage limit | Huawei | approved | S5-194103 |  |
| S5-194351 | Rel-16 pCR TR 32.845 Discussion Paper on the Business Model of Network Slice Charging | Huawei | noted | S5-194108 |  |
| S5-194352 | Rel-16 pCR TR 32.845 Add a new topic for Business to Consumer (B2C) | Huawei | agreed | S5-194105 |  |
| S5-194353 | Rel-16 pCR 32.845 Performance based charging - NWDAF solution | Nokia, Nokia Shanghai Bell | agreed | S5-194317 |  |
| S5-194354 | Rel-16 pCR 32.845 Harmonizing the Solution evaluations | Ericsson | approved | S5-194285 |  |
| S5-194355 | Rel-16 pCR TR 32.845 Add the solution evaluation for performance based charging | HUAWEI | noted | S5-194115 |  |
| S5-194356 | Draft TR 32.845 | Huawei | approved |  |  |
| S5-194357 | Rel-16 pCR 32.256 IEC introduction | Nokia, Nokia Shanghai Bell | approved | S5-194045 |  |
| S5-194358 | Rel-16 pCR 32.256 Registration AMF re-allocation and SMS | Nokia, Nokia Shanghai Bell | approved | S5-194046 |  |
| S5-194359 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | agreed | S5-194096 |  |
| S5-194360 | Tdoc status list | Charging SWG Chair (Nokia) | available |  |  |
| S5-194361 | Reserved for Charging 42 | Charging SWG | withdrawn |  |  |
| S5-194362 | Reserved for Charging 43 | Charging SWG | withdrawn |  |  |
| S5-194363 | Reserved for Charging 44 | Charging SWG | withdrawn |  |  |
| S5-194364 | Reserved for Charging 45 | Charging SWG | withdrawn |  |  |
| S5-194365 | Reserved for Charging 46 | Charging SWG | withdrawn |  |  |
| S5-194366 | Reserved for Charging 47 | Charging SWG | withdrawn |  |  |
| S5-194367 | Reserved for Charging 48 | Charging SWG | withdrawn |  |  |
| S5-194368 | Reserved for Charging 49 | Charging SWG | withdrawn |  |  |
| S5-194369 | Reserved for Charging 50 | Charging SWG | withdrawn |  |  |
| S5-194370 | Reserved for Charging 51 | Charging SWG | withdrawn |  |  |
| S5-194371 | Reserved for Charging 52 | Charging SWG | withdrawn |  |  |
| S5-194372 | Reserved for Charging 53 | Charging SWG | withdrawn |  |  |
| S5-194373 | Reserved for Charging 54 | Charging SWG | withdrawn |  |  |
| S5-194374 | Reserved for Charging 55 | Charging SWG | withdrawn |  |  |
| S5-194375 | Reserved for Charging 56 | Charging SWG | withdrawn |  |  |
| S5-194376 | Reserved for Charging 57 | Charging SWG | withdrawn |  |  |
| S5-194377 | Reserved for Charging 58 | Charging SWG | withdrawn |  |  |
| S5-194378 | Reserved for Charging 59 | Charging SWG | withdrawn |  |  |
| S5-194379 | Reserved for Charging 60 | Charging SWG | withdrawn |  |  |
| S5-194380 | Reserved for Charging 61 | Charging SWG | withdrawn |  |  |
| S5-194381 | Reserved for Charging 62 | Charging SWG | withdrawn |  |  |
| S5-194382 | Reserved for Charging 63 | Charging SWG | withdrawn |  |  |
| S5-194383 | Reserved for Charging 64 | Charging SWG | withdrawn |  |  |
| S5-194384 | Reserved for Charging 65 | Charging SWG | withdrawn |  |  |
| S5-194385 | Reserved for Charging 66 | Charging SWG | withdrawn |  |  |
| S5-194386 | Reserved for Charging 67 | Charging SWG | withdrawn |  |  |
| S5-194387 | Reserved for Charging 68 | Charging SWG | withdrawn |  |  |
| S5-194388 | Reserved for Charging 69 | Charging SWG | withdrawn |  |  |
| S5-194389 | Reserved for Charging 70 | Charging SWG | withdrawn |  |  |
| S5-194390 | OAM time plan | WG Vice Chair (Huawei) | noted | S5-194004 | - |
| S5-194391 | Rel-15 CR 28623 v1520 Add Generic NRM IRP solution sets | Ericsson-LG Co., LTD | agreed | S5-194163 | - |
| S5-194392 | Rel-15 CR 28541 v1530 YANG solution | Ericsson-LG Co., LTD | revised | S5-194190 | S5-194523 |
| S5-194393 | Overview of the 5G specification structure | Huawei | noted | S5-194252 | - |
| S5-194394 | Discussion on the management terminologies | Huawei | endorsed | S5-194253 | - |
| S5-194395 | Overview of the 5G management solution set | Huawei | revised | S5-194254 | S5-194522 |
| S5-194396 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | revised | S5-194086 | S5-194419 |
| S5-194397 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | revised | S5-194087 | S5-194420 |
| S5-194398 | Rel-15 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | merged | S5-194117 | S5-194413 |
| S5-194399 | Rel-16 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | merged | S5-194118 | S5-194414 |
| S5-194400 | Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service | Intel Corporation (UK) Ltd | revised | S5-194124 | S5-194534 |
| S5-194401 | Sequence of pCR discussion | Intel | noted | - | - |
| S5-194402 | Tdoc discussion sequence | Rapporteur (Intel) | noted | - | - |
| S5-194403 | Rel-15 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | agreed | S5-194130 | - |
| S5-194404 | Rel-15 CR TS 28.541 Correct description for NR deployment scenario | Huawei | agreed | S5-194128 | - |
| S5-194405 | Rel-16 CR TS 28.541 Correct description for NR deployment scenario | Huawei | agreed | S5-194129 | - |
| S5-194406 | Rel-16 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | agreed | S5-194131 | - |
| S5-194407 | S5-Sapporo CR Rel-15 28541 v1530 Correct style for enumeration literals | Ericsson-LG Co., LTD | agreed | S5-194143 | - |
| S5-194408 | Rel-15 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | withdrawn | - | - |
| S5-194409 | Rel-16 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | withdrawn | - | - |
| S5-194410 | Rel-15 CR TS 28.552 Correction on kbits abbreviation | Huawei | agreed | S5-194158 | - |
| S5-194411 | Rel-16 CR TS 28.552 Correction on kbits abbreviation | Huawei | agreed | S5-194159 | - |
| S5-194412 | Rel-15 CR 28622 V1520 Clarify optional configurable PM | Ericsson-LG Co., LTD | agreed | S5-194162 | - |
| S5-194413 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | agreed | S5-194193 | - |
| S5-194414 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | agreed | S5-194194 | - |
| S5-194415 | Rel-15 CR TS 28.550 Remove the PM file format | Huawei | agreed | S5-194211 | - |
| S5-194416 | Rel-16 CR TS 28.550 Remove the PM file format | Huawei | agreed | S5-194212 | - |
| S5-194417 | Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming | Intel Corporation (UK) Ltd | revised | S5-194116 | S5-194535 |
| S5-194418 | CR Rel-16 TS 28.550 Procedure of NSI performance assurance | Huawei Tech.(UK) Co., Ltd | withdrawn | - | - |
| S5-194419 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | revised | S5-194396 | S5-194537 |
| S5-194420 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | revised | S5-194397 | S5-194538 |
| S5-194421 | Rel-16 CR 28.552 Add measurements related SMS over NAS | Intel Corporation (UK) Ltd | agreed | S5-194126 | - |
| S5-194422 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | revised | S5-194169 | S5-194536 |
| S5-194423 | CR Rel-16 28.552 Add measurement of paging | Huawei | agreed | S5-194171 | - |
| S5-194424 | CR Rel-16 28.552 Update performance measurements for UDM | Huawei | agreed | S5-194172 | - |
| S5-194425 | Rel-16 CR 28.554 Correction of Flow Retainability KPI | Ericsson Limited | agreed | S5-194276 | - |
| S5-194426 | Rel-16 CR 28.554 Correction of DRB Accessibility KPI | Ericsson Limited | agreed | S5-194278 | - |
| S5-194427 | pCR R16 28.405-060 Correction of Management based activation in UTRAN | Ericsson | approved | S5-194298 | - |
| S5-194428 | Add Policy management procedures | China Mobile Com. Corporation | approved | S5-194076 | - |
| S5-194429 | Add description and interface definition of creating a policy | China Mobile Com. Corporation | approved | S5-194077 | - |
