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

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

**NewPort Beach, US, 08/04/2019 to 12/04/2019**

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## 1 Opening of the meeting

David (AT&T) gave the speech on behalf of North American Friends of 3GPP. He welcomed the delegates to Newport Beach and gave some tips on the area and practicalities of the meeting.

## 2 Approval of the agenda

**S5-193000 Agenda**

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

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

## 3 IPR and legal declaration

The attention of the delegates to the meeting of this Technical Specification Group was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were asked to take note that they were thereby invited:

to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP.

Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters. Delegates were reminded of the fair network use rules established by the PCG:

1. Users shall not use the network to engage in illegal activities. This includes activities such as copyright violation, hacking, espionage or any other activity that may be prohibited by local laws.

2. Users shall not engage in non-work related activities that are consume excessive bandwidth or cause significant degradation of the performance of the network.

**S5-193001 IPR and legal declaration**

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

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

## 4 Meetings and activities reports

### 4.1 Last SA5 meeting report

**S5-193002 Report from last SA5 meeting**

*Type: report For: (not specified)  
 Source: MCC*

**Discussion:**

It was argued that the action item "Create a stage 3 CR dependent on this CR" was not relevant for this CR, so it was closed.

On the topic of stage 2 and stage 3 CRs the Chair proposed to work on stage 2CRs in the form of draftCRs in order to align them with the stage 3 CRs before they were created.

The action points were moved to the OAM action list.

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

### 4.2 Last SA meeting report

**S5-193015 SA5 status report at last SA meeting**

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

**ACTION: Consider the use of ETSI FORGE and get familiar with the process agreed in CT Plenary.  
 (action on: SA5 all / due by: 2019-06-27)**

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

**S5-193016 SA5 results at last SA meeting**

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

**Discussion:**

The Chair reminded the delegates that WIDs containing both a normative and a study part should be avoided.

It was discussed the use of ETSI FORGE at OMA level and delegates were encouraged to get familiar with the process agreed in SA/CT on the use of OPENAPIs.

MCC reminded the delegates about two CRs approved for TR 21.801 and TR 21.900:

- Use of the term "sub-clause" is deprecated, so just the term "clause" should be used.

- Clarifications for the use of the WID code "TEIx" in CRs. This should not be used for cat-B/C CRs, better create a new Work Item.

Release 16 deadline is December 2019, although there are discussions to extend it to March 2020. In case of dependency of RAN groups, exceptions can be requested. Maryse (Nokia) commented that moving to March 2020 would be very welcome from the Charging SWG perspective.

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

**S5-193346 SA presentation on the process for OPEN APIs**

*Type: other For: Presentation  
 Source: WG Chair*

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

### 4.3 Inter-organizational reports

**S5-193309 General SA5 presentation to Layer123/ZTA congress**

*Type: other For: Information  
 Source: Ericsson LM*

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

**S5-193310 General SA5 presentation to ONAP M-SDO workshop**

*Type: other For: Information  
 Source: Ericsson LM*

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

**S5-193347 SA5 presentation for ONAP**

*Type: other For: Information  
 Source: Nokia*

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

## 5 Cross-SWG issues

### 5.1 Administrative issues at SA5 level

**S5-193003 Leaders meeting agenda**

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

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

**S5-193004 Leaders meeting minutes**

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

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

**S5-193005 SA5 Working Procedures**

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

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

**S5-193006 SA5 Meeting Facility Requirements**

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

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

**S5-193007 Process for management of draft TSs/TRs**

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

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

**S5-193008 CR Quality Check**

*Type: other For: (not specified)  
 Source: MCC*

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

**S5-193009 Status of email approvals**

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

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

**S5-193547 Draft OAM agenda for Sapporo**

*Type: other For: Information  
 Source: WG Chair*

(Replaces S5-193531)

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

### 5.2 Technical issues at SA5 level

### 5.3 Liaison statements at SA5 level

**S5-193245 LS from CT to SA5 on Handling of non-essential corrections (non-FASMO) CRs and non-backwards compatible CRs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: CP-190218*

**Discussion:**

Ericsson pointed out that it may be difficult to judge at CT/SA level whether an agreed SA5 CR was FASMO or non-FASMO.

MCC pointed out that tdoc S5-193040 was a cat-B CR for Rel-15 and it could be rejected at SA if there were implications for CT.

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

**S5-193257 LS from TSG SA ccSA5 on Information on MEC work on 5G**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-190251*

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

**S5-193258 LS from SA2 ccSA5 on Information on MEC work on 5G**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1902907*

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

**S5-193308 Response LS to GSMA ccSA5 on NEST\_59\_004 on ‘GST and Cooperation with industry partners**

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

**Discussion:**

Nokia: there's an issue here. If NFV works on the GSMA GST skipping slice profiles, the whole 3GPP NRM is bypassed. BBF does not support 5G slices. Their job is to support connectivity.We should have been copied in the original LS from GSMA and it seems to imply that 3GPP has been ignored here.

**Decision:** The document was **replied to in S5-193350**.

**S5-193350 Reply to: Response LS to GSMA ccSA5 on NEST\_59\_004 on ‘GST and Cooperation with industry partners**

*Type: LS out For: approval  
 to BBF,GSMA  
 Source: Huawei*

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

### 5.4 SA5 meeting calendar

**S5-193010 SA5 Meeting Calendar**

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

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

### 5.5 Review of the Work Plan

**S5-193011 3GPP SA5 Work Plan**

*Type: other For: (not specified)  
 Source: MCC*

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-193012 Time Plan for OAM&P**

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

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

**S5-193013 OAM Executive Report**

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

**Decision:** The document was **revised to S5-193551**.

**S5-193551 OAM Executive Report**

*Type: report For: -  
 Source: WG Vice Chair (ORANGE)*

(Replaces S5-193013)

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

**S5-193014 OAM&P SWG action list**

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

**Decision:** The document was **revised to S5-193510**.

**S5-193510 OAM&P SWG action list**

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

(Replaces S5-193014)

**Decision:** The document was **revised to S5-193550**.

**S5-193550 OAM&P SWG action list**

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

(Replaces S5-193510)

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

**S5-193017 Minutes of OAM&P SWG opening session**

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

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

**S5-193246 LS from RAN1 to SA5 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**.

**S5-193247 Ls from RAN2 cc SA5 on L1 and L2 measurements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1902806*

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

**S5-193248 LS from RAN2 to SA5 on network slicing terminology**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1902823*

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

**S5-193250 Reply LS from RAN3 ccSA5 on providing information on SLA fulfilment to NG-RAN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-191091*

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

**S5-193251 Resubmitted LS from ITU-TSG12 to SA5 on Draft new Recommendation E.RQST – “KPI targets for mobile networks”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG12*

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

**S5-193252 LS from TSG RAN ccSA5 on Draft new Recommendation E.RQST – “KPI targets for mobile networks”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: RP-190673*

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

**S5-193253 LS from TSG SA ccSA5 in reply to LS on Draft new Recommendation E.RQST – “KPI targets for mobile networks”LS in reply to LS on Draft new Recommendation E.RQST – “KPI targets for mobile networks”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-190269*

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

**S5-193254 LS 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**.

**S5-193351 Reply to: LS from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter**

*Type: LS out For: approval  
 to SA2  
 Source: Ericsson*

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

**S5-193259 LS from ITU-T SG2 to SA5 on cooperation on methodology harmonization and REST-based network management framework**

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

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

**S5-193260 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 **noted**.

**S5-193349 Discussion paper on levels of autonomous network**

*Type: discussion For: discussion  
 Source: China Mobile, China Telecom, China Unicom, Huawei, Turkcell, Vodafone, ZTE*

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

**S5-193460 Title Stage 2-3 alignment process**

*Type: discussion For: Endorsement  
 Source: WG chair*

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

**S5-193531 Draft OAM agenda for Sapporo**

*Type: other For: Information  
 Source: WG Chair*

**Decision:** The document was **revised to S5-193547**.

### 6.2 New OAM&P Work Item proposals

**S5-193018 Minutes of New Work Item proposals - OAM&P**

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

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

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

**S5-193019 Minutes of OAM&P Maintenance and Rel-16 small Enhancements**

*Type: report For: (not specified)  
 Source: MCC*

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

**S5-193040 Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0051 rev 3 Cat: C (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT*

(Replaces S5-192312)

**Decision:** The document was **revised to S5-193401**.

**S5-193401 Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object class**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0051 rev 4 Cat: C (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT*

(Replaces S5-193040)

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

**S5-193056 Discussion paper on the need to restructure TS 28.532**

*Type: discussion For: Endorsement  
 Source: AT&T, Orange*

**Decision:** The document was **revised to S5-193352**.

**S5-193352 Discussion paper on the need to restructure TS 28.532**

*Type: discussion For: Endorsement  
 Source: AT&T, Orange*

(Replaces S5-193056)

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

**S5-193057 Introducing GST and NEST**

*Type: CR For: Approval  
 28.531 v16.1.0 CR-0018 Cat: B (Rel-16)  
  
 Source: Orange Romania*

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

**S5-193353 Introducing GST and NEST**

*Type: CR For: Approval  
 28.531 v16.1.0 CR-0018 rev 1 Cat: B (Rel-16)  
  
 Source: Orange Romania*

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

**S5-193089 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v15.0.0 CR-0081 Cat: A (Rel-15)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193364**.

**S5-193364 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v15.0.0 CR-0081 rev 1 Cat: A (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-193089)

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

**S5-193101 Add missing annex with information on probable causes**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0030 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

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

**S5-193102 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v14.0.0 CR-0082 Cat: A (Rel-14)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193362**.

**S5-193362 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v14.0.0 CR-0082 rev 1 Cat: A (Rel-14)  
  
 Source: Ericsson Inc.*

(Replaces S5-193102)

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

**S5-193103 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v13.0.0 CR-0083 Cat: A (Rel-13)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193361**.

**S5-193361 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v13.0.0 CR-0083 rev 1 Cat: A (Rel-13)  
  
 Source: Ericsson Inc.*

(Replaces S5-193103)

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

**S5-193104 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v12.2.0 CR-0084 Cat: A (Rel-12)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193360**.

**S5-193360 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v12.2.0 CR-0084 rev 1 Cat: A (Rel-12)  
  
 Source: Ericsson Inc.*

(Replaces S5-193104)

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

**S5-193105 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v11.2.0 CR-0085 Cat: A (Rel-11)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193359**.

**S5-193359 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v11.2.0 CR-0085 rev 1 Cat: A (Rel-11)  
  
 Source: Ericsson Inc.*

(Replaces S5-193105)

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

**S5-193106 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v10.4.0 CR-0086 Cat: A (Rel-10)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193358**.

**S5-193358 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v10.4.0 CR-0086 rev 1 Cat: A (Rel-10)  
  
 Source: Ericsson Inc.*

(Replaces S5-193106)

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

**S5-193107 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v9.2.0 CR-0087 Cat: A (Rel-9)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193357**.

**S5-193357 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v9.2.0 CR-0087 rev 1 Cat: A (Rel-9)  
  
 Source: Ericsson Inc.*

(Replaces S5-193107)

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

**S5-193108 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v8.2.0 CR-0088 Cat: F (Rel-8)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193356**.

**S5-193356 Corrections of the document references information**

*Type: CR For: Approval  
 32.111-2 v8.2.0 CR-0088 rev 1 Cat: F (Rel-8)  
  
 Source: Ericsson Inc.*

(Replaces S5-193108)

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

**S5-193129 Rel-16 CR 32.425 Add measurement on RRC connection usage per UE multi-RAT capability**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0188 Cat: B (Rel-16)  
  
 Source: P.I. WORKS*

**Abstract:**

Add measurement on RRC connection usage per UE multi RAT capability

**Decision:** The document was **revised to S5-193363**.

**S5-193363 Rel-16 CR 32.425 Add measurement on RRC connection usage per UE multi-RAT capability**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0188 rev 1 Cat: B (Rel-16)  
  
 Source: P.I. WORKS*

(Replaces S5-193129)

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

**S5-193137 Rel-15 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0080 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193451**.

**S5-193451 Rel-15 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0080 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-193137)

**Discussion:**

Technical content was agreed, postponed for stage 3 CR.

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

**S5-193138 Rel-16 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0081 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193452**.

**S5-193452 Rel-16 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0081 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193138)

**Discussion:**

Content was agreed but it will be resubmitted for the next meeting in order to prepare the stage 3 CR.

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

**S5-193139 Rel-15 CR TS 28.541 Remove attribute availabilityStatus in NRCellDU IOC**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0082 Cat: F (Rel-15)  
  
 Source: Huawei,Ericsson*

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

**S5-193140 Rel-16 CR TS 28.541 Remove attribute availabilityStatus in NRCellDU IOC**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0083 Cat: A (Rel-16)  
  
 Source: Huawei,Ericsson*

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

**S5-193141 Rel-15 CR TS 28.541 Correct the definition for nsInfo**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0084 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193413**.

**S5-193413 Rel-15 CR TS 28.541 Correct the definition for nsInfo**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0084 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-193141)

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

**S5-193142 Rel-16 CR TS 28.541 Correct the definition for nsInfo**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0085 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193414**.

**S5-193414 Rel-16 CR TS 28.541 Correct the definition for nsInfo**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0085 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193142)

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

**S5-193143 Rel-16 CR 28.531 Editor's change for configuration management service**

*Type: CR For: Approval  
 28.531 v16.1.0 CR-0019 Cat: A (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **revised to S5-193416**.

**S5-193416 Rel-16 CR 28.531 Editor's change for configuration management service**

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

(Replaces S5-193143)

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

**S5-193144 Rel-15 CR TS 32.425 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.425 v15.2.0 CR-0189 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193417**.

**S5-193417 Rel-15 CR TS 32.425 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.425 v15.2.0 CR-0189 rev 1 Cat: A (Rel-15)  
  
 Source: Huawei*

(Replaces S5-193144)

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

**S5-193145 Rel-16 CR TS 32.425 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.425 v16.2.0 CR-0190 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193418**.

**S5-193418 Rel-16 CR TS 32.425 Correction on kbits abbreviation**

*Type: CR For: Approval  
 32.425 v16.2.0 CR-0190 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193145)

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

**S5-193151 Mapping rule between DN and URI**

*Type: discussion For: Endorsement  
 32.300 v..  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193419**.

**S5-193419 Mapping rule between DN and URI**

*Type: discussion For: Endorsement  
 32.300 v..  
 Source: Ericsson Inc.*

(Replaces S5-193151)

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

**S5-193184 Add missing (NR) cell and frequency relation**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0086 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193529**.

**S5-193529 Add missing (NR) cell and frequency relation**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0086 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.,Huawei*

(Replaces S5-193184)

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

**S5-193185 Update Information Service of NR to fix unclear Note issue**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0087 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

RRMPolicyRatio Note, and RRMPolicyRatio2 Note x, y, z

**Decision:** The document was **revised to S5-193409**.

**S5-193409 Update Information Service of NR to fix unclear Note issue**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0087 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193185)

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

**S5-193197 Add missing (E-UTRAN) cell and freq relation**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0091 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193420**.