| S5-194430 | Add description and interface definition of deleting a policy | China Mobile Com. Corporation | approved | S5-194078 | - |
| S5-194431 | Add description and interface definition of updating a policy | China Mobile Com. Corporation | approved | S5-194079 | - |
| S5-194432 | Add description and interface definition of querying a policy | China Mobile Com. Corporation | approved | S5-194080 | - |
| S5-194433 | Add description and interface definition of activating a policy | China Mobile Com. Corporation | approved | S5-194081 | - |
| S5-194434 | Add description and interface definition of deactivating a policy | China Mobile Com. Corporation | approved | S5-194082 | - |
| S5-194435 | Add interface definition of reporting policy conflicts | China Mobile Com. Corporation | approved | S5-194083 | - |
| S5-194436 | Report of the 3-days meeting on JSON/YANG solution june 2019 | Ericsson-LG Co., LTD | noted | S5-194291 | - |
| S5-194437 | Rel-16 pCR 32.160 v120 YANG style guide | Ericsson-LG Co., LTD | approved | S5-194318 | - |
| S5-194438 | JSON schema mapping rules | Nokia Germany | withdrawn | - | - |
| S5-194439 | Discussion paper on description of inherited attributes | Huawei | revised | S5-194217 | S5-194539 |
| S5-194440 | CR 32.156 Update attribute properties table | Ericsson India Private Limited | withdrawn | - | - |
| S5-194441 | pCR 28.812 Add concept of intent driven management for area network | Huawei | revised | S5-194135 | S5-194541 |
| S5-194442 | pCR 28.812 Update clause 4.1.1 Introduction | Huawei | noted | S5-194136 | - |
| S5-194443 | pCR 28.812 Add solution for Cell rehoming | Huawei | withdrawn | - | - |
| S5-194444 | pCR 28.812 Add solution for area load balance | Huawei | approved | S5-194138 | - |
| S5-194445 | pCR 28.812 Update lifecycle management of intent | Huawei | approved | S5-194139 | - |
| S5-194446 | pCR 28.812 Update concept of intent translation | Huawei | approved | S5-194140 | - |
| S5-194447 | pCR 28.812 Re-structure and improve flow of contents | Ericsson GmbH, Eurolab | approved | S5-194288 | - |
| S5-194448 | pCR 28.812 Interaction with 3GPP management functions | Ericsson GmbH, Eurolab | revised | S5-194287 | S5-194540 |
| S5-194449 | CR Rel-16 TS 28.533 Add table of management capabilities offered by various management service instances | Huawei | not pursued | S5-194181 | - |
| S5-194450 | CR Rel-16 TS 28.533 Add use case discovery of MnS access information and related requirements | Huawei | not pursued | S5-194183 | - |
| S5-194451 | CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement | Huawei | revised | S5-194184 | S5-194542 |
| S5-194452 | CR Rel-16 TS 28.533 Add use case management scopes in exposure governance and related requirements | Huawei | not pursued | S5-194185 | - |
| S5-194453 | CR Rel-16 TS 28.533 Add use case 3rd party MnS consumer authentication and authorization, and related requirements | Huawei | not pursued | S5-194186 | - |
| S5-194454 | Discussion paper TS 23.222 CAPIF for management service discovery and exposure governance stage 2 | Huawei | noted | S5-194187 | - |
| S5-194455 | CR Rel-16 TS 28.533 Add use case for reqesting access to MnS | Huawei Tech.(UK) Co., Ltd | not pursued | S5-194220 | - |
| S5-194456 | Discussion paper on MnS registration and discovery | Ericsson India Private Limited | endorsed | S5-194309 | - |
| S5-194457 | Support NF Profile management | Nokia, Nokia Shanghai Bell | agreed | S5-194258 | - |
| S5-194458 | LS on radio resource management policy | Nokia, Nokia Shanghai Bell | approved | S5-194270 | - |
| S5-194459 | Revised NRM enhancements WI | Nokia, Nokia Shanghai Bell | agreed | S5-194269 | - |
| S5-194460 | TD support ORAN parameters in NRM | Nokia, Nokia Shanghai Bell | endorsed | S5-194290 | - |
| S5-194461 | CR Rel-16 28.541 Add datatype definition for NfService stage 2 | Ericsson India Private Limited | withdrawn | - | - |
| S5-194462 | Rel-15 CR TS 28.531 Add the identifier description | Huawei | agreed | S5-194257 | - |
| S5-194463 | Rel-15 CR TS 28.550 Update performance assurance service component for NRM based measurement control MnS | Huawei | not pursued | S5-194238 | - |
| S5-194464 | Rel-16 CR TS 28.551 Update performance assurance service component for NRM based measurement control MnS | Huawei | not pursued | S5-194239 | - |
| S5-194465 | LS from GSMA on NG116 Publication and GST Co-operation with 3GPP SA5 | GSMA | postponed | - | - |
| S5-194466 | Discussion paper MnS exposure governance potential role in OAuth 2.0 framework | Huawei | noted | S5-194182 | - |
| S5-194467 | generate JSON definition for generic NRM based on new style guideline | Nokia, Nokia Shanghai Bell | agreed | S5-194265 | - |
| S5-194468 | generate JSON definition for NR NRM based on new style guideline | Nokia, Nokia Shanghai Bell | agreed | S5-194266 | - |
| S5-194469 | generate JSON definition for Network Slice NRM based on new style guideline | Nokia, Nokia Shanghai Bell | agreed | S5-194267 | - |
| S5-194470 | pCR 28.803 use case for configuration management to support edge computing | Intel Corporation (UK) Ltd | approved | S5-194054 | - |
| S5-194471 | pCR 28.803 solution of AF to access NEF | Intel Corporation (UK) Ltd | approved | S5-194056 | - |
| S5-194472 | pCR 28.803 revise the conclusion | Intel Corporation (UK) Ltd | approved | S5-194057 | - |
| S5-194473 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT | not pursued | S5-194216 | - |
| S5-194474 | pCR 28.804 Management capability of tenant | Huawei | noted | S5-194164 | - |
| S5-194475 | pCR 28.804 EGMF in multiple tenants environment | Huawei | noted | S5-194165 | - |
| S5-194476 | pCR 28.804 Management resource for tenant | Huawei | approved | S5-194166 | - |
| S5-194477 | Rel-15 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | agreed | S5-194281 | - |
| S5-194478 | Rel-16 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | agreed | S5-194282 | - |
| S5-194479 | pCR 28.804 Use cases of management capability for tenant | Huawei | noted | S5-194167 | - |
| S5-194480 | TD Broadcasting cell quality issue | Nokia, Nokia Shanghai Bell | endorsed | S5-194260 | - |
| S5-194481 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | agreed | S5-194261 | - |
| S5-194482 | pCR 28.804 Add potential solutions for performance measurement | Huawei | revised | S5-194168 | S5-194543 |
| S5-194483 | pCR 28.805 Service QoE in Communication Service Management | Huawei | approved | S5-194188 | - |
| S5-194484 | pCR 28.805 Adding clarification to NSaaS and resource layer clause 4.3 | Ericsson India Private Limited,DT | approved | S5-194308 | - |
| S5-194485 | Communication service instances realized in multiple network slice instance | Samsung R&D Institute UK | withdrawn | - | - |
| S5-194486 | pCR 28.805 Use case and requirement for management of multi-site communication service | Ericsson India Private Limited,DT | approved | S5-194307 | - |
| S5-194487 | pCR 28.805 Clarification on UC of a CSI utilizing multiple NSIs | Huawei | noted | S5-194231 | - |
| S5-194488 | pCR 28.805 Solution for MDA-Assisted network optimization | Huawei | revised | S5-194229 | S5-194544 |
| S5-194489 | pCR 28.805 Solution for translation of SLA into SLA requirements | Huawei | approved | S5-194230 | - |
| S5-194490 | pCR 28.805 Solution for CSI termination | Huawei | approved | S5-194247 | - |
| S5-194491 | pCR 28.805 Solution for CSI modification | Huawei | approved | S5-194248 | - |