**S5-193420 Add missing (E-UTRAN) cell and freq relation**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0091 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.,Huawei*

(Replaces S5-193197)

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

**S5-193198 Correct pLMNIdList parameter**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0092 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

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

**S5-193421 Correct pLMNIdList parameter**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0092 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

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

**S5-193201 CR 32.158 Correct the DN to URI mapping rules**

*Type: CR For: Approval  
 32.158 v15.1.0 CR-0003 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193479**.

**S5-193479 CR 32.158 Correct the DN to URI mapping rules**

*Type: CR For: Approval  
 32.158 v15.1.0 CR-0003 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193201)

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

**S5-193210 Discussion paper around beam types**

*Type: discussion For: Approval  
 28.541 v..  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193422**.

**S5-193422 Discussion paper around beam types**

*Type: discussion For: Approval  
 28.541 v..  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193210)

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

**S5-193239 Correct UML diagram and role-attribute of slice NRM**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0093 Cat: F (Rel-15)  
  
 Source: Ericsson Inc. Huawei*

**Decision:** The document was **revised to S5-193438**.

**S5-193438 Correct UML diagram and role-attribute of slice NRM**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0093 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc. Huawei*

(Replaces S5-193239)

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

**S5-193240 Correct definition of configuredMaxTxPower**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0094 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

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

**S5-193241 Correct style for Definition**

*Type: CR For: Approval  
 32.156 v16.1.0 CR-0028 Cat: F (Rel-16)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193439**.

**S5-193439 Correct style for Definition**

*Type: CR For: Approval  
 32.156 v16.1.0 CR-0028 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson Inc.*

(Replaces S5-193241)

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

**S5-193242 Add RP attribute and disambiguate the delivery method attributes**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0034 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193440**.

**S5-193440 Add RP attribute and disambiguate the delivery method attributes**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0034 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-193242)

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

**S5-193243 Correct use of Proxy class**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0095 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193447**.

**S5-193447 Correct use of Proxy class**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0095 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-193243)

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

**S5-193244 correct the use of plmnIdList**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0096 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193405**.

**S5-193405 correct the use of plmnIdList**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0096 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193244)

**Decision:** The document was **revised to S5-193548**.

**S5-193548 correct the use of plmnIdList**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0096 rev 2 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193405)

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

**S5-193265 Correction of Throughput KPI**

*Type: CR For: Approval  
 28.554 v15.2.0 CR-0014 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193448**.

**S5-193448 Correction of Throughput KPI**

*Type: CR For: Approval  
 28.554 v15.2.0 CR-0014 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193265)

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

**S5-193266 Correction of Throughput KPI**

*Type: CR For: Approval  
 28.554 v16.0.0 CR-0015 Cat: A (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193449**.

**S5-193449 Correction of Throughput KPI**

*Type: CR For: Approval  
 28.554 v16.0.0 CR-0015 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193266)

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

**S5-193271 Correction of F1 measurements**

*Type: CR For: Approval  
 28.552 v15.2.0 CR-0083 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

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

**S5-193272 Correction of F1 measurements**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0084 Cat: A (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

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

**S5-193273 Correction of RRMPolicy**

*Type: CR For: Approval  
 28.541 v15.2.0 CR-0100 Cat: F (Rel-15)  
  
 Source: Ericsson-LG Co., LTD*

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

**S5-193275 Correction of RRMPolicy**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0101 Cat: A (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

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

**S5-193277 CR R15 32421-F00 Update eNB/NG-RAN List of interfaces for NSA support of trace activation of trace activation**

*Type: CR For: (not specified)  
 32.421 v15.0.0 CR-0076 Cat: F (Rel-15)  
  
 Source: Ericsson, NTT DOCOMO*

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

**S5-193278 CR R15 32.422-f10 Update eNB/NG-RAN List of interfaces for NSA support of trace activation**

*Type: CR For: (not specified)  
 32.422 v15.1.0 CR-0301 Cat: F (Rel-15)  
  
 Source: Ericsson, NTT DOCOMO*

**Decision:** The document was **revised to S5-193546**.

**S5-193546 CR R15 32.422-f10 Update eNB/NG-RAN List of interfaces for NSA support of trace activation**

*Type: CR For: -  
 32.422 v15.1.0 CR-0301 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, NTT DOCOMO*

(Replaces S5-193278)

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

**S5-193279 CR R15 32423-f00 Update Trace Record Content to reflect the NR NRM in 28.541 for NSA support**

*Type: CR For: (not specified)  
 32.423 v15.0.0 CR-0097 Cat: F (Rel-15)  
  
 Source: Ericsson, NTT DOCOMO*

**Decision:** The document was **revised to S5-193450**.

**S5-193450 CR R15 32423-f00 Update Trace Record Content to reflect the NR NRM in 28.541 for NSA support**

*Type: CR For: -  
 32.423 v15.0.0 CR-0097 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson, NTT DOCOMO*

(Replaces S5-193279)

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

**S5-193304 Fix the implementation errors**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0103 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193305 Correct the use of plmnIdList**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0104 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193404**.

**S5-193404 Correct the use of plmnIdList**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0104 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193305)

**Decision:** The document was **revised to S5-193549**.

**S5-193549 Correct the use of plmnIdList**

*Type: CR For: Agreement  
 28.541 v15.2.0 CR-0104 rev 2 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193404)

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

**S5-193415 Rel-15 CR 28.531 Editor's change for configuration management service**

*Type: CR For: Agreement  
 28.531 v15.2.0 CR-0020 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-193442 Correct style for Definition**

*Type: CR For: Agreement  
 32.156 v11.4.0 CR-0029 Cat: F (Rel-11)  
  
 Source: Ericsson*

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

**S5-193443 Correct style for Definition**

*Type: CR For: Agreement  
 32.156 v12.2.0 CR-0030 Cat: A (Rel-12)  
  
 Source: Ericsson*

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

**S5-193444 Correct style for Definition**

*Type: CR For: Agreement  
 32.156 v13.2.0 CR-0031 Cat: A (Rel-13)  
  
 Source: Ericsson*

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

**S5-193445 Correct style for Definition**

*Type: CR For: Agreement  
 32.156 v14.2.0 CR-0032 Cat: A (Rel-14)  
  
 Source: Ericsson*

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

**S5-193446 Correct style for Definition**

*Type: CR For: Agreement  
 32.156 v15.2.0 CR-0033 Cat: A (Rel-15)  
  
 Source: Ericsson*

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

**S5-193463 Rel-13 CR TS 32.425 Correction on kbits abbreviation**

*Type: CR For: Agreement  
 32.425 v13.5.0 CR-0195 Cat: F (Rel-13)  
  
 Source: Huawei*

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

**S5-193464 Rel-14 CR TS 32.425 Correction on kbits abbreviation**

*Type: CR For: Agreement  
 32.425 v14.1.0 CR-0196 Cat: - (Rel-14)  
  
 Source: Huawei*

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

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

#### 6.4.1 Management of QoE measurement collection

**S5-193020 Minutes of Management of QoE measurement collection**

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

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

**S5-193211 pCR R16 28405-050 Change clause structure**

*Type: pCR For: (not specified)  
 28.405 v0.5.0  
 Source: Ericsson*

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

**S5-193212 pCR R16 28405-050 Introduce missing abbreviations**

*Type: pCR For: (not specified)  
 28.405 v0.5.0  
 Source: Ericsson*

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

**S5-193213 Introduction of deactivation of QMC in LTE**

*Type: pCR For: (not specified)  
 28.405 v0.5.0  
 Source: Ericsson*

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

**S5-193215 Introduction of management based activated QMC handling at handover for LTE**

*Type: pCR For: (not specified)  
 28.405 v0.5.0  
 Source: Ericsson*

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

**S5-193216 Introduction of Management based activation QMC for LTE**

*Type: pCR For: (not specified)  
 28.405 v0.5.0  
 Source: Ericsson*

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

**S5-193365 Draft TS 28.405**

*Type: draft TS For: Approval  
 28.405 v0.6.0  
 Source: Ericsson*

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

#### 6.4.2 Energy Efficiency of 5G

**S5-193021 Minutes of Energy effciency of 5G**

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

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

**S5-193164 Discussion paper on PEE measurement data collection for NG-RAN**

*Type: discussion For: Endorsement  
 28.310 v..  
 Source: Huawei, Ericsson, Orange*

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

**S5-193165 pCR 28.310 Add requirements of PEE measurement data collection for NG-RAN**

*Type: pCR For: Approval  
 28.310 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193366**.

**S5-193366 pCR 28.310 Add requirements of PEE measurement data collection for NG-RAN**

*Type: pCR For: Approval  
 28.310 v0.3.0  
 Source: Huawei,Ericsson*

(Replaces S5-193165)

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

**S5-193166 pCR 28.310 Update EE concept**

*Type: pCR For: Approval  
 28.310 v0.3.0  
 Source: Huawei, Orange*

**Decision:** The document was **revised to S5-193367**.

**S5-193367 pCR 28.310 Update EE concept**

*Type: pCR For: Approval  
 28.310 v0.3.0  
 Source: Huawei, Orange*

(Replaces S5-193166)

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

**S5-193179 Revised WID on energy efficiency of 5G**

*Type: WID revised For: Approval  
 Source: Orange Romania*

**Decision:** The document was **revised to S5-193368**.

**S5-193368 Revised WID on energy efficiency of 5G**

*Type: WID revised For: Approval  
 Source: Orange Romania*

(Replaces S5-193179)

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

**S5-193528 Draft TS 28.310**

*Type: draft TS For: Approval  
 28.310 v0.4.0  
 Source: ORANGE*

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

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

**S5-193022 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 **withdrawn**.

#### 6.4.4 Methodology for 5G management specifications

**S5-193023 Minutes of Methodology for 5G management specifications**

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

**Decision:** The document was **revised to S5-193532**.

**S5-193532 Minutes of Methodology for 5G management specifications**

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

(Replaces S5-193023)

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

**S5-193147 YANG solution additional considerations**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

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

**S5-193457 YANG solution additional considerations**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

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

**S5-193148 YANG solution Recommendation to Stage 2 Model Design**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

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

**S5-193149 YANG solution style guide**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

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

**S5-193456 YANG solution style guide**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

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

**S5-193150 Use one style for all enumeration**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193455**.

**S5-193455 Use one style for all enumeration**

*Type: discussion For: Endorsement  
 32.160 v..  
 Source: Ericsson Inc.*

(Replaces S5-193150)

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

**S5-193167 pCR 32.160 Resolution of the editors note in W4.3.a.2**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Huawei*

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

**S5-193202 pCR 32.160 JSON schema and YANG mapping rules**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193203 TD Various issues in JSON schema and YANG stage 3 defintions**

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

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

**S5-193231 pCR 32.160 Stage 2 to stage 3 mapping**

*Type: pCR For: Approval  
 32.160 v1.2.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193234 Presentation of Specification to TSG TS 32.160**

*Type: TS or TR cover For: Information  
 32.160 v1.2.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193355 Sequence proposal for Methodology for 5G management specifications**

*Type: other For: Information  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193441**.

**S5-193441 Sequence proposal for Methodology for 5G management specifications**

*Type: other For: Information  
 Source: Ericsson*

(Replaces S5-193355)

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

**S5-193497 Report on Breakout session on Yang style guide**

*Type: report For: Information  
 Source: Ericsson*

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

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

**S5-193024 Minutes of Intent driven management service for mobile networks**

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

**Decision:** The document was **revised to S5-193533**.

**S5-193533 Minutes of Intent driven management service for mobile networks**

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

(Replaces S5-193024)

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

**S5-193130 pCR 28.812 Update Clause 4.3 Automation mechanisms and intent driven management**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

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

**S5-193131 pCR 28.812 Add description of intent translation**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193370**.

**S5-193370 pCR 28.812 Add description of intent translation**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

(Replaces S5-193131)

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

**S5-193132 pCR 28.812 Add key information for intent expression of existing scenarios**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

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

**S5-193371 pCR 28.812 Add key information for intent expression of existing scenarios**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

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

**S5-193133 pCR 28.812 Add introduction and standard consideration for IDMS**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193372**.

**S5-193372 pCR 28.812 Add introduction and standard consideration for IDMS**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei*

(Replaces S5-193133)

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

**S5-193173 pCR 28.812 Add description for level of automation in mobile network management**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei Tech.(UK) Co., Ltd*

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

**S5-193174 Discussion paper on Scope and bounderies for Intent Based Management**

*Type: discussion For: Endorsement  
 28.812 v..  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193373**.

**S5-193373 Discussion paper on Scope and bounderies for Intent Based Management**

*Type: discussion For: Endorsement  
 28.812 v..  
 Source: Ericsson Inc.*

(Replaces S5-193174)

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

**S5-193175 pCR 28.812 Clarification of the dimensions**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193374**.

**S5-193374 pCR 28.812 Clarification of the dimensions**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

(Replaces S5-193175)

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

**S5-193180 Update the feedback description**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **revised to S5-193375**.

**S5-193375 Update the feedback description**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-193180)

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

**S5-193181 pCR 28.812 Abstraction versus layering**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193376**.

**S5-193376 pCR 28.812 Abstraction versus layering**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

(Replaces S5-193181)

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

**S5-193182 pCR 28.812 Clarification of relation between intent and policy**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193377**.

**S5-193377 pCR 28.812 Clarification of relation between intent and policy**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

(Replaces S5-193182)

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

**S5-193183 pCR 28.812 Intent lifecycle management aspects**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-193378**.

**S5-193378 pCR 28.812 Intent lifecycle management aspects**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

(Replaces S5-193183)

**Decision:** The document was **revised to S5-193534**.

**S5-193534 pCR 28.812 Intent lifecycle management aspects**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: Ericsson Inc.*

(Replaces S5-193378)

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

**S5-193199 pCR TR28.812: Editorial clarifications on Intent expression**

*Type: pCR For: Approval  
 28.812 v0.4.0  
 Source: NEC Telecom MODUS Ltd.*

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

**S5-193369 Draft TR 28.812**

*Type: draft TR For: Approval  
 28.812 v0.5.0  
 Source: Huawei*

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

#### 6.4.6 Enhancement of performance assurance for 5G networks including network slicing

**S5-193025 Minutes of Enhancement of performance assurance for 5G networks including network slicing**

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

**Decision:** The document was **revised to S5-193535**.

**S5-193535 Minutes of Enhancement of performance assurance for 5G networks including network slicing**

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

(Replaces S5-193025)

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

**S5-193058 Add use case and definitions of packet loss measurement over N3**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0074 Cat: B (Rel-16)  
  
 Source: ETRI*

**Abstract:**

Add the following measurements:

- Incoming GTP data packet loss on the N3 interface, from (R)AN to UPF

- Outgoing GTP data packet loss on the N3 interface, from UPF to (R)AN

**Decision:** The document was **revised to S5-193382**.

**S5-193382 Add use case and definitions of packet loss measurement over N3**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0074 rev 1 Cat: B (Rel-16)  
  
 Source: ETRI,KT*

(Replaces S5-193058)

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

**S5-193059 Add use case and definitions of packet delay measurement over N3**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0075 Cat: B (Rel-16)  
  
 Source: ETRI*

**Abstract:**

Add the following measurements:

- Incoming GTP data packet delay on the N3 interface, from (R)AN to UPF

- Outgoing GTP data packet delay on the N3 interface, from UPF to (R)AN

**Decision:** The document was **revised to S5-193383**.

**S5-193383 Add use case and definitions of packet delay measurement over N3**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0075 rev 1 Cat: B (Rel-16)  
  
 Source: ETRI,KT*

(Replaces S5-193059)

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

**S5-193061 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Addition for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0184 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S5-193384**.

**S5-193384 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Addition for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0184 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

(Replaces S5-193061)

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

**S5-193062 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Change for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0185 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-193063 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Modification for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0186 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-193064 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Release for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0187 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-193116 Rel-16 CR 28.622 Add IOCs for threshold monitoring control**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0031 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-193379**.

**S5-193379 Rel-16 CR 28.622 Add IOCs for threshold monitoring control**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0031 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

(Replaces S5-193116)

**Decision:** The document was **revised to S5-193516**.

**S5-193516 Rel-16 CR 28.622 Add IOCs for threshold monitoring control**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0031 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

(Replaces S5-193379)

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

**S5-193117 Rel-16 CR 28.623 Add IOCs for threshold monitoring control**

*Type: CR For: Approval  
 28.623 v15.2.0 CR-0021 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

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

**S5-193380 Rel-16 CR 28.623 Add IOCs for threshold monitoring control**

*Type: CR For: Approval  
 28.623 v15.2.0 CR-0021 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

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

**S5-193118 Rel-16 CR 28.550 Add performance threshold monitoring service**

*Type: CR For: Approval  
 28.550 v16.0.0 CR-0008 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-193381**.

**S5-193381 Rel-16 CR 28.550 Add performance threshold monitoring service**

*Type: CR For: Approval  
 28.550 v16.0.0 CR-0008 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

(Replaces S5-193118)

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

**S5-193119 Discussion on Stage 3 of performance data streaming based on WebSocket**

*Type: discussion For: Endorsement  
 28.550 v..  
 Source: Intel Corporation SAS*

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

**S5-193120 Discussion on way forward for MDAS**

*Type: discussion For: Endorsement  
 Source: Intel Corporation SAS*

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

**S5-193121 Rel-16 CR 28.552 Add measurements related to Service Requests via Untrusted non-3GPP Access**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0076 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-193385**.

**S5-193385 Rel-16 CR 28.552 Add measurements related to Service Requests via Untrusted non-3GPP Access**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0076 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

(Replaces S5-193121)

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

**S5-193122 Rel-16 CR 28.552 Add measurements related to PDU session resource management via Untrusted non-3GPP Access**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0077 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

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

**S5-193194 TD Broadcasting cell quality issue**

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

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

**S5-193195 Add measurement related to QoS of cell**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0191 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193196 Add measurement related to QoS of cell**

*Type: CR For: Agreement  
 28.552 v16.1.0 CR-0078 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193214 Add measurements related to inter gNB Handover**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0079 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193386**.

**S5-193386 Add measurements related to inter gNB Handover**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0079 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193214)

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

**S5-193217 Add measurements related to intra gNB Handover**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0080 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193387**.

**S5-193387 Add measurements related to intra gNB Handover**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0080 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193217)

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

**S5-193218 Add KPI for NG-RAN Handover Success Rate**

*Type: CR For: Approval  
 28.554 v16.0.0 CR-0013 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193388**.

**S5-193388 Add KPI for NG-RAN Handover Success Rate**

*Type: CR For: Approval  
 28.554 v16.0.0 CR-0013 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193218)

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

**S5-193267 Add measurements related to DRB retainability**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0081 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193389**.

**S5-193389 Add measurements related to DRB retainability**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0081 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193267)

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

**S5-193268 Add KPI for DRB Retainability**

*Type: CR For: Approval  
 28.554 v16.0.0 CR-0016 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193390**.

**S5-193390 Add KPI for DRB Retainability**

*Type: CR For: Approval  
 28.554 v16.0.0 CR-0016 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193268)

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

**S5-193269 LS on Data activity reporting**

*Type: LS out For: Approval  
 to RAN3  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193391**.

**S5-193391 LS on Data activity reporting**

*Type: LS out For: Approval  
 to RAN3, cc RAN2  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193269)

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

**S5-193270 Correct DRB successfully setup measurements**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0082 Cat: F (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

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

**S5-193274 CR R15 Correction of monitoring of PDCP data volume measurements**

*Type: CR For: (not specified)  
 28.552 v16.1.0 CR-0085 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193453**.

**S5-193453 CR R15 Correction of monitoring of PDCP data volume measurements**

*Type: CR For: -  
 28.552 v16.1.0 CR-0085 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-193274)

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

**S5-193276 Correction of PRB measurements**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0086 Cat: F (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-193454**.

**S5-193454 Correction of PRB measurements**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0086 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193276)

**Decision:** The document was **revised to S5-193536**.

**S5-193536 Correction of PRB measurements**

*Type: CR For: Approval  
 28.552 v16.1.0 CR-0086 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-193454)

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

**S5-193300 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Change for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0192 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-193301 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Modification for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0193 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-193302 Rel-16 CR TS 32.425 Add measurements related to Secondary Node Release for E-UTRA-NR Dual Connectivity**

*Type: CR For: Agreement  
 32.425 v16.2.0 CR-0194 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-193348 Tdoc discussion sequence**

*Type: other For: Information  
 Source: Intel*

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

**S5-193402 Rel-16 CR 32.532 Add notifications for threshold monitoring**

*Type: CR For: Agreement  
 32.532 v15.0.0 CR-0038 Cat: B (Rel-16)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-193538**.

**S5-193538 Rel-16 CR 32.532 Add notifications for threshold monitoring**

*Type: CR For: Agreement  
 32.532 v15.0.0 CR-0038 rev 1 Cat: B (Rel-16)  
  
 Source: Intel*

(Replaces S5-193402)

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

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

**S5-193026 Minutes of Discovery of management services in 5G**

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

**Decision:** The document was **revised to S5-193539**.

**S5-193539 Minutes of Discovery of management services in 5G**

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

(Replaces S5-193026)

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

**S5-193158 CR Rel-16 TS 28.533 Add further clarification of metadata attributes**

*Type: CR For: Agreement  
 28.533 v15.1.0 CR-0016 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-193393 CR Rel-16 TS 28.533 Add further clarification of metadata attributes**

*Type: CR For: Agreement  
 28.533 v15.1.0 CR-0016 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-193159 CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance**

*Type: CR For: Agreement  
 28.533 v15.1.0 CR-0017 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193392**.

**S5-193392 CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance**

*Type: CR For: Agreement  
 28.533 v15.1.0 CR-0017 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193159)

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

**S5-193540 Draft CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance**

*Type: draftCR For: Approval  
 28.533 v15.1.0  
 Source: Huawei*

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

**S5-193160 Discussion paper about MnS instance metainformation**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-193200 MnS discovery**

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

**Decision:** The document was **revised to S5-193395**.

**S5-193395 MnS discovery**

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

(Replaces S5-193200)

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

**S5-193261 CR Rel-16 TS 28.533 Add use case of discovery of MnS instance metainformation**

*Type: CR For: Agreement  
 28.533 v15.1.0 CR-0018 Cat: B (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-193394**.

**S5-193394 CR Rel-16 TS 28.533 Add use case of discovery of MnS instance metainformation**

*Type: CR For: Agreement  
 28.533 v15.1.0 CR-0018 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

(Replaces S5-193261)

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

#### 6.4.8 NRM enhancements

**S5-193027 Minutes of NRM enhancements**

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

**Decision:** The document was **revised to S5-193515**.

**S5-193515 Minutes of NRM enhancements**

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

(Replaces S5-193027)

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

**S5-193186 Update Information Service of NR to fix unclear Note issue**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0088 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

RRMPolicyRatio Note,

**Decision:** The document was **revised to S5-193410**.

**S5-193410 Update Information Service of NR to fix unclear Note issue**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0088 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193186)

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

**S5-193187 Update NRM requirement to support SBA management**

*Type: CR For: Agreement  
 28.540 v15.1.0 CR-0002 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193396**.

**S5-193396 Update NRM requirement to support SBA management**

*Type: CR For: Agreement  
 28.540 v15.1.0 CR-0002 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193187)

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

**S5-193188 Update UIM Information Service to support Service\_ Object**

*Type: CR For: Agreement  
 28.620 v15.0.0 CR-0013 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193397**.

**S5-193397 Update UIM Information Service to support Service\_ Object**

*Type: CR For: Agreement  
 28.620 v15.0.0 CR-0013 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193188)

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

**S5-193517 Update UIM Information Service to support Service\_ Object**

*Type: CR For: Agreement  
 28.620 v15.0.0 CR-0013 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193189 Update generic NRM Information Service to support Managed Service Object**

*Type: CR For: Agreement  
 28.622 v15.2.0 CR-0033 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193398**.

**S5-193398 Update generic NRM Information Service to support Managed Service Object**

*Type: CR For: Agreement  
 28.622 v15.2.0 CR-0033 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193189)

**Decision:** The document was **revised to S5-193518**.

**S5-193518 Update generic NRM Information Service to support Managed Service Object**

*Type: CR For: Agreement  
 28.622 v15.2.0 CR-0033 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193398)

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

**S5-193190 Update 5GC Information Service to align with Managed Service Definition**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0089 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193399**.

**S5-193399 Update 5GC Information Service to align with Managed Service Definition**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0089 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193190)

**Discussion:**

Technical content was agreed but will no be sent to SA until the stage 3 CR is agreed in the next meeting.

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

**S5-193191 TD Resource sharing between multiple PLMNs**

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

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

**S5-193400 TD Resource sharing between multiple PLMNs**

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

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

**S5-193192 Enhance RRM Policy to support resource sharing between multiple PLMNs**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0090 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193403 Enhance RRM Policy to support resource sharing between multiple PLMNs**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0090 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193262 CR Rel-16 28.541 Add datatype definition for NfProfile**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0097 Cat: F (Rel-16)  
  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193406**.

**S5-193406 CR Rel-16 28.541 Add datatype definition for NfProfile**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0097 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-193262)

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

**S5-193263 CR Rel-16 28.541 Add missing clauses to RRMPolicyRatio2 data type**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0098 Cat: F (Rel-16)  
  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193407**.

**S5-193407 CR Rel-16 28.541 Add missing clauses to RRMPolicyRatio2 data type**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0098 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-193263)

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

**S5-193264 CR Rel-16 28.541 Update RRMPolicyRatio2 data type name in stage 3**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0099 Cat: F (Rel-16)  
  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193408**.

**S5-193408 CR Rel-16 28.541 Update RRMPolicyRatio2 data type name in stage 3**

*Type: CR For: Approval  
 28.541 v16.0.0 CR-0099 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-193264)

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

**S5-193303 Fix the implementation errors**

*Type: CR For: Agreement  
 28.541 v16.0.0 CR-0102 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 6.4.9 Trace Management in the context of Services Based Management Architecture

**S5-193028 Minutes of Trace Management in the context of Services Based Management Architecture**

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

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

**S5-193193 TD Trace Management in the context of Services Based Management Architecture**

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

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

**S5-193411 TD Trace Management in the context of Services Based Management Architecture**

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

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

#### 6.4.10 Integration of ONAP and 3GPP 5G management framework

**S5-193029 Minutes of Integration of ONAP and 3GPP 5G management framework**

*Type: report For: (not specified)  
 Source: Rapporteur (AT&T)*

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

**S5-193152 Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0031 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

**Decision:** The document was **revised to S5-193462**.

**S5-193462 Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0031 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-193152)

**Decision:** The document was **revised to S5-193519**.

**S5-193519 Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v15.2.0 CR-0031 rev 2 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-193462)

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

**S5-193153 Rel-16 CR 28.622 Add NRM fragment supporting the management of notifications recipients**

*Type: CR For: Approval  
 28.622 v15.2.0 CR-0032 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

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

**S5-193156 Rel-16 CR 28.533 Add examples of ONAP utilizing the MnSs provided by 3GPP MnS Producer**

*Type: CR For: Approval  
 28.533 v15.1.0 CR-0015 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **revised to S5-193412**.

**S5-193412 Rel-16 CR 28.533 Add examples of ONAP utilizing the MnSs provided by 3GPP MnS Producer**

*Type: CR For: Approval  
 28.533 v15.1.0 CR-0015 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-193156)

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

### 6.5 OAM&P Studies

#### 6.5.1 Study on protocol enhancement for real time communication

**S5-193030 Minutes of Study on protocol enhancement for real time communication**

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

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

#### 6.5.2 Study on management aspects of edge computing

**S5-193031 Minutes of Study on management aspects of edge computing**

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

**Decision:** The document was **revised to S5-193537**.

**S5-193537 Minutes of Study on management aspects of edge computing**

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

(Replaces S5-193031)

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

**S5-193109 pCR 28.803 add introduction**

*Type: pCR For: Approval  
 28.803 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-193458**.

**S5-193458 pCR 28.803 add introduction**

*Type: pCR For: Approval  
 28.803 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-193109)

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

**S5-193110 pCR 28.803 add a solution for end-to-end performance assurance**

*Type: pCR For: Approval  
 28.803 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-193459**.

**S5-193459 pCR 28.803 add a solution for end-to-end performance assurance**

*Type: pCR For: Approval  
 28.803 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-193110)

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

**S5-193111 pCR 28.803 add conclusion**

*Type: pCR For: Approval  
 28.803 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-193461**.

**S5-193461 pCR 28.803 add conclusion**

*Type: pCR For: Approval  
 28.803 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-193111)

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

**S5-193306 Presentation of TR 28.803 to SA for Information**

*Type: TS or TR cover For: Approval  
 28.803 v..  
 Source: Intel Corporation (UK) Ltd*

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

**S5-193541 Draft TR 28.803**

*Type: draft TR For: Approval  
 28.803 v0.5.0  
 Source: Intel*

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

#### 6.5.3 Study on tenancy concept in 5G networks and network slicing management

**S5-193032 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**.

**S5-193161 Representation for tenant in 3GPP management system**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193475**.

**S5-193475 Representation for tenant in 3GPP management system**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

(Replaces S5-193161)

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

**S5-193162 Management entity for tenant in 3GPP management system**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193476**.