| S5-194492 | pCR 28.805 Solution for CSI activation | Huawei | approved | S5-194249 | - |
| S5-194493 | pCR 28.805 Solution for CSI de-activation | Huawei | approved | S5-194250 | - |
| S5-194494 | pCR 28.805 Editorial changes | Huawei | approved | S5-194226 | - |
| S5-194495 | LS reply on PCF and NEF discovery for Edge Computing | S2-1904837 | postponed | - | - |
| S5-194496 | pCR 28.806 Scope clause content | Nokia | approved | S5-194221 | - |
| S5-194497 | pCR 28.806 Concepts and background | Nokia, AT&T, NEC | approved | S5-194314 | - |
| S5-194498 | pCR 28.861 addition and revision of ANR related use cases | Intel Corporation (UK) Ltd, Verizon UK Ltd, Cisco, ETRI | noted | S5-194058 | - |
| S5-194499 | pCR 28.805 Procedure of NSI performance assurance | Huawei | noted | - | - |
| S5-194500 | pCR 28.861 Add Use Case for ANR Management | Ericsson | withdrawn | - | - |
| S5-194501 | pCR 28.861 solution for automatic neighbor relation | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | noted | S5-194059 | - |
| S5-194502 | pCR 28.861 add use case for load balancing optimization | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | approved | S5-194061 | - |
| S5-194503 | pCR 28.861 revise use case for PCI configuration | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | noted | S5-194062 | - |
| S5-194504 | pCR 28.803 solution for PCI configuration | Intel Corporation (UK) Ltd, Verizon UK Ltd, ETRI | noted | S5-194063 | - |
| S5-194505 | pCR 28.861 updating usecase and requirements for self-establishment of 3GPP NF | China Telecommunications, Huawei | approved | S5-194064 | - |
| S5-194506 | Minutes of Discovery of management services in 5G | Rapporteur (Huawei) | noted | S5-194015 | - |
| S5-194507 | pCR 28.861 Add overview of potential solution for CCO | Huawei | noted | S5-194068 | - |
| S5-194508 | CR Rel-8 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194173 | - |
| S5-194509 | CR Rel-9 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194174 | - |
| S5-194510 | CR Rel-10 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194175 | - |
| S5-194511 | CR Rel-11 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194176 | - |
| S5-194512 | CR Rel-12 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194177 | - |
| S5-194513 | CR Rel-13 32.426 Correct description of measurement KPI of paging | Huawei | withdrawn | - | - |
| S5-194514 | CR Rel-14 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194179 | - |
| S5-194515 | CR Rel-15 32.426 Correct description of measurement KPI of paging | Huawei | not pursued | S5-194180 | - |
| S5-194516 | pCR 28.861 Add potential solution for Centralized CCO | Huawei | approved | S5-194072 | - |
| S5-194517 | pCR 28.861 Update use case and requirements for Multi-vendor Plug and Play of NFs | Huawei | approved | S5-194070 | - |
| S5-194518 | pCR 28.861 Update Use case and requirements for Automatic Radio Network Configuration Data Handling | Huawei | approved | S5-194071 | - |
| S5-194519 | pCR 28.861 Add potential solution for self-establishment of NFs | Huawei | approved | S5-194074 | - |
| S5-194520 | pCR 28.861 Beam optimization in CCO | Ericsson | approved | S5-194234 | - |
| S5-194521 | pCR 28.861 Active Antenna Support Optimization | Ericsson | approved | S5-194289 | - |
| S5-194522 | Overview of the 5G management solution set | Huawei | endorsed | S5-194395 | - |
| S5-194523 | Rel-15 CR 28541 v1530 YANG solution | Ericsson-LG Co., LTD | agreed | S5-194392 | - |
| S5-194524 | Draft TS 28.404 | Ericsson | approved | - | - |
| S5-194525 | Draft TS 28.405 | Ericsson | approved | - | - |
| S5-194526 | Draft TS 28.311 | China Mobile | approved | - | - |
| S5-194527 | Draft TS 32.160 | Ericsson | approved | - | - |
| S5-194528 | Draft TR 28.812 | Huawei | approved | - | - |
| S5-194529 | Draft TR 28.803 | Intel | approved | - | - |
| S5-194530 | Draft TR 28.804 | Huawei | approved | - | - |
| S5-194531 | Draft TR 28.805 | Ericsson | approved | - | - |
| S5-194532 | Draft TR 28.806 | Nokia | approved | - | - |
| S5-194533 | Draft TR 28.861 | Intel | approved | - | - |
| S5-194534 | Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service | Intel Corporation (UK) Ltd | agreed | S5-194400 | - |
| S5-194535 | Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming | Intel Corporation (UK) Ltd | agreed | S5-194417 | - |
| S5-194536 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | revised | S5-194422 | S5-194545 |
| S5-194537 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | agreed | S5-194419 | - |
| S5-194538 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | agreed | S5-194420 | - |
| S5-194539 | Discussion paper on description of inherited attributes | Huawei | endorsed | S5-194439 | - |
| S5-194540 | pCR 28.812 Interaction with 3GPP management functions | Ericsson GmbH, Eurolab | approved | S5-194448 | - |
| S5-194541 | pCR 28.812 Add concept of intent driven management for area network | Huawei | approved | S5-194441 | - |
| S5-194542 | CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement | Huawei | not pursued | S5-194451 | - |
| S5-194543 | pCR 28.804 Add potential solutions for performance measurement | Huawei | approved | S5-194482 | - |
| S5-194544 | pCR 28.805 Solution for MDA-Assisted network optimization | Huawei | approved | S5-194488 | - |
| S5-194545 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | agreed | S5-194536 | - |
| S5-194546 | OAM&P SWG action list | WG Vice Chair (Huawei) | noted | S5-194006 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-194144 | Rel-15 CR TS 28.531 Update the incorrect reference | Huawei | 28.531 | 0021 | - | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-194145 | Rel-16 CR TS 28.531 Update the incorrect reference | Huawei | 28.531 | 0022 | - | Rel-16 | A | NETSLICE-PRO\_NS | agreed |
| S5-194257 | Rel-15 CR TS 28.531 Add the identifier description | Huawei | 28.531 | 0023 | - | Rel-15 | F | LTE\_CA\_C\_B41\_PC2-UEConTest | revised |
| S5-194462 | Rel-15 CR TS 28.531 Add the identifier description | Huawei | 28.531 | 0023 | 1 | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-194117 | Rel-15 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | 28.532 | 0032 | - | Rel-15 | F | NETSLICE | revised |
| S5-194398 | Rel-15 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | 28.532 | 0032 | 1 | Rel-15 | F | NETSLICE | merged |
| S5-194118 | Rel-16 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | 28.532 | 0033 | - | Rel-16 | A | NETSLICE | revised |
| S5-194399 | Rel-16 CR 28.532 Add missing stage 3 solutions for performance data file reporting service | Intel Corporation (UK) Ltd | 28.532 | 0033 | 1 | Rel-16 | A | NETSLICE | merged |
| S5-194119 | Rel-16 CR 28.532 Add missing stage 3 solutions for performance threshold monitoring service | Intel Corporation (UK) Ltd | 28.532 | 0034 | - | Rel-16 | B | 5G\_SLICE\_ePA | merged |
| S5-194132 | Rel-15 CR TS 28.532 Add RESTful HTTP-based solution set for file-based performance assurance MnS | Huawei | 28.532 | 0035 | - | Rel-15 | F | NETSLICE | merged |
| S5-194133 | Rel-16 CR TS 28.532 Add RESTful HTTP-based solution set for file-based performance assurance MnS | Huawei | 28.532 | 0036 | - | Rel-16 | A | NETSLICE | merged |
| S5-194193 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | 28.532 | 0037 | - | Rel-15 | F | NETSLICE | revised |
| S5-194413 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | 28.532 | 0037 | 1 | Rel-15 | F | NETSLICE | agreed |
| S5-194194 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | 28.532 | 0038 | - | Rel-16 | A | NETSLICE | revised |
| S5-194414 | Global reorganization plus correcting operation names and wrong references | AT&T, Huawei, Orange | 28.532 | 0038 | 1 | Rel-16 | A | NETSLICE | agreed |
| S5-194209 | Rel-15 CR TS 28.532 Align the PM file format by copying the file format from TS 28.550 | Huawei | 28.532 | 0039 | - | Rel-15 | F | NETSLICE | merged |
| S5-194210 | Rel-16 CR TS 28.532 Align the PM file format by copying the file format from TS 28.550 | Huawei | 28.532 | 0040 | - | Rel-16 | A | NETSLICE | merged |
| S5-194225 | Rel-16 CR 28.532 Add management service of Operation getAlarmCount | China Mobile Com. Corporation, ZTE | 28.532 | 0041 | - | Rel-16 | F | NETSLICE-FS5G | merged |
| S5-194233 | Rel-15 CR 28.532 Add management service of Operation getAlarmCount | China Mobile, ZTE | 28.532 | 0042 | - | Rel-15 | A | NETSLICE-FS5G | merged |
| S5-194235 | Rel-16 CR 28.532 Remove Notification notifyPotentialFaultyAlarmList | China Mobile Com. Corporation, ZTE | 28.532 | 0043 | - | Rel-16 | F | NETSLICE-FS5G | not pursued |
| S5-194237 | Rel-15 CR 28.532 Remove Notification notifyPotentialFaultyAlarmList | China Mobile Com. Corporation, ZTE | 28.532 | 0044 | - | Rel-15 | F | NETSLICE-FS5G | not pursued |
| S5-194241 | Rel-16 CR 28.532 Remove Operation setComment | China Mobile Com. Corporation, ZTE | 28.532 | 0045 | - | Rel-16 | F | NETSLICE-FS5G | not pursued |
| S5-194242 | Rel-15 CR 28.532 Remove Operation setComment | China Mobile Com. Corporation, ZTE | 28.532 | 0046 | - | Rel-15 | A | NETSLICE-FS5G | not pursued |
| S5-194243 | Rel-16 CR 28.532 Remove Notification notifyComments | China Mobile Com. Corporation, ZTE | 28.532 | 0047 | - | Rel-16 | F | NETSLICE-FS5G | not pursued |
| S5-194244 | Rel-15 CR 28.532 Remove Notification notifyComments | China Mobile Com. Corporation, ZTE | 28.532 | 0048 | - | Rel-15 | F | NETSLICE-FS5G | not pursued |
| S5-194181 | CR Rel-16 TS 28.533 Add table of management capabilities offered by various management service instances | Huawei | 28.533 | 0019 | - | Rel-16 | B | 5GDMS | revised |
| S5-194449 | CR Rel-16 TS 28.533 Add table of management capabilities offered by various management service instances | Huawei | 28.533 | 0019 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-194183 | CR Rel-16 TS 28.533 Add use case discovery of MnS access information and related requirements | Huawei | 28.533 | 0020 | - | Rel-16 | B | 5GDMS | revised |
| S5-194450 | CR Rel-16 TS 28.533 Add use case discovery of MnS access information and related requirements | Huawei | 28.533 | 0020 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-194184 | CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement | Huawei | 28.533 | 0021 | - | Rel-16 | B | 5GDMS | revised |
| S5-194451 | CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement | Huawei | 28.533 | 0021 | 1 | Rel-16 | B | 5GDMS | revised |
| S5-194542 | CR Rel-16 TS 28.533 Add use case MnS capability query and related requirement | Huawei | 28.533 | 0021 | 2 | Rel-16 | B | 5GDMS | not pursued |
| S5-194185 | CR Rel-16 TS 28.533 Add use case management scopes in exposure governance and related requirements | Huawei | 28.533 | 0022 | - | Rel-16 | B | 5GDMS | revised |
| S5-194452 | CR Rel-16 TS 28.533 Add use case management scopes in exposure governance and related requirements | Huawei | 28.533 | 0022 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-194186 | CR Rel-16 TS 28.533 Add use case 3rd party MnS consumer authentication and authorization, and related requirements | Huawei | 28.533 | 0023 | - | Rel-16 | B | 5GDMS | revised |
| S5-194453 | CR Rel-16 TS 28.533 Add use case 3rd party MnS consumer authentication and authorization, and related requirements | Huawei | 28.533 | 0023 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-194220 | CR Rel-16 TS 28.533 Add use case for reqesting access to MnS | Huawei Tech.(UK) Co., Ltd | 28.533 | 0024 | - | Rel-16 | B | 5GDMS | revised |
| S5-194455 | CR Rel-16 TS 28.533 Add use case for reqesting access to MnS | Huawei Tech.(UK) Co., Ltd | 28.533 | 0024 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-194216 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT | 28.541 | 0051 | 5 | Rel-15 | C | NETSLICE-5GNRM | revised |
| S5-194473 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT | 28.541 | 0051 | 6 | Rel-15 | C | NETSLICE-5GNRM | not pursued |
| S5-194066 | SliceProfile Enhancement based on GSMA GST | Samsung R&D Institute UK | 28.541 | 0105 | - | Rel-16 | B | eNRM | not pursued |
| S5-194128 | Rel-15 CR TS 28.541 Correct description for NR deployment scenario | Huawei | 28.541 | 0106 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194404 | Rel-15 CR TS 28.541 Correct description for NR deployment scenario | Huawei | 28.541 | 0106 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194129 | Rel-16 CR TS 28.541 Correct description for NR deployment scenario | Huawei | 28.541 | 0107 | - | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-194405 | Rel-16 CR TS 28.541 Correct description for NR deployment scenario | Huawei | 28.541 | 0107 | 1 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-194130 | Rel-15 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | 28.541 | 0108 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194403 | Rel-15 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | 28.541 | 0108 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194131 | Rel-16 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | 28.541 | 0109 | - | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-194406 | Rel-16 CR TS 28.541 Correct NR NRM model to be applicable for management of all NG-RAN architecture | Huawei | 28.541 | 0109 | 1 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-194143 | S5-Sapporo CR Rel-15 28541 v1530 Correct style for enumeration literals | Ericsson-LG Co., LTD | 28.541 | 0110 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194407 | S5-Sapporo CR Rel-15 28541 v1530 Correct style for enumeration literals | Ericsson-LG Co., LTD | 28.541 | 0110 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194153 | Rel-15 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | 28.541 | 0111 | - | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-194154 | Rel-16 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | 28.541 | 0112 | - | Rel-16 | A | NETSLICE-5GNRM | not pursued |
| S5-194409 | Rel-16 CR TS 28.541 Correction on nSIIdList stage 2 and stage 3 | Huawei | 28.541 | 0112 | 1 | Rel-16 | A | NETSLICE-5GNRM | withdrawn |
| S5-194190 | Rel-15 CR 28541 v1530 YANG solution | Ericsson-LG Co., LTD | 28.541 | 0113 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194392 | Rel-15 CR 28541 v1530 YANG solution | Ericsson-LG Co., LTD | 28.541 | 0113 | 1 | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194523 | Rel-15 CR 28541 v1530 YANG solution | Ericsson-LG Co., LTD | 28.541 | 0113 | 2 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194258 | Support NF Profile management | Nokia, Nokia Shanghai Bell | 28.541 | 0114 | - | Rel-16 | C | eNRM | revised |
| S5-194457 | Support NF Profile management | Nokia, Nokia Shanghai Bell | 28.541 | 0114 | 1 | Rel-16 | C | eNRM | agreed |
| S5-194263 | Rel 15 Fix NR NRM to add missed ID info | Nokia, Nokia Shanghai Bell | 28.541 | 0115 | - | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-194264 | Rel 16 Fix NR NRM to add missed ID info | Nokia, Nokia Shanghai Bell | 28.541 | 0116 | - | Rel-16 | A | NETSLICE-5GNRM | not pursued |