**S5-193476 Management entity for tenant in 3GPP management system**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

(Replaces S5-193162)

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

**S5-193163 Add tenant definition in 3GPP management system**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193478**.

**S5-193478 Add tenant definition in 3GPP management system**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

(Replaces S5-193163)

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

**S5-193172 pCR 28.804 Add tenant type description**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

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

**S5-193209 pCR 28.804 Add tenant type description**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193477**.

**S5-193477 pCR 28.804 Add tenant type description**

*Type: pCR For: Approval  
 28.804 v0.3.0  
 Source: Huawei*

(Replaces S5-193209)

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

**S5-193530 Draft TR 28.804**

*Type: draft TR For: Approval  
 28.804 v0.4.0  
 Source: Nokia*

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

#### 6.5.4 Study on management aspects of communication services

**S5-193033 Minutes of Study on management aspects of communication services**

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

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

**S5-193054 pCR to TR 28.805 SLA assurance**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193480**.

**S5-193480 pCR to TR 28.805 SLA assurance**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193054)

**Decision:** The document was **revised to S5-193542**.

**S5-193542 pCR to TR 28.805 SLA assurance**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193480)

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

**S5-193055 pCR to TR 28.805 Types of communication services**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193481**.

**S5-193481 pCR to TR 28.805 Types of communication services**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193055)

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

**S5-193065 pCR to TR 28.805 Service quality assurance and optimization**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193489**.

**S5-193489 pCR to TR 28.805 Service quality assurance and optimization**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193065)

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

**S5-193157 28.805 Add UC and requirements for CSI monitoring**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193488**.

**S5-193488 28.805 Add UC and requirements for CSI monitoring**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei*

(Replaces S5-193157)

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

**S5-193168 pCR 28.805 CSMF functionalities**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei, Ericsson*

**Decision:** The document was **revised to S5-193487**.

**S5-193487 pCR 28.805 CSMF functionalities**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei, Ericsson*

(Replaces S5-193168)

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

**S5-193169 pCR 28.805 Update use case of communication service instances realization**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193490**.

**S5-193490 pCR 28.805 Update use case of communication service instances realization**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei*

(Replaces S5-193169)

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

**S5-193170 pCR 28.805 Add CSI lifecyle concept**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei, Ericsson*

**Decision:** The document was **revised to S5-193485**.

**S5-193485 pCR 28.805 Add CSI lifecyle concept**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei, Ericsson*

(Replaces S5-193170)

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

**S5-193171 pCR 28.805 Add CSI-NSI lifecycle relation concept**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei, Ericsson*

**Decision:** The document was **revised to S5-193486**.

**S5-193486 pCR 28.805 Add CSI-NSI lifecycle relation concept**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Huawei, Ericsson*

(Replaces S5-193171)

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

**S5-193222 pCR 28.805 Introduce connection to layering**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193482**.

**S5-193482 pCR 28.805 Introduce connection to layering**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-193222)

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

**S5-193223 pCR 28.805 Introduce management model**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193483**.

**S5-193483 pCR 28.805 Introduce management model**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-193223)

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

**S5-193224 pCR 28.805 Introduction communication service management exposure model**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193225 pCR 28.805 Use case and requirement for management of multi-site communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab,Deutsche Telekom*

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

**S5-193491 pCR 28.805 Use case and requirement for management of multi-site communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193226 pCR 28.805 Use case and requirement to activate a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab,Deutsche Telekom*

**Decision:** The document was **revised to S5-193492**.

**S5-193492 pCR 28.805 Use case and requirement to activate a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-193226)

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

**S5-193227 S5-193xxx pCR 28.805 Use case and requirement to create a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193493**.

**S5-193493 pCR 28.805 Use case and requirement to create a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab,Deutsche Telekom*

(Replaces S5-193227)

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

**S5-193228 pCR 28.805 Use case and requirement to de-activate a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193494**.

**S5-193494 pCR 28.805 Use case and requirement to de-activate a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab,Deutsche Telekom*

(Replaces S5-193228)

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

**S5-193229 pCR 28.805 Use case and requirement to modify a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193495**.

**S5-193495 pCR 28.805 Use case and requirement to modify a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab,Deutsche Telekom*

(Replaces S5-193229)

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

**S5-193230 pCR 28.805 Use case and requirement to terminate a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-193496**.

**S5-193496 pCR 28.805 Use case and requirement to terminate a resource facing communication service**

*Type: pCR For: Approval  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab,Deutsche Telekom*

(Replaces S5-193230)

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

**S5-193232 Presentation of Specification to TSG TR 28.805**

*Type: TS or TR cover For: Information  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193233 Presentation of Specification to TSG TS 32.160**

*Type: TS or TR cover For: Information  
 28.805 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193235 Sequence proposal for study on management aspects of communication services**

*Type: other For: Information  
 Source: Ericsson GmbH, Eurolab*

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

**S5-193484 Draft TR 28.805**

*Type: draft TR For: Approval  
 28.805 v0.5.0  
 Source: Ericsson*

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

#### 6.5.5 Study on Self-Organizing Networks (SON) for 5G

**S5-193034 Minutes of Study on Self-Organizing Networks (SON) for 5G**

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

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

**S5-193042 pCR to TR 28.861 Service quality optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193498**.

**S5-193498 pCR to TR 28.861 Service quality optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193042)

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

**S5-193043 pCR to TR 28.861 CCO and Coordination**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193499**.

**S5-193499 pCR to TR 28.861 CCO and Coordination**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193043)

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

**S5-193044 pCR to TR 28.861 Inter-Cell Interference**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193500**.

**S5-193500 pCR to TR 28.861 Inter-Cell Interference**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193044)

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

**S5-193045 pCR to TR 28.861 MRO Use Case corrections**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193501**.

**S5-193501 pCR to TR 28.861 MRO Use Case corrections**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193045)

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

**S5-193046 pCR to TR 28.861 Multi-vendor Plug and Play UC**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

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

**S5-193047 pCR to TR 28.861 Neighbour Cell Relations**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

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

**S5-193048 pCR to TR 28.861 NSI resource allocation optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193504**.

**S5-193504 pCR to TR 28.861 NSI resource allocation optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193048)

**Decision:** The document was **revised to S5-193543**.

**S5-193543 pCR to TR 28.861 NSI resource allocation optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193504)

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

**S5-193049 pCR to TR 28.861 RACH Optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193505**.

**S5-193505 pCR to TR 28.861 RACH Optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193049)

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

**S5-193050 pCR to TR 28.861 References fix**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193502**.

**S5-193502 pCR to TR 28.861 References fix**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.,Huawei*

(Replaces S5-193050)

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

**S5-193051 pCR to TR 28.861 Self-establishment of the NF**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193506**.

**S5-193506 pCR to TR 28.861 Self-establishment of the NF**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193051)

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

**S5-193052 pCR to TR 28.861 SON in multiple domains**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

**Decision:** The document was **revised to S5-193507**.

**S5-193507 pCR to TR 28.861 SON in multiple domains**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193052)

**Decision:** The document was **revised to S5-193544**.

**S5-193544 pCR to TR 28.861 SON in multiple domains**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

(Replaces S5-193507)

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

**S5-193053 pCR to TR 28.861 Trace and MDT**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Cisco Systems Inc.*

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

**S5-193112 pCR 28.861 add use case for automatic NSI creation**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon*

**Decision:** The document was **revised to S5-193509**.

**S5-193509 pCR 28.861 add use case for automatic NSI creation**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon*

(Replaces S5-193112)

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

**S5-193113 pCR 28.861 add use case for PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon*

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

**S5-193114 pCR 28.803 solution for ANR optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon*

**Decision:** The document was **revised to S5-193512**.

**S5-193512 pCR 28.803 solution for ANR optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon*

(Replaces S5-193114)

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

**S5-193115 pCR 28.861 add use case for beam optimization in CCO**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon, ZTE, Pivotal Commware, PI Works*

**Decision:** The document was **revised to S5-193513**.

**S5-193513 pCR 28.861 add use case for beam optimization in CCO**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon, ZTE, Pivotal Commware, PI Works*

(Replaces S5-193115)

**Decision:** The document was **revised to S5-193545**.

**S5-193545 pCR 28.861 add use case for beam optimization in CCO**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Intel Corporation (UK) Ltd, Verizon, ZTE, Pivotal Commware, PI Works*

(Replaces S5-193513)

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

**S5-193134 pCR 28.861 add use case of PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193511**.

**S5-193511 pCR 28.861 add use case of PCI configuration**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Huawei,Intel*

(Replaces S5-193134)

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

**S5-193135 pCR 28.861 update the title and concept of ANR management**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193503**.

**S5-193503 pCR 28.861 update the title and concept of ANR management**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Huawei*

(Replaces S5-193135)

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

**S5-193136 pCR 28.861 update the concept of trace and MDT**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Huawei*

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

**S5-193155 pCR 28.861 add use case for cross-slice network resource optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S5-193514**.

**S5-193514 pCR 28.861 add use case for cross-slice network resource optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: KPN N.V.*

(Replaces S5-193155)

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

**S5-193221 pCR 28.861 Add Multi-dimensional Resource Optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Verizon*

**Decision:** The document was **revised to S5-193520**.

**S5-193520 pCR 28.861 Add Multi-dimensional Resource Optimization**

*Type: pCR For: Approval  
 28.861 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell, Verizon*

(Replaces S5-193221)

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

**S5-193307 pCR discussion sequence**

*Type: other For: Information  
 28.861 v..  
 Source: Intel Corporation (UK) Ltd*

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

**S5-193508 Draft TR 28.861**

*Type: draft TR For: Approval  
 28.861 v0.5.0  
 Source: Intel*

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

#### 6.5.6 Study on non-file-based trace reporting

**S5-193035 Minutes of Study on non-file-based trace reporting**

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

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

#### 6.5.7 Study on non-public networks management

**S5-193036 Minutes of Study on non-public networks management**

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

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

**S5-193146 Initial skeleton of TR 28.807**

*Type: draft TR For: Approval  
 28.807 v0.0.0  
 Source: Huawei*

**Abstract:**

Initial skeleton

**Decision:** The document was **revised to S5-193521**.

**S5-193521 Initial skeleton of TR 28.807**

*Type: draft TR For: Approval  
 28.807 v0.0.1  
 Source: Huawei*

(Replaces S5-193146)

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

#### 6.5.8 Study on management and orchestration aspects with integrated satellite components in a 5G network

**S5-193037 Minutes of Study on management and orchestration aspects with integrated satellite components in a 5G network**

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

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

**S5-193123 Table of Content for TR 28.808 (FS\_5GSAT\_MO)**

*Type: draft TR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

Table of Content of TR 28.808

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

**S5-193124 Draft Introduction to TR 28.808 (FS\_5GSAT\_MO)**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

Draft Introduction to TR 28.808 (FS\_5GSAT\_MO)

**Decision:** The document was **revised to S5-193522**.

**S5-193522 Introduction to TR 28.808 (FS\_5GSAT\_MO)**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

(Replaces S5-193124)

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

**S5-193125 Draft Scope of TR 28.808 (FS\_5GSAT\_MO)**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Decision:** The document was **revised to S5-193523**.

**S5-193523 Scope of TR 28.808 (FS\_5GSAT\_MO)**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

(Replaces S5-193125)

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

**S5-193126 Draft Informative Annex A on General Characterics of Satellite Systems for TR 28.808**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

Draft Informative Annex A on General Characterics of Satellite Systems for TR 28.808

**Decision:** The document was **revised to S5-193524**.

**S5-193524 Informative Annex A on General Characterics of Satellite Systems for TR 28.808**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

(Replaces S5-193126)

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

**S5-193127 Informative Annex B on Reference Models for Satellite Components for TR 28.808**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

Draft Informative Annex B on Reference Models for Satellite Components for TR 28.808

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

**S5-193128 Use case on network slice with a satellite component**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

This pCR describes a use case where an operator provides a network slice as a service including a satellite component. The requirements for the description of the Network Slice are discussed.

**Decision:** The document was **revised to S5-193526**.

**S5-193526 Use case on network slice with a satellite component**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

(Replaces S5-193128)

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

**S5-193236 Use case on RAN Sharing of Satellite components**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

Draft use case on RAN Sharing of Satellite components

**Decision:** The document was **revised to S5-193527**.

**S5-193527 Use case on RAN Sharing of Satellite components**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

(Replaces S5-193236)

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

**S5-193237 Use case of Management of Satellite components**

*Type: pCR For: Agreement  
 28.808 v0.0.0  
 Source: THALES*

**Abstract:**

Draft use case of Management of Satellite components

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

**S5-193525 Draft TR 28.808**

*Type: draft TR For: Approval  
 28.808 v0.1.0  
 Source: Thales*

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

## 7 Charging

### 7.1 Charging Plenary

**S5-193038 CH Agenda and Time Plan**

*Type: agenda For: (not specified)  
 Source: CH SWG Chair*

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

**S5-193039 CH Executive Report**

*Type: report For: (not specified)  
 Source: CH SWG Chair*

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

**S5-193249 Reply LS from RAN3 cc SA5 on Data Volume Reporting for 5GC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-190935*

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

**S5-193255 Resubmitted LS 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**.

**S5-193256 LS from SA2 cc SA5 on VoWiFi – VoLTE handover**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1902884*

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

**S5-193474 Rel-16 SA5 Charging work – input for further consideration**

*Type: discussion For: discussion  
 Source: Charging SWG Chair*

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

### 7.2 New Charging Work Item proposals

**S5-193041 IMS Charging in 5G System Architecture**

*Type: WID new For: Agreement  
 Source: T-Mobile USA*

**Decision:** The document was **revised to S5-193311**.

**S5-193311 IMS Charging in 5G System Architecture**

*Type: WID new For: Agreement  
 Source: T-Mobile USA*

(Replaces S5-193041)

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

**S5-193070 New WID on Network Slice Charging in 5G System**

*Type: WID new For: Agreement  
 Source: Huawei*

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

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-193077 Rel-16 CR 32.290 Clarify the trigger mechanism**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0037 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193425**.

**S5-193425 Rel-16 CR 32.290 Clarify the trigger mechanism**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0037 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193077)

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

**S5-193078 Rel-15 CR 32.290 Clarify the trigger mechanism**

*Type: CR For: Agreement  
 32.290 v15.3.0 CR-0038 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193424**.

**S5-193424 Rel-15 CR 32.290 Clarify the trigger mechanism**

*Type: CR For: Agreement  
 32.290 v15.3.0 CR-0038 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-193078)

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

**S5-193079 Rel-16 CR 32.291 Add the reference for SMS charging**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0057 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-193080 Rel-16 CR 32.291 Correct the failure handling**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0058 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193341**.

**S5-193341 Rel-16 CR 32.291 Correct the failure handling**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0058 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-193080)

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

**S5-193081 Rel-16 CR 32.290 Addition of message retry**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0039 Cat: C (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193473**.