| S5-194266 | generate JSON definition for NR NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.541 | 0117 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194468 | generate JSON definition for NR NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.541 | 0117 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194267 | generate JSON definition for Network Slice NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.541 | 0118 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194469 | generate JSON definition for Network Slice NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.541 | 0118 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194268 | generate JSON definition for 5GC NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.541 | 0119 | - | Rel-15 | F | NETSLICE-5GNRM | withdrawn |
| S5-194281 | Rel-15 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | 28.541 | 0120 | - | Rel-15 | F | eNRM | revised |
| S5-194477 | Rel-15 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | 28.541 | 0120 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194282 | Rel-16 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | 28.541 | 0121 | - | Rel-16 | A | eNRM | revised |
| S5-194478 | Rel-16 CR 28.541 Clarification of sNSSAIList attribute | Ericsson Limited | 28.541 | 0121 | 1 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-194283 | Rel-15 CR 28.541 Remove pLMNId from GNBDUFunction | Ericsson Limited | 28.541 | 0122 | - | Rel-15 | F | eNRM | agreed |
| S5-194284 | Rel-16 CR 28.541 Remove pLMNId from GNBDUFunction | Ericsson Limited | 28.541 | 0123 | - | Rel-16 | A | eNRM | agreed |
| S5-194310 | CR Rel-16 28.541 Add datatype definition for NfService stage 2 | Ericsson India Private Limited | 28.541 | 0124 | - | Rel-16 | B | eNRM | not pursued |
| S5-194461 | CR Rel-16 28.541 Add datatype definition for NfService stage 2 | Ericsson India Private Limited | 28.541 | 0124 | 1 | Rel-16 | B | eNRM | withdrawn |
| S5-194116 | Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming | Intel Corporation (UK) Ltd | 28.550 | 0009 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194417 | Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming | Intel Corporation (UK) Ltd | 28.550 | 0009 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194535 | Rel-16 CR 28.550 Add stage 3 solutions for performance data streaming | Intel Corporation (UK) Ltd | 28.550 | 0009 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194120 | Correction on StreamInfoList | Intel Corporation (UK) Ltd | 28.550 | 0010 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-194121 | Rel-15 Correction on peformance data file reporting service components | Intel Corporation (UK) Ltd | 28.550 | 0011 | - | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-194122 | Rel-16 Correction on peformance data file reporting service components | Intel Corporation (UK) Ltd | 28.550 | 0012 | - | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-194123 | Rel-16 Correction on peformance data streaming service components | Intel Corporation (UK) Ltd | 28.550 | 0013 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-194124 | Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service | Intel Corporation (UK) Ltd | 28.550 | 0014 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-194400 | Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service | Intel Corporation (UK) Ltd | 28.550 | 0014 | 1 | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-194534 | Rel-15 Add the missing stage 2 and stage 3 solutions for performance data streaming service | Intel Corporation (UK) Ltd | 28.550 | 0014 | 2 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-194211 | Rel-15 CR TS 28.550 Remove the PM file format | Huawei | 28.550 | 0015 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-194415 | Rel-15 CR TS 28.550 Remove the PM file format | Huawei | 28.550 | 0015 | 1 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-194212 | Rel-16 CR TS 28.550 Remove the PM file format | Huawei | 28.550 | 0016 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-194416 | Rel-16 CR TS 28.550 Remove the PM file format | Huawei | 28.550 | 0016 | 1 | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-194213 | Add use case and definitions of average round-trip user plane packet delay measurement between UE and UPF | ETRI | 28.550 | 0017 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-194214 | Add use case and definitions of user plane packet delay measurement between UE and UPF | ETRI | 28.550 | 0018 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-194236 | CR Rel-16 TS 28.550 Procedure of NSI performance assurance | Huawei Tech.(UK) Co., Ltd | 28.550 | 0019 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-194418 | CR Rel-16 TS 28.550 Procedure of NSI performance assurance | Huawei Tech.(UK) Co., Ltd | 28.550 | 0019 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-194238 | Rel-15 CR TS 28.550 Update performance assurance service component for NRM based measurement control MnS | Huawei | 28.550 | 0020 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-194463 | Rel-15 CR TS 28.550 Update performance assurance service component for NRM based measurement control MnS | Huawei | 28.550 | 0020 | 1 | Rel-15 | F | NETSLICE-ADPM5G | not pursued |
| S5-194239 | Rel-16 CR TS 28.551 Update performance assurance service component for NRM based measurement control MnS | Huawei | 28.550 | 0021 | - | Rel-16 | F | NETSLICE-ADPM5G | revised |
| S5-194464 | Rel-16 CR TS 28.551 Update performance assurance service component for NRM based measurement control MnS | Huawei | 28.550 | 0021 | 1 | Rel-16 | F | NETSLICE-ADPM5G | not pursued |
| S5-194088 | pCR 28.552 Add a descripment of Number of successful RRC Connections measurement | China Mobile Com. Corporation | 28.552 | 0087 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-194125 | Rel-16 CR 28.552 Add measurements related to application triggering | Intel Corporation (UK) Ltd | 28.552 | 0088 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194126 | Rel-16 CR 28.552 Add measurements related SMS over NAS | Intel Corporation (UK) Ltd | 28.552 | 0089 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194421 | Rel-16 CR 28.552 Add measurements related SMS over NAS | Intel Corporation (UK) Ltd | 28.552 | 0089 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194127 | Rel-16 CR 28.552 Correction of clause titles | Intel Corporation (UK) Ltd | 28.552 | 0090 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-194151 | Rel-15 CR TS 28.552 Correct the definition of Average delay DL air-interface measurement | ZTE, China Mobile | 28.552 | 0091 | - | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-194152 | Rel-16 CR TS 28.552 Correct the definition of Average delay DL air-interface measurement | ZTE, China Mobile | 28.552 | 0092 | - | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-194158 | Rel-15 CR TS 28.552 Correction on kbits abbreviation | Huawei | 28.552 | 0093 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-194410 | Rel-15 CR TS 28.552 Correction on kbits abbreviation | Huawei | 28.552 | 0093 | 1 | Rel-15 | F | TEI15 | agreed |
| S5-194159 | Rel-16 CR TS 28.552 Correction on kbits abbreviation | Huawei | 28.552 | 0094 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-194411 | Rel-16 CR TS 28.552 Correction on kbits abbreviation | Huawei | 28.552 | 0094 | 1 | Rel-16 | A | TEI15 | agreed |
| S5-194169 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | 28.552 | 0095 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194422 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | 28.552 | 0095 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194536 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | 28.552 | 0095 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194545 | CR Rel-16 28.552 Add measurement of SMF for N4 interface | Huawei | 28.552 | 0095 | 3 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194170 | CR Rel-16 28.552 Add measurement of UPF for N4 interface | Huawei | 28.552 | 0096 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194171 | CR Rel-16 28.552 Add measurement of paging | Huawei | 28.552 | 0097 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194423 | CR Rel-16 28.552 Add measurement of paging | Huawei | 28.552 | 0097 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194172 | CR Rel-16 28.552 Update performance measurements for UDM | Huawei | 28.552 | 0098 | - | Rel-16 | A | 5G\_SLICE\_ePA | revised |
| S5-194424 | CR Rel-16 28.552 Update performance measurements for UDM | Huawei | 28.552 | 0098 | 1 | Rel-16 | A | 5G\_SLICE\_ePA | agreed |
| S5-194246 | Rel-16 CR TS 28.552 Restructure QoS flow related measurements | Huawei | 28.552 | 0099 | - | Rel-16 | D | 5G\_SLICE\_ePA | not pursued |
| S5-194262 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | 28.552 | 0100 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-194086 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | 28.554 | 0017 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194396 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | 28.554 | 0017 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194419 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | 28.554 | 0017 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194537 | pCR 28.554 Add KPI definition of Registration procedure set-up time of Network and Network Slice Instance through AMF | China Mobile Com. Corporation | 28.554 | 0017 | 3 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194087 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | 28.554 | 0018 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194397 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | 28.554 | 0018 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194420 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | 28.554 | 0018 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194538 | pCR 28.552 Add a descripment of AMF registration procedure set-up time measurement | China Mobile Com. Corporation | 28.554 | 0018 | 3 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194160 | Rel-15 CR TS 28.554 Correction on kbits abbreviation | Huawei | 28.554 | 0019 | - | Rel-15 | F | TEI15 | agreed |
| S5-194161 | Rel-16 CR TS 28.554 Correction on kbits abbreviation | Huawei | 28.554 | 0020 | - | Rel-16 | A | TEI15 | agreed |
| S5-194276 | Rel-16 CR 28.554 Correction of Flow Retainability KPI | Ericsson Limited | 28.554 | 0021 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-194425 | Rel-16 CR 28.554 Correction of Flow Retainability KPI | Ericsson Limited | 28.554 | 0021 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-194278 | Rel-16 CR 28.554 Correction of DRB Accessibility KPI | Ericsson Limited | 28.554 | 0022 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-194426 | Rel-16 CR 28.554 Correction of DRB Accessibility KPI | Ericsson Limited | 28.554 | 0022 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-194162 | Rel-15 CR 28622 V1520 Clarify optional configurable PM | Ericsson-LG Co., LTD | 28.622 | 0035 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194412 | Rel-15 CR 28622 V1520 Clarify optional configurable PM | Ericsson-LG Co., LTD | 28.622 | 0035 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194163 | Rel-15 CR 28623 v1520 Add Generic NRM IRP solution sets | Ericsson-LG Co., LTD | 28.623 | 0022 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194391 | Rel-15 CR 28623 v1520 Add Generic NRM IRP solution sets | Ericsson-LG Co., LTD | 28.623 | 0022 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194265 | generate JSON definition for generic NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.623 | 0023 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-194467 | generate JSON definition for generic NRM based on new style guideline | Nokia, Nokia Shanghai Bell | 28.623 | 0023 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-194311 | CR 32.156 Update attribute properties table | Ericsson India Private Limited | 32.156 | 0034 | - | Rel-16 | B | METHOGY | not pursued |
| S5-194440 | CR 32.156 Update attribute properties table | Ericsson India Private Limited | 32.156 | 0034 | 1 | Rel-16 | B | METHOGY | withdrawn |
| S5-194090 | Rel-16 CR 32.255 clarification for EPC interworking triggers | Huawei | 32.255 | 0067 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194329 | Rel-16 CR 32.255 clarification for EPC interworking triggers | Huawei | 32.255 | 0067 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194091 | Rel-16 CR 32.255 EPC interworking call flow correction | Huawei | 32.255 | 0068 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194330 | Rel-16 CR 32.255 EPC interworking call flow correction | Huawei | 32.255 | 0068 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194092 | Rel-16 CR 32.255 EPC interworking triggers impact | Huawei | 32.255 | 0069 | - | Rel-16 | B | 5GIEPC\_CH | not pursued |
| S5-194093 | Rel-16 CR 32.255 Modify the Charging ID | Huawei | 32.255 | 0070 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194332 | Rel-16 CR 32.255 Modify the Charging ID | Huawei | 32.255 | 0070 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194095 | Rel-16 CR 32.255 Message flow for 5GS and EPC interworking | Huawei | 32.255 | 0071 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194331 | Rel-16 CR 32.255 Message flow for 5GS and EPC interworking | Huawei | 32.255 | 0071 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194096 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | 32.255 | 0072 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194359 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | 32.255 | 0072 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194043 | Rel-16 CR 32.255 Introduce offline only determination by SMF | Nokia, Nokia Shanghai Bell | 32.255 | 0073 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194322 | Rel-16 CR 32.255 Introduce offline only determination by SMF | Nokia, Nokia Shanghai Bell | 32.255 | 0073 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194200 | Rel-16 CR 32.275 Addition of converged charging architecture | Ericsson | 32.275 | 0068 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194201 | Rel-16 CR 32.275 Addition of converged charging scenarios | Ericsson | 32.275 | 0069 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194202 | Rel-16 CR 32.275 Addition of applicable Triggers for converged charging | Ericsson | 32.275 | 0070 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194203 | Rel-16 CR 32.275 Addition of converged charging message flows | Ericsson | 32.275 | 0071 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194204 | Rel-16 CR 32.275 Addition of converged charging CDR handling | Ericsson | 32.275 | 0072 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194205 | Rel-16 CR 32.281 Addition of converged charging architecture | Ericsson | 32.281 | 0003 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194206 | Rel-16 CR 32.281 Addition of converged charging basic principles | Ericsson | 32.281 | 0004 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194207 | Rel-16 CR 32.281 Addition of converged charging flows | Ericsson | 32.281 | 0005 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194208 | Rel-16 CR 32.281 Addition of converged charging information principles | Ericsson | 32.281 | 0006 | - | Rel-16 | B | 5GSIMSCH | not pursued |