**S5-193473 Rel-16 CR 32.290 Addition of message retry**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0039 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193081)

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

**S5-193082 Rel-15 CR 32.290 Addition of message retry**

*Type: CR For: Agreement  
 32.290 v15.3.0 CR-0040 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-193096 Rel-15 CR 32.290 Correction on error handling**

*Type: CR For: Agreement  
 32.290 v15.3.0 CR-0041 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193342**.

**S5-193342 Rel-15 CR 32.290 Correction on error handling**

*Type: CR For: Agreement  
 32.290 v15.3.0 CR-0041 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193096)

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

**S5-193097 Rel-16 CR 32.290 Correction on error handling**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0042 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193343**.

**S5-193343 Rel-16 CR 32.290 Correction on error handling**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0042 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193097)

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

**S5-193098 Rel-15 CR 32.291 Correction on errors description**

*Type: CR For: Agreement  
 32.291 v15.2.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193423**.

**S5-193423 Rel-15 CR 32.291 Correction on errors description**

*Type: CR For: Agreement  
 32.291 v15.2.0 CR-0063 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193098)

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

**S5-193099 Rel-15 CR 32.291 Correction on Gateway timeout code**

*Type: CR For: Agreement  
 32.291 v15.2.0 CR-0064 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193177 Rel-15 CR 32.298 Corrections on ASN.1**

*Type: CR For: Agreement  
 32.298 v15.6.0 CR-0713 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193178 Rel-16 CR 32.298 Corrections on ASN.1**

*Type: CR For: Agreement  
 32.298 v16.0.0 CR-0714 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193204 Rel-15 CR 32.298 Correction of local sequence number**

*Type: CR For: Agreement  
 32.298 v15.6.0 CR-0715 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193426**.

**S5-193426 Rel-15 CR 32.298 Correction of local sequence number**

*Type: CR For: Agreement  
 32.298 v15.6.0 CR-0715 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell,Ericsson*

(Replaces S5-193204)

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

**S5-193205 Rel-16 CR 32.298 Correction of local sequence number**

*Type: CR For: Agreement  
 32.298 v16.0.0 CR-0716 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193427**.

**S5-193427 Rel-16 CR 32.298 Correction of local sequence number**

*Type: CR For: Agreement  
 32.298 v16.0.0 CR-0716 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193205)

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

**S5-193206 Rel-15 CR 32.291 Correction of used unit container attributes**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0065 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193207 Rel-15 CR 32.291 Correction on binding**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0066 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193471**.

**S5-193471 Rel-15 CR 32.291 Correction on binding**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0066 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193207)

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

**S5-193283 Rel-15 CR 32.290 Correction of Failure and Retry handling**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0045 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193344**.

**S5-193344 Rel-15 CR 32.290 Correction of Failure and Retry handling**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0045 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193283)

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

**S5-193284 Rel-15 CR 32.255 Correction of Termination action**

*Type: CR For: Approval  
 32.255 v15.2.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193345**.

**S5-193345 Rel-15 CR 32.255 Correction of Termination action**

*Type: CR For: Approval  
 32.255 v15.2.0 CR-0063 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193284)

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

**S5-193285 Rel-15 CR 32.290 Correction of result code classification**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0046 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-193286 Rel-15 CR 32.251 Adding APN rate-control information and remove editor's notes**

*Type: CR For: Approval  
 32.251 v15.4.0 CR-0513 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193428**.

**S5-193428 Rel-15 CR 32.251 Adding APN rate-control information and remove editor's notes**

*Type: CR For: Approval  
 32.251 v15.4.0 CR-0513 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193286)

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

**S5-193287 Rel-15 CR 32.298 Adding Rate-Control information and triggers to CDRs**

*Type: CR For: Approval  
 32.298 v15.6.0 CR-0717 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193429**.

**S5-193429 Rel-15 CR 32.298 Adding Rate-Control information and triggers to CDRs**

*Type: CR For: Approval  
 32.298 v15.6.0 CR-0717 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193287)

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

**S5-193288 Rel-15 CR 32.299 Adding Rate-Control information and triggers to Rf offline charging**

*Type: CR For: Approval  
 32.299 v15.6.0 CR-0821 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193430**.

**S5-193430 Rel-15 CR 32.299 Adding Rate-Control information and triggers to Rf offline charging**

*Type: CR For: Approval  
 32.299 v15.6.0 CR-0821 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193288)

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

**S5-193289 Rel-15 CR 32.290 Correction of termination handling**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0047 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-193290 Rel-15 CR 32.298 Correction of Presence Reporting Area**

*Type: CR For: Approval  
 32.298 v15.6.0 CR-0718 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193433**.

**S5-193433 Rel-15 CR 32.298 Correction of Presence Reporting Area**

*Type: CR For: Approval  
 32.298 v15.6.0 CR-0718 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193290)

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

**S5-193291 Rel-15 CR 32.290 Correction of QBC roaming definition**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0048 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-193292 Rel-15 CR 32.255 Correction of Start of a QoS Flow trigger**

*Type: CR For: Approval  
 32.255 v15.2.0 CR-0064 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193436**.

**S5-193436 Rel-15 CR 32.255 Correction of Start of a QoS Flow trigger**

*Type: CR For: Approval  
 32.255 v15.2.0 CR-0064 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193292)

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

**S5-193293 Rel-15 CR 32.255 Correction of missing SDF abbreviation**

*Type: CR For: Approval  
 32.255 v15.2.0 CR-0065 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193465**.

**S5-193465 Rel-16 CR 32.255 Correction of missing SDF abbreviation**

*Type: CR For: Approval  
 32.255 v15.2.0 CR-0065 rev 1 Cat: D (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-193293)

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

**S5-193294 Rel-15 CR 32.291 Correction of trigger type for start of service data flow**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0067 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-193295 Rel-15 CR 32.291 Correction of trigger type unit count inactivity timer**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0068 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193466**.

**S5-193466 Rel-15 CR 32.291 Correction of trigger type unit count inactivity timer**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0068 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193295)

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

**S5-193296 Rel-15 CR 32.298 Correction of usage of local sequence number import**

*Type: CR For: Approval  
 32.298 v15.6.0 CR-0719 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-193297 Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging release usage**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0069 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193467**.

**S5-193467 Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging release usage**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0069 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193297)

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

**S5-193298 Rel-15 CR 32.290 Correction of Release naming**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0049 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193468**.

**S5-193468 Rel-15 CR 32.290 Correction of Release naming**

*Type: CR For: Approval  
 32.290 v15.3.0 CR-0049 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193298)

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

**S5-193299 Rel-15 CR 32.291 Correction of missing http status codes**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0070 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193470**.

**S5-193470 Rel-15 CR 32.291 Correction of missing http status codes**

*Type: CR For: Approval  
 32.291 v15.2.1 CR-0070 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-193299)

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

**S5-193431 Adding Rate-Control information and triggers to CDRs**

*Type: CR For: Agreement  
 32.298 v16.0.0 CR-0720 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-193432 Adding Rate-Control information and triggers to Rf offline charging**

*Type: CR For: Agreement  
 32.299 v16.0.0 CR-0822 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-193434 Rel-16 CR 32.298 Correction of Presence Reporting Area**

*Type: CR For: Agreement  
 32.298 v16.0.0 CR-0721 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-193435 Rel-16 CR 32.290 Correction of QBC roaming definition**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0050 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-193437 Rel-16 CR 32.255 Correction of Start of a QoS Flow trigger**

*Type: CR For: Agreement  
 32.255 v.. CR-0066 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-193469 Rel-16 CR 32.290 Correction of Release naming**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0051 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

### 7.4 Rel-16 Charging

#### 7.4.1 Volume Based Charging Aspects for VoLTE

**S5-193060 Revised WID on Volume Based Charging Aspects for VoLTE**

*Type: WID revised For: (not specified)  
 Source: China Mobile*

**Decision:** The document was **revised to S5-193312**.

**S5-193312 Revised WID on Volume Based Charging Aspects for VoLTE**

*Type: WID revised For: -  
 Source: China Mobile*

(Replaces S5-193060)

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

#### 7.4.2 Nchf Online and Offline Charging Services

**S5-193083 CR Rel-16 32.255 Add detailed message format for offline only charging**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0060 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193313**.

**S5-193313 CR Rel-16 32.255 Add detailed message format for offline only charging**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0060 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193083)

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

**S5-193084 CR Rel-16 32.291 Add Offline only charging service API name**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0059 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193316**.

**S5-193316 CR Rel-16 32.291 Add Offline only charging service API name**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0059 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193084)

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

**S5-193085 CR Rel-16 32.291 Add Offline only charging service API resource definition**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0060 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193319**.

**S5-193319 CR Rel-16 32.291 Add Offline only charging service API resource definition**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0060 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193085)

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

**S5-193086 CR Rel-16 32.291 Add Offline only charging service API data model**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0061 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193320**.

**S5-193320 CR Rel-16 32.291 Add Offline only charging service API data model**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0061 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193086)

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

**S5-193087 CR Rel-16 32.291 Add Offline only charging service API error handling**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0062 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193321**.

**S5-193321 CR Rel-16 32.291 Add Offline only charging service API error handling**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0062 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193087)

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

**S5-193088 CR Rel-16 32.255 Add PCF rule for offline only charging service**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0061 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193314**.

**S5-193314 CR Rel-16 32.255 Add PCF rule for offline only charging service**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0061 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193088)

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

**S5-193100 Rel-16 CR 32.255 CHF selection in offline only**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0062 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193318**.

**S5-193318 Rel-16 CR 32.255 CHF selection in offline only**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0062 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193100)

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

**S5-193154 Rel-16 CR 32.290 Correct offline only charging service API name**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0043 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **revised to S5-193315**.

**S5-193315 Rel-16 CR 32.290 Correct offline only charging service API name**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0043 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-193154)

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

**S5-193176 Rel-16 CR 32.290 CHF profile for offline only**

*Type: CR For: Agreement  
 32.290 v16.0.0 CR-0044 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-193317 CR Rel-16 32.291 Add Offline only charging service API description**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0071 Cat: B (Rel-16)  
  
 Source: Huawei*

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

#### 7.4.3 Charging Enhancement of 5GC interworking with EPC

**S5-193071 Rel-16 Discussion Paper on Charging Identifier for 5GS and EPS**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**S5-193072 Rel-16 CR 32.255 Clarification on the Charging Identifier**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0056 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193322**.

**S5-193322 Rel-16 CR 32.255 Clarification on the Charging Identifier**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0056 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193072)

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

**S5-193073 Rel-16 CR 32.255 Clarify the Charging Session for interworking**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0057 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193323**.

**S5-193323 Rel-16 CR 32.255 Clarify the Charging Session for interworking**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0057 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193073)

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

**S5-193074 Rel-16 CR 32.255 Add the quota management for interworking**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0058 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193324**.

**S5-193324 Rel-16 CR 32.255 Add the quota management for interworking**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0058 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193074)

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

**S5-193075 Rel-16 CR 32.255 Definition of charging information for interworking with EPC**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0059 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193325**.

**S5-193325 Rel-16 CR 32.255 Definition of charging information for interworking with EPC**

*Type: CR For: Agreement  
 32.255 v16.0.0 CR-0059 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193075)

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

**S5-193076 Rel-16 CR 32.291 Definition of data model for interworking with EPC**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0056 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-193472**.

**S5-193472 Rel-16 CR 32.291 Definition of data model for interworking with EPC**

*Type: CR For: Agreement  
 32.291 v15.2.1 CR-0056 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-193076)

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

#### 7.4.4 Network Exposure Charging in 5G System Architecture

**S5-193280 Rel-16 CR 32.254 Addition of NEF charging data for Converged Charging**

*Type: CR For: Approval  
 32.254 v16.0.0 CR-0006 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193327**.

**S5-193327 Rel-16 CR 32.254 Addition of NEF charging data for Converged Charging**

*Type: CR For: Approval  
 32.254 v16.0.0 CR-0006 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-193280)

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

**S5-193281 Rel-16 CR 32.254 Addition of NEF charging information**

*Type: CR For: Approval  
 32.254 v16.0.0 CR-0007 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193328**.

**S5-193328 Rel-16 CR 32.254 Addition of NEF charging information**

*Type: CR For: Approval  
 32.254 v16.0.0 CR-0007 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-193281)

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

**S5-193282 Rel-16 CR 32.254 Addition of NEF trigger information**

*Type: CR For: Approval  
 32.254 v16.0.0 CR-0008 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193326**.

**S5-193326 Rel-16 CR 32.254 Addition of NEF trigger information**

*Type: CR For: Approval  
 32.254 v16.0.0 CR-0008 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-193282)

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

#### 7.4.5 Charging AMF in 5G System Architecture Phase 1

**S5-193090 Rel-16 pCR 32.256 N2 connection message flows**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193329**.

**S5-193329 Rel-16 pCR 32.256 N2 connection message flows**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193090)

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

**S5-193091 Rel-16 pCR 32.256 Applicable Triggers**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193330**.

**S5-193330 Rel-16 pCR 32.256 Applicable Triggers**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193091)

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

**S5-193092 Rel-16 pCR 32.256 CDRs generation**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193331**.

**S5-193331 Rel-16 pCR 32.256 CDRs generation**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193092)

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

**S5-193093 Rel-16 pCR 32.256 CDRs transfer**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193332**.

**S5-193332 Rel-16 pCR 32.256 CDRs transfer**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193093)

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

**S5-193094 Rel-16 pCR 32.256 Message content description**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193333**.

**S5-193333 Rel-16 pCR 32.256 Message content description**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193094)

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

**S5-193095 Rel-16 pCR 32.256 Connection Mobility charging information**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-193334**.

**S5-193334 Rel-16 pCR 32.256 Connection Mobility charging information**

*Type: pCR For: Approval  
 32.256 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-193095)

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

**S5-193340 Draft TS 32.256**

*Type: draft TR For: Approval  
 32.256 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

### 7.5 Charging Studies

#### 7.5.1 Study on Charging Aspects of Network Slicing

**S5-193066 Rel-16 Discussion Paper on the performance based charging for network slice**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**S5-193067 Rel-16 pCR TR 32.845 Add the solution evaluation for performance based charging**

*Type: pCR For: Agreement  
 32.845 v0.3.0  
 Source: Huawei*

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

**S5-193068 Rel-16 pCR TR 32.845 Clarify the interaction with management system**

*Type: pCR For: Agreement  
 32.845 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-193337**.