| S5-194109 | Rel-16 CR 32.290 Add offline olny charging service message content | Huawei | 32.290 | 0052 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194323 | Rel-16 CR 32.290 Add offline olny charging service message content | Huawei | 32.290 | 0052 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194094 | Rel-16 CR 32.291 Modify the Charging ID | Huawei | 32.291 | 0073 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194333 | Rel-16 CR 32.291 Modify the Charging ID | Huawei | 32.291 | 0073 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194098 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | 32.291 | 0074 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194335 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | 32.291 | 0074 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194110 | Rel-16 CR 32.291 Correct Offline only charging service API resource definition | Huawei | 32.291 | 0075 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194324 | Rel-16 CR 32.291 Correct Offline only charging service API resource definition | Huawei | 32.291 | 0075 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194111 | Rel-16 CR 32.291 Add 5G Data Connectivity Specified Data Type for Offline only charging service API data model | Huawei | 32.291 | 0076 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194325 | Rel-16 CR 32.291 Add 5G Data Connectivity Specified Data Type for Offline only charging service API data model | Huawei | 32.291 | 0076 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194112 | Rel-16 CR 32.291 Add Simple data types and enumerations for Offline only charging service API data model | Huawei | 32.291 | 0077 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194326 | Rel-16 CR 32.291 Add Simple data types and enumerations for Offline only charging service API data model | Huawei | 32.291 | 0077 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194113 | Rel-16 CR 32.291 Add Bindings of common CDR field for Offline only charging service API | Huawei | 32.291 | 0078 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194327 | Rel-16 CR 32.291 Add Bindings of common CDR field for Offline only charging service API | Huawei | 32.291 | 0078 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194114 | Rel-16 CR 32.291 Add Offline only charging open API schema | Huawei | 32.291 | 0079 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-194328 | Rel-16 CR 32.291 Add Offline only charging open API schema | Huawei | 32.291 | 0079 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-194224 | Rel-16 CR 32.291 Update Open API for interworking | HUAWEI | 32.291 | 0080 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194336 | Rel-16 CR 32.291 Update Open API for interworking | HUAWEI | 32.291 | 0080 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194097 | Rel-16 CR 32.298 Definition of charging parameter for interworking with EPC | Huawei | 32.298 | 0722 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-194334 | Rel-16 CR 32.298 Definition of charging parameter for interworking with EPC | Huawei | 32.298 | 0722 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-194261 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | 32.425 | 0197 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-194481 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | 32.425 | 0197 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-194173 | CR Rel-8 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0072 | - | Rel-8 | F | OAM8 | revised |
| S5-194508 | CR Rel-8 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0072 | 1 | Rel-8 | F | OAM8 | not pursued |
| S5-194174 | CR Rel-9 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0073 | - | Rel-9 | A | OAM8 | revised |
| S5-194509 | CR Rel-9 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0073 | 1 | Rel-9 | A | OAM8 | not pursued |
| S5-194175 | CR Rel-10 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0074 | - | Rel-10 | A | OAM8 | revised |
| S5-194510 | CR Rel-10 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0074 | 1 | Rel-10 | A | OAM8 | not pursued |
| S5-194176 | CR Rel-11 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0075 | - | Rel-11 | A | OAM8 | revised |
| S5-194511 | CR Rel-11 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0075 | 1 | Rel-11 | A | OAM8 | not pursued |
| S5-194177 | CR Rel-12 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0076 | - | Rel-12 | A | OAM8 | revised |
| S5-194512 | CR Rel-12 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0076 | 1 | Rel-12 | A | OAM8 | not pursued |
| S5-194178 | CR Rel-13 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0077 | - | Rel-13 | A | OAM8 | not pursued |
| S5-194513 | CR Rel-13 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0077 | 1 | Rel-13 | A | OAM8 | withdrawn |
| S5-194179 | CR Rel-14 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0078 | - | Rel-14 | A | OAM8 | revised |
| S5-194514 | CR Rel-14 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0078 | 1 | Rel-14 | A | OAM8 | not pursued |
| S5-194180 | CR Rel-15 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0079 | - | Rel-15 | A | OAM8 | revised |
| S5-194515 | CR Rel-15 32.426 Correct description of measurement KPI of paging | Huawei | 32.426 | 0079 | 1 | Rel-15 | A | OAM8 | not pursued |
| S5-194155 | Rel-13 CR TS 32.450 Correction on kbits abbreviation | Huawei | 32.450 | 0019 | - | Rel-13 | F | TEI13 | agreed |
| S5-194156 | Rel-14 CR TS 32.450 Correction on kbits abbreviation | Huawei | 32.450 | 0020 | - | Rel-14 | A | TEI13 | agreed |
| S5-194157 | Rel-15 CR TS 32.450 Correction on kbits abbreviation | Huawei | 32.450 | 0021 | - | Rel-15 | A | TEI13 | agreed |
| S5-194146 | Rel-11 CR TS 32.502 Update incorrect information | Huawei | 32.502 | 0007 | - | Rel-11 | F | OAM11 | agreed |
| S5-194147 | Rel-12 CR TS 32.502 Update incorrect information | Huawei | 32.502 | 0008 | - | Rel-12 | A | OAM11 | agreed |
| S5-194148 | Rel-13 CR TS 32.502 Update incorrect information | Huawei | 32.502 | 0009 | - | Rel-13 | A | OAM11 | agreed |
| S5-194149 | Rel-14 CR TS 32.502 Update incorrect information | Huawei | 32.502 | 0010 | - | Rel-14 | A | OAM11 | agreed |
| S5-194150 | Rel-15 CR TS 32.502 Update incorrect information | Huawei | 32.502 | 0011 | - | Rel-15 | A | OAM11 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-194026 |  | LS from CT3 to SA5 on Requirements on Volume Based Charging | C3-191408 | replied to | S5-194321 |
| S5-194027 |  | Resubmitted LS from RAN1 to SA5 on LS on completion of CLI-RIM in RAN1 | R1-1903676 | postponed | (none) |
| S5-194028 |  | LS from RAN2 to SA2 and SA5 on IAB impact to CN | R2-1905475 | postponed | (none) |
| S5-194029 |  | Reply LS from RAN2 to SA5 on the user plane latency measurement | R2-1908144 | postponed | (none) |
| S5-194030 |  | Reply LS from RAN3 to SA5 on L1 and L2 measurements | R3-192122 | postponed | (none) |
| S5-194031 |  | Reply LS from RAN3 to SA5 on PDCP end user throughput measurements | R3-192124 | postponed | (none) |
| S5-194032 |  | Reply LS from RAN3 ccSA5 on 5G\_URLLC | R3-192179 | postponed | (none) |
| S5-194033 |  | LS from RAN3 to SA5 on OAM requirements for RIM | R3-193245 | postponed | (none) |
| S5-194034 |  | LS from SA2 ccSA5 on QoS Monitoring | S2-1904761 | postponed | (none) |
| S5-194035 |  | Reply LS from RAN3 ccSA5 on QoS Monitoring | R3-193282 | postponed | (none) |
| S5-194036 |  | Resubmitted LS reply from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter | S2-1902847 | postponed | (none) |
| S5-194037 |  | Response LS from SA2 ccSA5 on reporting all cell IDs in 5G | S2-1904819 | noted | (none) |
| S5-194038 |  | LS from SA2 to SA5 on User Data Congestion Analytics | S2-1906797 | postponed | (none) |
| S5-194039 |  | Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | GSMA | postponed | (none) |
| S5-194040 |  | Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | ITU-T SG2 | postponed | (none) |
| S5-194041 |  | LS from ITU-T to SA5 on Energy Efficiency on 5G (reply to 3GPP TSG SA5-S5-191344) | ITU-T SG5 | postponed | (none) |
| S5-194042 |  | LS from ITU-T to SA5 on new Recommendation Q.5020 (formerly Q.NS-LCMP): Protocol requirements and procedures for network slice lifecycle management | ITU-T SG11 | postponed | (none) |
| S5-194191 |  | LS from ETSI TC LI to SA5 on 5G Cell ID(s) in the 3GPP SA5 billing system | ETSI TC LI | postponed | (none) |
| S5-194465 |  | LS from GSMA on NG116 Publication and GST Co-operation with 3GPP SA5 | GSMA | postponed | (none) |
| S5-194495 |  | LS reply on PCF and NEF discovery for Edge Computing | S2-1904837 | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-194321 | Reply to: LS from CT3 to SA5 on Requirements on Volume Based Charging | CT3 | - | S5-194026 |
| S5-194458 | LS on radio resource management policy | RAN3, RAN2 | - | - |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-194459 | Revised NRM enhancements WI | Nokia, Nokia Shanghai Bell | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-194343 | 32.256 | 0.3.0 | Draft TS 32.256 |
| S5-194356 | 32.845 | 0.5.0 | Draft TR 32.845 |
| S5-194524 | 28.404 | 1.1.0 | Draft TS 28.404 |
| S5-194525 | 28.405 | 0.7.0 | Draft TS 28.405 |
| S5-194526 | 28.311 | 0.3.0 | Draft TS 28.311 |
| S5-194527 | 32.160 | 1.3.0 | Draft TS 32.160 |
| S5-194528 | 28.812 | 0.6.0 | Draft TR 28.812 |
| S5-194529 | 28.803 | 1.1.0 | Draft TR 28.803 |
| S5-194530 | 28.804 | 0.5.0 | Draft TR 28.804 |
| S5-194531 | 28.805 | 1.1.0 | Draft TR 28.805 |
| S5-194532 | 28.806 | 0.1.0 | Draft TR 28.806 |
| S5-194533 | 28.861 | 0.6.0 | Draft TR 28.861 |

## Annex F: List of participants

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Employer Category Code | Organization Represented | Organization Represented Category Code |
| Dr. | Al-kanani | Hassan | NEC Europe Ltd | ETSI | NEC Corporation | ETSI |
| Mr. | Andrianov | Anatoly | Nokia Germany | ETSI | Nokia | ATIS |
| Mr. | Askerup | Anders | Hewlett-Packard Enterprise | ETSI | Hewlett-Packard Enterprise | ETSI |
| Mrs. | Ayani | Zhulia | Ericsson LM | ETSI | Ericsson GmbH, Eurolab | ETSI |
| Miss | CHEN | SHAN | Huawei Tech.(UK) Co., Ltd | ETSI | HUAWEI Technologies Japan K.K. | ARIB |
| Miss | Chen | Xiumin | China Telecommunications | ETSI | China Telecommunications | ETSI |
| Mr. | Chou | Joey | Intel Corporation (UK) Ltd | ETSI | Intel Corporation (UK) Ltd | ETSI |
| Mr. | Edwards | Robert | Matrixx | ETSI | Matrixx | ETSI |
| Mrs. | Gardella | Maryse | Nokia France | ETSI | Nokia France | ETSI |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | ETSI | Samsung R&D Institute UK | ETSI |
| Mr. | Groenendijk | Jan | Ericsson LM | ETSI | Ericsson India Private Limited | TSDSI |
| Mr. | Harper | Colby | Pivotal Commware | ATIS | Pivotal Commware | ATIS |
| Mr. | Harper | Colby | Pivotal Commware | ATIS | Pivotal Commware | ATIS |
| Ms. | Hu | Yaxi | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Miss | Huang | Xiaoting | China Mobile Com. Corporation | CCSA | China Mobile International Ltd | CCSA |
| Mr. | Jahangir | Zeeshan | T-Mobile USA Inc. | ATIS | T-Mobile USA Inc. | ATIS |
| Mr. | Jan | Onnegren | Ericsson LM | ETSI | Ericsson Limited | ETSI |
| Dr. | Jeon | Ho In | OnFace Co., Ltd. | TTA | OnFace Co., Ltd. | TTA |
| Mr. | Jesske | Roland | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| Mr. | Klotz | Michael | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| Mr. | Lengyel | Balazs | Ericsson Hungary Ltd | ETSI | Ericsson Hungary Ltd | ETSI |
| Mr. | Li | Aihua | China Mobile Com. Corporation | CCSA | China Mobile Group Device Co. | CCSA |
| Mr. | Li | Gang | Nanjing Ericsson Panda Com Ltd | CCSA | Ericsson Japan K.K. | ARIB |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | ETSI | Verizon UK Ltd | ETSI |
| Mr. | Liu | Chao | China Mobile E-Commerce Co. | CCSA | China Mobile E-Commerce Co. | CCSA |
| Mr. | Liu | Jinglei | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Long | Biao | China Telecommunications | ETSI | China Telecom Corporation Ltd. | CCSA |
| Mr. | Martin | Jesus | TELEFONICA S.A. | ETSI | TELEFONICA S.A. | ETSI |
| Mr. | McNamee | Alan | Openet Telecom | ETSI | Openet Telecom | ETSI |
| Mr. | MENG | WEI | ZTE Corporation | ETSI | ZTE Wistron Telecom AB | ETSI |
| Mr. | Nakano | Yusuke | KDDI Corporation | ARIB | KDDI Corporation | ARIB |
| Mr. | Petersen | Robert | Ericsson LM | ETSI | Ericsson France S.A.S | ETSI |
| Miss | Ping | Jing | Nokia Germany | ETSI | Nokia Solutions & Networks (I) | TSDSI |
| Dr. | Pollakowski | Olaf | Nokia Germany | ETSI | Nokia Germany | ETSI |
| Mr. | Potter | Benjamin | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Mr. | Qi | Minpeng | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Shinada | Kazuki | KDDI Corporation | TTC | KDDI Corporation | TTC |
| Mr. | Smith | David K. | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Dr. | Sun | Tao | China Mobile Research Inst. | | China Mobile M2M Company Ltd. | CCSA |
| Mr. | Takahashi | Tomohiko | ITOCHU Techno-Solutions Corp | TTC | ITOCHU Techno-Solutions Corp | TTC |
| Mr. | Toche | Christian | Huawei Technologies France | ETSI | Huawei Technologies R&D UK | ETSI |
| Mr. | Törnkvist | Robert | Ericsson LM | ETSI | Ericsson Telecomunicazioni SpA | ETSI |
| Mr. | Tovinger | Thomas | Ericsson LM | ETSI | Ericsson LM | ETSI |
| Mr. | Tse | Edwin | Ericsson LM | ETSI | Ericsson-LG Co., LTD | TTA |
| Miss | Wang | Dan | China Mobile Research Inst. | | China Mobile (Hangzhou) Inf. | CCSA |
| Miss | Wang | Liang | ZTE Corporation | ETSI | ZTE Corporation | CCSA |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | ETSI | Intel Corporation (UK) Ltd | ETSI |
| Mr. | Zhang | Hao | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Zhang | Kai | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Device Co., Ltd | CCSA |
| Dr. | Zhang | Zhuoyun | Tencent | CCSA | Tencent | CCSA |
| Mr. | Zhu | Lei | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Tech.(UK) Co., Ltd | ETSI |
| Mr. | Zhu | Weihong | ZTE Corporation | ETSI | ZTE Corporation | ETSI |
| Miss | Zou | Lan | Huawei Tech.(UK) Co., Ltd | ETSI | HuaWei Technologies Co., Ltd | CCSA |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#126 | 2019-08-19 | 2019-08-23 | Bruges | BE | S5-127 |
| SA5-127 | 2019-14-18 | 2019-10-25 | Sophia Antipolis | FR | S5-ah-34467 |
| SA5#128 | 2019-11-18 | 2019-11-22 | China | CN | S5-128 |