**S5-193337 Rel-16 pCR TR 32.845 Clarify the interaction with management system**

*Type: pCR For: Agreement  
 32.845 v0.3.0  
 Source: Huawei*

(Replaces S5-193068)

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

**S5-193069 Rel-16 pCR TR 32.845 Clarify the Network slice instance charging**

*Type: pCR For: Agreement  
 32.845 v0.3.0  
 Source: Huawei*

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

**S5-193208 Rel-16 pCR 32.845 Addition of solution for NSI Performance Charging**

*Type: pCR For: Agreement  
 32.845 v0.3.0  
 Source: Openet Telecom*

**Abstract:**

This pCR is the addition of an alternative solution for network slice instance performance based charging for Key Issue #1.1

**Decision:** The document was **revised to S5-193335**.

**S5-193335 Rel-16 pCR 32.845 Addition of solution for NSI Performance Charging**

*Type: pCR For: Agreement  
 32.845 v0.3.0  
 Source: Openet Telecom*

(Replaces S5-193208)

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

**S5-193219 Rel-16 pCR 32.845 Addition of solution evaluation for solution #1.4**

*Type: pCR For: Approval  
 32.845 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-193336**.

**S5-193336 Rel-16 pCR 32.845 Addition of solution evaluation for solution #1.4**

*Type: pCR For: Approval  
 32.845 v0.3.0  
 Source: Ericsson*

(Replaces S5-193219)

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

**S5-193220 Rel-16 pCR 32.845 Updating evaluation**

*Type: pCR For: Approval  
 32.845 v0.3.0  
 Source: Ericsson*

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

**S5-193238 Rel-16 pCR 32.845 Clarification of aggregation for NSI Charging**

*Type: pCR For: Approval  
 32.845 v0.3.0  
 Source: Openet Telecom*

**Abstract:**

This pCR is to clarify the role of CGF in the aggregation of NSI Charging Information

**Decision:** The document was **revised to S5-193338**.

**S5-193338 Rel-16 pCR 32.845 Clarification of aggregation for NSI Charging**

*Type: pCR For: Approval  
 32.845 v0.3.0  
 Source: Openet Telecom*

(Replaces S5-193238)

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

**S5-193339 Draft R 32.845**

*Type: draft TR For: Approval  
 32.845 v0.4.0  
 Source: Huawei*

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

## 8 Any Other Business

It was clarified that the term "conditionally agreed" for CRs meant that the technical content was agreed but that they needed to be resubmitted to the next SA5 meeting given that the stage 3 CRs were missing. They will be sent together as a package to the SA plenary in September.

The Chair reminded the delegates to stay in the meeting hotel as this affects the budget of North-American Friends.

The Chair commented that elections for the August meeting were to be held for the SA5 leadership. He expressed his intention to continue unless another candidate challenged his position. He reminded that at least a new vice Chair would be needed given that Christian Toche (Huawei) had already confirmed that he would step down.

It was confirmed that the next meeting in Sapporo would not record voting rights given that it was an ad-hoc, but that it would have decision power.

## 9 Closing of the meeting

The Chair thanked the delegates for the hard work during the week and to North American Friends for hosting. After this, the meeting was closed.

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-193000 | Agenda | WG Chairman | approved |  |  |
| S5-193001 | IPR and legal declaration | WG Chairman | noted |  |  |
| S5-193002 | Report from last SA5 meeting | MCC | approved |  |  |
| S5-193003 | Leaders meeting agenda | WG Chairman | noted |  |  |
| S5-193004 | Leaders meeting minutes | WG Chairman | noted |  |  |
| S5-193005 | SA5 Working Procedures | WG Vice Chair (Huawei) | noted |  |  |
| S5-193006 | SA5 Meeting Facility Requirements | WG Vice Chair (Orange) | noted |  |  |
| S5-193007 | Process for management of draft TSs/TRs | WG Chairman | noted |  |  |
| S5-193008 | CR Quality Check | MCC | noted |  |  |
| S5-193009 | Status of email approvals | WG Vice Chair (Orange) | Not treated |  |  |
| S5-193010 | SA5 Meeting Calendar | WG Chairman | noted |  |  |
| S5-193011 | 3GPP SA5 Work Plan | MCC | noted |  |  |
| S5-193012 | Time Plan for OAM&P | WG Vice Chair (Huawei) | noted |  |  |
| S5-193013 | OAM Executive Report | WG Vice Chair (ORANGE) | revised |  | S5-193551 |
| S5-193014 | OAM&P SWG action list | WG Vice Chair (Huawei) | revised |  | S5-193510 |
| S5-193015 | SA5 status report at last SA meeting | WG Chairman | noted |  |  |
| S5-193016 | SA5 results at last SA meeting | WG Chairman | noted |  |  |
| S5-193017 | Minutes of OAM&P SWG opening session | WG Vice Chair (Huawei) | noted |  |  |
| S5-193018 | Minutes of New Work Item proposals - OAM&P | WG Vice Chair (Orange) | withdrawn |  |  |
| S5-193019 | Minutes of OAM&P Maintenance and Rel-16 small Enhancements | MCC | noted |  |  |
| S5-193020 | Minutes of Management of QoE measurement collection | Rapporteur (Ericsson) | noted |  |  |
| S5-193021 | Minutes of Energy effciency of 5G | Rapporteur (ORANGE) | noted |  |  |
| S5-193022 | Minutes of Network policy management for mobile networks based on NFV scenarios | Rapporteur (China Mobile) | withdrawn |  |  |
| S5-193023 | Minutes of Methodology for 5G management specifications | Rapporteur (Ericsson) | revised |  | S5-193532 |
| S5-193024 | Minutes of Intent driven management service for mobile networks | Rapporteur (Huawei) | revised |  | S5-193533 |
| S5-193025 | Minutes of Enhancement of performance assurance for 5G networks including network slicing | Rapporteur (Intel) | revised |  | S5-193535 |
| S5-193026 | Minutes of Discovery of management services in 5G | Rapporteur (Huawei) | revised |  | S5-193539 |
| S5-193027 | Minutes of NRM enhancements | Rapporteur (Nokia) | revised |  | S5-193515 |
| S5-193028 | Minutes of Trace Management in the context of Services Based Management Architecture | Rapporteur (Nokia) | noted |  |  |
| S5-193029 | Minutes of Integration of ONAP and 3GPP 5G management framework | Rapporteur (AT&T) | noted |  |  |
| S5-193030 | Minutes of Study on protocol enhancement for real time communication | Rapporteur(Nokia) | withdrawn |  |  |
| S5-193031 | Minutes of Study on management aspects of edge computing | Rapporteur (Intel) | revised |  | S5-193537 |
| S5-193032 | Minutes of Study on tenancy concept in 5G networks and network slicing management | Rapporteur (Huawei) | noted |  |  |
| S5-193033 | Minutes of Study on management aspects of communication services | Rapporteur (Ericsson) | noted |  |  |
| S5-193034 | Minutes of Study on Self-Organizing Networks (SON) for 5G | Rapporteur (Intel) | noted |  |  |
| S5-193035 | Minutes of Study on non-file-based trace reporting | Rapporteur(Nokia) | withdrawn |  |  |
| S5-193036 | Minutes of Study on non-public networks management | Rapporteur (Huawei) | noted |  |  |
| S5-193037 | Minutes of Study on management and orchestration aspects with integrated satellite components in a 5G network | Rapporteur (Thales) | noted |  |  |
| S5-193038 | CH Agenda and Time Plan | CH SWG Chair | approved |  |  |
| S5-193039 | CH Executive Report | CH SWG Chair | noted |  |  |
| S5-193040 | 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 | S5-192312 | S5-193401 |
| S5-193041 | IMS Charging in 5G System Architecture | T-Mobile USA | revised |  | S5-193311 |
| S5-193042 | pCR to TR 28.861 Service quality optimization | Cisco Systems Inc. | revised |  | S5-193498 |
| S5-193043 | pCR to TR 28.861 CCO and Coordination | Cisco Systems Inc. | revised |  | S5-193499 |
| S5-193044 | pCR to TR 28.861 Inter-Cell Interference | Cisco Systems Inc. | revised |  | S5-193500 |
| S5-193045 | pCR to TR 28.861 MRO Use Case corrections | Cisco Systems Inc. | revised |  | S5-193501 |
| S5-193046 | pCR to TR 28.861 Multi-vendor Plug and Play UC | Cisco Systems Inc. | withdrawn |  |  |
| S5-193047 | pCR to TR 28.861 Neighbour Cell Relations | Cisco Systems Inc. | noted |  |  |
| S5-193048 | pCR to TR 28.861 NSI resource allocation optimization | Cisco Systems Inc. | revised |  | S5-193504 |
| S5-193049 | pCR to TR 28.861 RACH Optimization | Cisco Systems Inc. | revised |  | S5-193505 |
| S5-193050 | pCR to TR 28.861 References fix | Cisco Systems Inc. | revised |  | S5-193502 |
| S5-193051 | pCR to TR 28.861 Self-establishment of the NF | Cisco Systems Inc. | revised |  | S5-193506 |
| S5-193052 | pCR to TR 28.861 SON in multiple domains | Cisco Systems Inc. | revised |  | S5-193507 |
| S5-193053 | pCR to TR 28.861 Trace and MDT | Cisco Systems Inc. | approved |  |  |
| S5-193054 | pCR to TR 28.805 SLA assurance | Cisco Systems Inc. | revised |  | S5-193480 |
| S5-193055 | pCR to TR 28.805 Types of communication services | Cisco Systems Inc. | revised |  | S5-193481 |
| S5-193056 | Discussion paper on the need to restructure TS 28.532 | AT&T, Orange | revised |  | S5-193352 |
| S5-193057 | Introducing GST and NEST | Orange Romania | not pursued |  | - |
| S5-193058 | Add use case and definitions of packet loss measurement over N3 | ETRI | revised |  | S5-193382 |
| S5-193059 | Add use case and definitions of packet delay measurement over N3 | ETRI | revised |  | S5-193383 |
| S5-193060 | Revised WID on Volume Based Charging Aspects for VoLTE | China Mobile | revised |  | S5-193312 |
| S5-193061 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Addition for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | revised |  | S5-193384 |
| S5-193062 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Change for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | withdrawn |  |  |
| S5-193063 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Modification for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | withdrawn |  |  |
| S5-193064 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Release for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | withdrawn |  |  |
| S5-193065 | pCR to TR 28.805 Service quality assurance and optimization | Cisco Systems Inc. | revised |  | S5-193489 |
| S5-193066 | Rel-16 Discussion Paper on the performance based charging for network slice | Huawei | noted |  |  |
| S5-193067 | Rel-16 pCR TR 32.845 Add the solution evaluation for performance based charging | Huawei | noted |  |  |
| S5-193068 | Rel-16 pCR TR 32.845 Clarify the interaction with management system | Huawei | revised |  | S5-193337 |
| S5-193069 | Rel-16 pCR TR 32.845 Clarify the Network slice instance charging | Huawei | approved |  |  |
| S5-193070 | New WID on Network Slice Charging in 5G System | Huawei | noted |  |  |
| S5-193071 | Rel-16 Discussion Paper on Charging Identifier for 5GS and EPS | Huawei | noted |  |  |
| S5-193072 | Rel-16 CR 32.255 Clarification on the Charging Identifier | Huawei | revised |  | S5-193322 |
| S5-193073 | Rel-16 CR 32.255 Clarify the Charging Session for interworking | Huawei | revised |  | S5-193323 |
| S5-193074 | Rel-16 CR 32.255 Add the quota management for interworking | Huawei | revised |  | S5-193324 |
| S5-193075 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | revised |  | S5-193325 |
| S5-193076 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | revised |  | S5-193472 |
| S5-193077 | Rel-16 CR 32.290 Clarify the trigger mechanism | Huawei | revised |  | S5-193425 |
| S5-193078 | Rel-15 CR 32.290 Clarify the trigger mechanism | Huawei | revised |  | S5-193424 |
| S5-193079 | Rel-16 CR 32.291 Add the reference for SMS charging | Huawei | agreed |  |  |
| S5-193080 | Rel-16 CR 32.291 Correct the failure handling | Huawei | revised |  | S5-193341 |
| S5-193081 | Rel-16 CR 32.290 Addition of message retry | Huawei | revised |  | S5-193473 |
| S5-193082 | Rel-15 CR 32.290 Addition of message retry | Huawei | not pursued |  |  |
| S5-193083 | CR Rel-16 32.255 Add detailed message format for offline only charging | Huawei | revised |  | S5-193313 |
| S5-193084 | CR Rel-16 32.291 Add Offline only charging service API name | Huawei | revised |  | S5-193316 |
| S5-193085 | CR Rel-16 32.291 Add Offline only charging service API resource definition | Huawei | revised |  | S5-193319 |
| S5-193086 | CR Rel-16 32.291 Add Offline only charging service API data model | Huawei | revised |  | S5-193320 |
| S5-193087 | CR Rel-16 32.291 Add Offline only charging service API error handling | Huawei | revised |  | S5-193321 |
| S5-193088 | CR Rel-16 32.255 Add PCF rule for offline only charging service | Huawei | revised |  | S5-193314 |
| S5-193089 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193364 |
| S5-193090 | Rel-16 pCR 32.256 N2 connection message flows | Nokia, Nokia Shanghai Bell | revised |  | S5-193329 |
| S5-193091 | Rel-16 pCR 32.256 Applicable Triggers | Nokia, Nokia Shanghai Bell | revised |  | S5-193330 |
| S5-193092 | Rel-16 pCR 32.256 CDRs generation | Nokia, Nokia Shanghai Bell | revised |  | S5-193331 |
| S5-193093 | Rel-16 pCR 32.256 CDRs transfer | Nokia, Nokia Shanghai Bell | revised |  | S5-193332 |
| S5-193094 | Rel-16 pCR 32.256 Message content description | Nokia, Nokia Shanghai Bell | revised |  | S5-193333 |
| S5-193095 | Rel-16 pCR 32.256 Connection Mobility charging information | Nokia, Nokia Shanghai Bell | revised |  | S5-193334 |
| S5-193096 | Rel-15 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | revised |  | S5-193342 |
| S5-193097 | Rel-16 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | revised |  | S5-193343 |
| S5-193098 | Rel-15 CR 32.291 Correction on errors description | Nokia, Nokia Shanghai Bell | revised |  | S5-193423 |
| S5-193099 | Rel-15 CR 32.291 Correction on Gateway timeout code | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-193100 | Rel-16 CR 32.255 CHF selection in offline only | Nokia, Nokia Shanghai Bell | revised |  | S5-193318 |
| S5-193101 | Add missing annex with information on probable causes | Ericsson Inc. | not pursued |  | - |
| S5-193102 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193362 |
| S5-193103 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193361 |
| S5-193104 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193360 |
| S5-193105 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193359 |
| S5-193106 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193358 |
| S5-193107 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193357 |
| S5-193108 | Corrections of the document references information | Ericsson Inc. | revised |  | S5-193356 |
| S5-193109 | pCR 28.803 add introduction | Intel Corporation (UK) Ltd | revised |  | S5-193458 |
| S5-193110 | pCR 28.803 add a solution for end-to-end performance assurance | Intel Corporation (UK) Ltd | revised |  | S5-193459 |
| S5-193111 | pCR 28.803 add conclusion | Intel Corporation (UK) Ltd | revised |  | S5-193461 |
| S5-193112 | pCR 28.861 add use case for automatic NSI creation | Intel Corporation (UK) Ltd, Verizon | revised |  | S5-193509 |
| S5-193113 | pCR 28.861 add use case for PCI configuration | Intel Corporation (UK) Ltd, Verizon | merged |  | S5-193511 |
| S5-193114 | pCR 28.803 solution for ANR optimization | Intel Corporation (UK) Ltd, Verizon | revised |  | S5-193512 |
| S5-193115 | pCR 28.861 add use case for beam optimization in CCO | Intel Corporation (UK) Ltd, Verizon, ZTE, Pivotal Commware, PI Works | revised |  | S5-193513 |
| S5-193116 | Rel-16 CR 28.622 Add IOCs for threshold monitoring control | Intel Corporation SAS | revised |  | S5-193379 |
| S5-193117 | Rel-16 CR 28.623 Add IOCs for threshold monitoring control | Intel Corporation SAS | agreed |  | - |
| S5-193118 | Rel-16 CR 28.550 Add performance threshold monitoring service | Intel Corporation SAS | revised |  | S5-193381 |
| S5-193119 | Discussion on Stage 3 of performance data streaming based on WebSocket | Intel Corporation SAS | noted |  |  |
| S5-193120 | Discussion on way forward for MDAS | Intel Corporation SAS | noted |  |  |
| S5-193121 | Rel-16 CR 28.552 Add measurements related to Service Requests via Untrusted non-3GPP Access | Intel Corporation SAS | revised |  | S5-193385 |
| S5-193122 | Rel-16 CR 28.552 Add measurements related to PDU session resource management via Untrusted non-3GPP Access | Intel Corporation SAS | agreed |  |  |
| S5-193123 | Table of Content for TR 28.808 (FS\_5GSAT\_MO) | THALES | approved |  |  |
| S5-193124 | Draft Introduction to TR 28.808 (FS\_5GSAT\_MO) | THALES | revised |  | S5-193522 |
| S5-193125 | Draft Scope of TR 28.808 (FS\_5GSAT\_MO) | THALES | revised |  | S5-193523 |
| S5-193126 | Draft Informative Annex A on General Characterics of Satellite Systems for TR 28.808 | THALES | revised |  | S5-193524 |
| S5-193127 | Informative Annex B on Reference Models for Satellite Components for TR 28.808 | THALES | approved |  |  |
| S5-193128 | Use case on network slice with a satellite component | THALES | revised |  | S5-193526 |
| S5-193129 | Rel-16 CR 32.425 Add measurement on RRC connection usage per UE multi-RAT capability | P.I. WORKS | revised |  | S5-193363 |
| S5-193130 | pCR 28.812 Update Clause 4.3 Automation mechanisms and intent driven management | Huawei | approved |  |  |
| S5-193131 | pCR 28.812 Add description of intent translation | Huawei | revised |  | S5-193370 |
| S5-193132 | pCR 28.812 Add key information for intent expression of existing scenarios | Huawei | noted |  | - |
| S5-193133 | pCR 28.812 Add introduction and standard consideration for IDMS | Huawei | revised |  | S5-193372 |
| S5-193134 | pCR 28.861 add use case of PCI configuration | Huawei | revised |  | S5-193511 |
| S5-193135 | pCR 28.861 update the title and concept of ANR management | Huawei | revised |  | S5-193503 |
| S5-193136 | pCR 28.861 update the concept of trace and MDT | Huawei | merged |  | S5-193502 |
| S5-193137 | Rel-15 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | revised |  | S5-193451 |
| S5-193138 | Rel-16 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | revised |  | S5-193452 |
| S5-193139 | Rel-15 CR TS 28.541 Remove attribute availabilityStatus in NRCellDU IOC | Huawei,Ericsson | agreed |  |  |
| S5-193140 | Rel-16 CR TS 28.541 Remove attribute availabilityStatus in NRCellDU IOC | Huawei,Ericsson | agreed |  |  |
| S5-193141 | Rel-15 CR TS 28.541 Correct the definition for nsInfo | Huawei | revised |  | S5-193413 |
| S5-193142 | Rel-16 CR TS 28.541 Correct the definition for nsInfo | Huawei | revised |  | S5-193414 |
| S5-193143 | Rel-16 CR 28.531 Editor's change for configuration management service | Huawei Tech.(UK) Co., Ltd | revised |  | S5-193416 |
| S5-193144 | Rel-15 CR TS 32.425 Correction on kbits abbreviation | Huawei | revised |  | S5-193417 |
| S5-193145 | Rel-16 CR TS 32.425 Correction on kbits abbreviation | Huawei | revised |  | S5-193418 |
| S5-193146 | Initial skeleton of TR 28.807 | Huawei | revised |  | S5-193521 |
| S5-193147 | YANG solution additional considerations | Ericsson Inc. | noted |  | - |
| S5-193148 | YANG solution Recommendation to Stage 2 Model Design | Ericsson Inc. | noted |  |  |
| S5-193149 | YANG solution style guide | Ericsson Inc. | noted |  | - |
| S5-193150 | Use one style for all enumeration | Ericsson Inc. | revised |  | S5-193455 |
| S5-193151 | Mapping rule between DN and URI | Ericsson Inc. | revised |  | S5-193419 |
| S5-193152 | Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | revised |  | S5-193462 |
| S5-193153 | Rel-16 CR 28.622 Add NRM fragment supporting the management of notifications recipients | AT&T, Deutsche Telekom, Orange | not pursued |  |  |
| S5-193154 | Rel-16 CR 32.290 Correct offline only charging service API name | Huawei Tech.(UK) Co., Ltd | revised |  | S5-193315 |
| S5-193155 | pCR 28.861 add use case for cross-slice network resource optimization | KPN N.V. | revised |  | S5-193514 |
| S5-193156 | Rel-16 CR 28.533 Add examples of ONAP utilizing the MnSs provided by 3GPP MnS Producer | Huawei Tech.(UK) Co., Ltd | revised |  | S5-193412 |
| S5-193157 | 28.805 Add UC and requirements for CSI monitoring | Huawei | revised |  | S5-193488 |
| S5-193158 | CR Rel-16 TS 28.533 Add further clarification of metadata attributes | Huawei | not pursued |  | - |
| S5-193159 | CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance | Huawei | revised |  | S5-193392 |
| S5-193160 | Discussion paper about MnS instance metainformation | Huawei | noted |  |  |
| S5-193161 | Representation for tenant in 3GPP management system | Huawei | revised |  | S5-193475 |
| S5-193162 | Management entity for tenant in 3GPP management system | Huawei | revised |  | S5-193476 |
| S5-193163 | Add tenant definition in 3GPP management system | Huawei | revised |  | S5-193478 |
| S5-193164 | Discussion paper on PEE measurement data collection for NG-RAN | Huawei, Ericsson, Orange | endorsed |  |  |
| S5-193165 | pCR 28.310 Add requirements of PEE measurement data collection for NG-RAN | Huawei | revised |  | S5-193366 |
| S5-193166 | pCR 28.310 Update EE concept | Huawei, Orange | revised |  | S5-193367 |
| S5-193167 | pCR 32.160 Resolution of the editors note in W4.3.a.2 | Huawei | noted |  |  |
| S5-193168 | pCR 28.805 CSMF functionalities | Huawei, Ericsson | revised |  | S5-193487 |
| S5-193169 | pCR 28.805 Update use case of communication service instances realization | Huawei | revised |  | S5-193490 |
| S5-193170 | pCR 28.805 Add CSI lifecyle concept | Huawei, Ericsson | revised |  | S5-193485 |
| S5-193171 | pCR 28.805 Add CSI-NSI lifecycle relation concept | Huawei, Ericsson | revised |  | S5-193486 |
| S5-193172 | pCR 28.804 Add tenant type description | Huawei | withdrawn |  |  |
| S5-193173 | pCR 28.812 Add description for level of automation in mobile network management | Huawei Tech.(UK) Co., Ltd | withdrawn |  |  |
| S5-193174 | Discussion paper on Scope and bounderies for Intent Based Management | Ericsson Inc. | revised |  | S5-193373 |
| S5-193175 | pCR 28.812 Clarification of the dimensions | Ericsson Inc. | revised |  | S5-193374 |
| S5-193176 | Rel-16 CR 32.290 CHF profile for offline only | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-193177 | Rel-15 CR 32.298 Corrections on ASN.1 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-193178 | Rel-16 CR 32.298 Corrections on ASN.1 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-193179 | Revised WID on energy efficiency of 5G | Orange Romania | revised |  | S5-193368 |
| S5-193180 | Update the feedback description | Huawei Tech.(UK) Co., Ltd | revised |  | S5-193375 |
| S5-193181 | pCR 28.812 Abstraction versus layering | Ericsson Inc. | revised |  | S5-193376 |
| S5-193182 | pCR 28.812 Clarification of relation between intent and policy | Ericsson Inc. | revised |  | S5-193377 |
| S5-193183 | pCR 28.812 Intent lifecycle management aspects | Ericsson Inc. | revised |  | S5-193378 |
| S5-193184 | Add missing (NR) cell and frequency relation | Ericsson Inc. | revised |  | S5-193529 |
| S5-193185 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | revised |  | S5-193409 |
| S5-193186 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | revised |  | S5-193410 |
| S5-193187 | Update NRM requirement to support SBA management | Nokia, Nokia Shanghai Bell | revised |  | S5-193396 |
| S5-193188 | Update UIM Information Service to support Service\_ Object | Nokia, Nokia Shanghai Bell | revised |  | S5-193397 |
| S5-193189 | Update generic NRM Information Service to support Managed Service Object | Nokia, Nokia Shanghai Bell | revised |  | S5-193398 |
| S5-193190 | Update 5GC Information Service to align with Managed Service Definition | Nokia, Nokia Shanghai Bell | revised |  | S5-193399 |
| S5-193191 | TD Resource sharing between multiple PLMNs | Nokia, Nokia Shanghai Bell | noted |  | - |
| S5-193192 | Enhance RRM Policy to support resource sharing between multiple PLMNs | Nokia, Nokia Shanghai Bell | not pursued |  | - |
| S5-193193 | TD Trace Management in the context of Services Based Management Architecture | Nokia, Nokia Shanghai Bell | noted |  | - |
| S5-193194 | TD Broadcasting cell quality issue | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-193195 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-193196 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-193197 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc. | revised |  | S5-193420 |
| S5-193198 | Correct pLMNIdList parameter | Ericsson Inc. | not pursued |  | - |
| S5-193199 | pCR TR28.812: Editorial clarifications on Intent expression | NEC Telecom MODUS Ltd. | approved |  |  |
| S5-193200 | MnS discovery | Nokia, Nokia Shanghai Bell | revised |  | S5-193395 |
| S5-193201 | CR 32.158 Correct the DN to URI mapping rules | Nokia, Nokia Shanghai Bell | revised |  | S5-193479 |
| S5-193202 | pCR 32.160 JSON schema and YANG mapping rules | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-193203 | TD Various issues in JSON schema and YANG stage 3 defintions | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-193204 | Rel-15 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell | revised |  | S5-193426 |
| S5-193205 | Rel-16 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell | revised |  | S5-193427 |
| S5-193206 | Rel-15 CR 32.291 Correction of used unit container attributes | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-193207 | Rel-15 CR 32.291 Correction on binding | Nokia, Nokia Shanghai Bell | revised |  | S5-193471 |
| S5-193208 | Rel-16 pCR 32.845 Addition of solution for NSI Performance Charging | Openet Telecom | revised |  | S5-193335 |
| S5-193209 | pCR 28.804 Add tenant type description | Huawei | revised |  | S5-193477 |
| S5-193210 | Discussion paper around beam types | Ericsson-LG Co., LTD | revised |  | S5-193422 |
| S5-193211 | pCR R16 28405-050 Change clause structure | Ericsson | approved |  |  |
| S5-193212 | pCR R16 28405-050 Introduce missing abbreviations | Ericsson | approved |  |  |
| S5-193213 | Introduction of deactivation of QMC in LTE | Ericsson | approved |  |  |
| S5-193214 | Add measurements related to inter gNB Handover | Ericsson-LG Co., LTD | revised |  | S5-193386 |
| S5-193215 | Introduction of management based activated QMC handling at handover for LTE | Ericsson | approved |  |  |
| S5-193216 | Introduction of Management based activation QMC for LTE | Ericsson | approved |  |  |
| S5-193217 | Add measurements related to intra gNB Handover | Ericsson-LG Co., LTD | revised |  | S5-193387 |
| S5-193218 | Add KPI for NG-RAN Handover Success Rate | Ericsson-LG Co., LTD | revised |  | S5-193388 |
| S5-193219 | Rel-16 pCR 32.845 Addition of solution evaluation for solution #1.4 | Ericsson | revised |  | S5-193336 |
| S5-193220 | Rel-16 pCR 32.845 Updating evaluation | Ericsson | noted |  |  |
| S5-193221 | pCR 28.861 Add Multi-dimensional Resource Optimization | Nokia, Nokia Shanghai Bell, Verizon | revised |  | S5-193520 |
| S5-193222 | pCR 28.805 Introduce connection to layering | Ericsson GmbH, Eurolab | revised |  | S5-193482 |
| S5-193223 | pCR 28.805 Introduce management model | Ericsson GmbH, Eurolab | revised |  | S5-193483 |
| S5-193224 | pCR 28.805 Introduction communication service management exposure model | Ericsson GmbH, Eurolab | noted |  |  |
| S5-193225 | pCR 28.805 Use case and requirement for management of multi-site communication service | Ericsson GmbH, Eurolab,Deutsche Telekom | noted |  | - |
| S5-193226 | pCR 28.805 Use case and requirement to activate a resource facing communication service | Ericsson GmbH, Eurolab,Deutsche Telekom | revised |  | S5-193492 |
| S5-193227 | S5-193xxx pCR 28.805 Use case and requirement to create a resource facing communication service | Ericsson GmbH, Eurolab | revised |  | S5-193493 |
| S5-193228 | pCR 28.805 Use case and requirement to de-activate a resource facing communication service | Ericsson GmbH, Eurolab | revised |  | S5-193494 |
| S5-193229 | pCR 28.805 Use case and requirement to modify a resource facing communication service | Ericsson GmbH, Eurolab | revised |  | S5-193495 |
| S5-193230 | pCR 28.805 Use case and requirement to terminate a resource facing communication service | Ericsson GmbH, Eurolab | revised |  | S5-193496 |
| S5-193231 | pCR 32.160 Stage 2 to stage 3 mapping | Ericsson GmbH, Eurolab | noted |  |  |
| S5-193232 | Presentation of Specification to TSG TR 28.805 | Ericsson GmbH, Eurolab | approved |  |  |
| S5-193233 | Presentation of Specification to TSG TS 32.160 | Ericsson GmbH, Eurolab | withdrawn |  |  |
| S5-193234 | Presentation of Specification to TSG TS 32.160 | Ericsson GmbH, Eurolab | noted |  |  |
| S5-193235 | Sequence proposal for study on management aspects of communication services | Ericsson GmbH, Eurolab | noted |  |  |
| S5-193236 | Use case on RAN Sharing of Satellite components | THALES | revised |  | S5-193527 |
| S5-193237 | Use case of Management of Satellite components | THALES | approved |  |  |
| S5-193238 | Rel-16 pCR 32.845 Clarification of aggregation for NSI Charging | Openet Telecom | revised |  | S5-193338 |
| S5-193239 | Correct UML diagram and role-attribute of slice NRM | Ericsson Inc. Huawei | revised |  | S5-193438 |
| S5-193240 | Correct definition of configuredMaxTxPower | Ericsson Inc. | agreed |  |  |
| S5-193241 | Correct style for Definition | Ericsson Inc. | revised |  | S5-193439 |
| S5-193242 | Add RP attribute and disambiguate the delivery method attributes | Ericsson Inc. | revised |  | S5-193440 |
| S5-193243 | Correct use of Proxy class | Ericsson Inc. | revised |  | S5-193447 |
| S5-193244 | correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | revised |  | S5-193405 |
| S5-193245 | LS from CT to SA5 on Handling of non-essential corrections (non-FASMO) CRs and non-backwards compatible CRs | CP-190218 | noted |  |  |
| S5-193246 | LS from RAN1 to SA5 on completion of CLI-RIM in RAN1 | R1-1903676 | postponed |  |  |
| S5-193247 | Ls from RAN2 cc SA5 on L1 and L2 measurements | R2-1902806 | noted |  |  |
| S5-193248 | LS from RAN2 to SA5 on network slicing terminology | R2-1902823 | noted |  |  |
| S5-193249 | Reply LS from RAN3 cc SA5 on Data Volume Reporting for 5GC | R3-190935 | noted |  |  |
| S5-193250 | Reply LS from RAN3 ccSA5 on providing information on SLA fulfilment to NG-RAN | R3-191091 | noted |  |  |
| S5-193251 | Resubmitted LS from ITU-TSG12 to SA5 on Draft new Recommendation E.RQST – “KPI targets for mobile networks” | ITU-T SG12 | noted |  |  |
| S5-193252 | LS from TSG RAN ccSA5 on Draft new Recommendation E.RQST – “KPI targets for mobile networks” | RP-190673 | noted |  |  |
| S5-193253 | LS from TSG SA ccSA5 in reply to LS on Draft new Recommendation E.RQST – “KPI targets for mobile networks”LS in reply to LS on Draft new Recommendation E.RQST – “KPI targets for mobile networks” | SP-190269 | noted |  |  |
| S5-193254 | LS from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter | S2-1902847 | postponed |  |  |
| S5-193255 | Resubmitted LS to SA2 and SA5 on VoWiFi – VoLTE handover | GSMA | postponed |  |  |
| S5-193256 | LS from SA2 cc SA5 on VoWiFi – VoLTE handover | S2-1902884 | noted |  |  |
| S5-193257 | LS from TSG SA ccSA5 on Information on MEC work on 5G | SP-190251 | noted |  |  |
| S5-193258 | LS from SA2 ccSA5 on Information on MEC work on 5G | S2-1902907 | noted |  |  |
| S5-193259 | LS from ITU-T SG2 to SA5 on cooperation on methodology harmonization and REST-based network management framework | ITU-T SG2 | postponed |  |  |
| S5-193260 | 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 | noted |  |  |
| S5-193261 | CR Rel-16 TS 28.533 Add use case of discovery of MnS instance metainformation | Huawei Technologies (Korea) | revised |  | S5-193394 |
| S5-193262 | CR Rel-16 28.541 Add datatype definition for NfProfile | Ericsson GmbH, Eurolab | revised |  | S5-193406 |
| S5-193263 | CR Rel-16 28.541 Add missing clauses to RRMPolicyRatio2 data type | Ericsson GmbH, Eurolab | revised |  | S5-193407 |
| S5-193264 | CR Rel-16 28.541 Update RRMPolicyRatio2 data type name in stage 3 | Ericsson GmbH, Eurolab | revised |  | S5-193408 |
| S5-193265 | Correction of Throughput KPI | Ericsson-LG Co., LTD | revised |  | S5-193448 |
| S5-193266 | Correction of Throughput KPI | Ericsson-LG Co., LTD | revised |  | S5-193449 |
| S5-193267 | Add measurements related to DRB retainability | Ericsson-LG Co., LTD | revised |  | S5-193389 |
| S5-193268 | Add KPI for DRB Retainability | Ericsson-LG Co., LTD | revised |  | S5-193390 |
| S5-193269 | LS on Data activity reporting | Ericsson-LG Co., LTD | revised |  | S5-193391 |
| S5-193270 | Correct DRB successfully setup measurements | Ericsson-LG Co., LTD | agreed |  |  |
| S5-193271 | Correction of F1 measurements | Ericsson-LG Co., LTD | agreed |  |  |
| S5-193272 | Correction of F1 measurements | Ericsson-LG Co., LTD | agreed |  |  |
| S5-193273 | Correction of RRMPolicy | Ericsson-LG Co., LTD | merged |  | S5-193409 |
| S5-193274 | CR R15 Correction of monitoring of PDCP data volume measurements | Ericsson | revised |  | S5-193453 |
| S5-193275 | Correction of RRMPolicy | Ericsson-LG Co., LTD | merged |  | S5-193410 |
| S5-193276 | Correction of PRB measurements | Ericsson-LG Co., LTD | revised |  | S5-193454 |
| S5-193277 | CR R15 32421-F00 Update eNB/NG-RAN List of interfaces for NSA support of trace activation of trace activation | Ericsson, NTT DOCOMO | agreed |  |  |
| S5-193278 | CR R15 32.422-f10 Update eNB/NG-RAN List of interfaces for NSA support of trace activation | Ericsson, NTT DOCOMO | revised |  | S5-193546 |
| S5-193279 | CR R15 32423-f00 Update Trace Record Content to reflect the NR NRM in 28.541 for NSA support | Ericsson, NTT DOCOMO | revised |  | S5-193450 |
| S5-193280 | Rel-16 CR 32.254 Addition of NEF charging data for Converged Charging | Ericsson | revised |  | S5-193327 |
| S5-193281 | Rel-16 CR 32.254 Addition of NEF charging information | Ericsson | revised |  | S5-193328 |
| S5-193282 | Rel-16 CR 32.254 Addition of NEF trigger information | Ericsson | revised |  | S5-193326 |
| S5-193283 | Rel-15 CR 32.290 Correction of Failure and Retry handling | Ericsson | revised |  | S5-193344 |
| S5-193284 | Rel-15 CR 32.255 Correction of Termination action | Ericsson | revised |  | S5-193345 |
| S5-193285 | Rel-15 CR 32.290 Correction of result code classification | Ericsson | not pursued |  |  |
| S5-193286 | Rel-15 CR 32.251 Adding APN rate-control information and remove editor's notes | Ericsson | revised |  | S5-193428 |
| S5-193287 | Rel-15 CR 32.298 Adding Rate-Control information and triggers to CDRs | Ericsson | revised |  | S5-193429 |
| S5-193288 | Rel-15 CR 32.299 Adding Rate-Control information and triggers to Rf offline charging | Ericsson | revised |  | S5-193430 |
| S5-193289 | Rel-15 CR 32.290 Correction of termination handling | Ericsson | not pursued |  |  |
| S5-193290 | Rel-15 CR 32.298 Correction of Presence Reporting Area | Ericsson | revised |  | S5-193433 |
| S5-193291 | Rel-15 CR 32.290 Correction of QBC roaming definition | Ericsson | not pursued |  |  |
| S5-193292 | Rel-15 CR 32.255 Correction of Start of a QoS Flow trigger | Ericsson | revised |  | S5-193436 |
| S5-193293 | Rel-15 CR 32.255 Correction of missing SDF abbreviation | Ericsson | revised |  | S5-193465 |
| S5-193294 | Rel-15 CR 32.291 Correction of trigger type for start of service data flow | Ericsson | agreed |  |  |
| S5-193295 | Rel-15 CR 32.291 Correction of trigger type unit count inactivity timer | Ericsson | revised |  | S5-193466 |
| S5-193296 | Rel-15 CR 32.298 Correction of usage of local sequence number import | Ericsson | merged |  | S5-193426 |
| S5-193297 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging release usage | Ericsson | revised |  | S5-193467 |
| S5-193298 | Rel-15 CR 32.290 Correction of Release naming | Ericsson | revised |  | S5-193468 |
| S5-193299 | Rel-15 CR 32.291 Correction of missing http status codes | Ericsson | revised |  | S5-193470 |
| S5-193300 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Change for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | not pursued |  | - |
| S5-193301 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Modification for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | not pursued |  |  |
| S5-193302 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Release for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | not pursued |  |  |
| S5-193303 | Fix the implementation errors | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-193304 | Fix the implementation errors | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-193305 | Correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | revised |  | S5-193404 |
| S5-193306 | Presentation of TR 28.803 to SA for Information | Intel Corporation (UK) Ltd | approved |  |  |
| S5-193307 | pCR discussion sequence | Intel Corporation (UK) Ltd | noted |  |  |
| S5-193308 | Response LS to GSMA ccSA5 on NEST\_59\_004 on ‘GST and Cooperation with industry partners | BBF | replied to |  |  |
| S5-193309 | General SA5 presentation to Layer123/ZTA congress | Ericsson LM | noted |  |  |
| S5-193310 | General SA5 presentation to ONAP M-SDO workshop | Ericsson LM | noted |  |  |
| S5-193311 | IMS Charging in 5G System Architecture | T-Mobile USA | agreed | S5-193041 | - |
| S5-193312 | Revised WID on Volume Based Charging Aspects for VoLTE | China Mobile | agreed | S5-193060 | - |
| S5-193313 | CR Rel-16 32.255 Add detailed message format for offline only charging | Huawei | agreed | S5-193083 | - |
| S5-193314 | CR Rel-16 32.255 Add PCF rule for offline only charging service | Huawei | not pursued | S5-193088 | - |
| S5-193315 | Rel-16 CR 32.290 Correct offline only charging service API name | Huawei Tech.(UK) Co., Ltd | agreed | S5-193154 | - |
| S5-193316 | CR Rel-16 32.291 Add Offline only charging service API name | Huawei | agreed | S5-193084 | - |
| S5-193317 | CR Rel-16 32.291 Add Offline only charging service API description | Huawei | agreed | - | - |
| S5-193318 | Rel-16 CR 32.255 CHF selection in offline only | Nokia, Nokia Shanghai Bell | agreed | S5-193100 | - |
| S5-193319 | CR Rel-16 32.291 Add Offline only charging service API resource definition | Huawei | agreed | S5-193085 | - |
| S5-193320 | CR Rel-16 32.291 Add Offline only charging service API data model | Huawei | agreed | S5-193086 | - |
| S5-193321 | CR Rel-16 32.291 Add Offline only charging service API error handling | Huawei | agreed | S5-193087 | - |
| S5-193322 | Rel-16 CR 32.255 Clarification on the Charging Identifier | Huawei | not pursued | S5-193072 | - |
| S5-193323 | Rel-16 CR 32.255 Clarify the Charging Session for interworking | Huawei | agreed | S5-193073 | - |
| S5-193324 | Rel-16 CR 32.255 Add the quota management for interworking | Huawei | agreed | S5-193074 | - |
| S5-193325 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | agreed | S5-193075 | - |
| S5-193326 | Rel-16 CR 32.254 Addition of NEF trigger information | Ericsson | agreed | S5-193282 | - |
| S5-193327 | Rel-16 CR 32.254 Addition of NEF charging data for Converged Charging | Ericsson | agreed | S5-193280 | - |
| S5-193328 | Rel-16 CR 32.254 Addition of NEF charging information | Ericsson | agreed | S5-193281 | - |
| S5-193329 | Rel-16 pCR 32.256 N2 connection message flows | Nokia, Nokia Shanghai Bell | approved | S5-193090 | - |
| S5-193330 | Rel-16 pCR 32.256 Applicable Triggers | Nokia, Nokia Shanghai Bell | approved | S5-193091 | - |
| S5-193331 | Rel-16 pCR 32.256 CDRs generation | Nokia, Nokia Shanghai Bell | approved | S5-193092 | - |
| S5-193332 | Rel-16 pCR 32.256 CDRs transfer | Nokia, Nokia Shanghai Bell | approved | S5-193093 | - |
| S5-193333 | Rel-16 pCR 32.256 Message content description | Nokia, Nokia Shanghai Bell | agreed | S5-193094 | - |
| S5-193334 | Rel-16 pCR 32.256 Connection Mobility charging information | Nokia, Nokia Shanghai Bell | agreed | S5-193095 | - |
| S5-193335 | Rel-16 pCR 32.845 Addition of solution for NSI Performance Charging | Openet Telecom | approved | S5-193208 | - |
| S5-193336 | Rel-16 pCR 32.845 Addition of solution evaluation for solution #1.4 | Ericsson | approved | S5-193219 | - |
| S5-193337 | Rel-16 pCR TR 32.845 Clarify the interaction with management system | Huawei | approved | S5-193068 | - |
| S5-193338 | Rel-16 pCR 32.845 Clarification of aggregation for NSI Charging | Openet Telecom | approved | S5-193238 | - |
| S5-193339 | Draft R 32.845 | Huawei | approved | - | - |
| S5-193340 | Draft TS 32.256 | Nokia, Nokia Shanghai Bell | approved | - | - |
| S5-193341 | Rel-16 CR 32.291 Correct the failure handling | Huawei | agreed | S5-193080 | - |
| S5-193342 | Rel-15 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | agreed | S5-193096 | - |
| S5-193343 | Rel-16 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | agreed | S5-193097 | - |
| S5-193344 | Rel-15 CR 32.290 Correction of Failure and Retry handling | Ericsson | agreed | S5-193283 | - |
| S5-193345 | Rel-15 CR 32.255 Correction of Termination action | Ericsson | agreed | S5-193284 | - |
| S5-193346 | SA presentation on the process for OPEN APIs | WG Chair | noted | - | - |
| S5-193347 | SA5 presentation for ONAP | Nokia | noted | - | - |
| S5-193348 | Tdoc discussion sequence | Intel | noted | - | - |
| S5-193349 | Discussion paper on levels of autonomous network | China Mobile, China Telecom, China Unicom, Huawei, Turkcell, Vodafone, ZTE | noted | - | - |
| S5-193350 | Reply to: Response LS to GSMA ccSA5 on NEST\_59\_004 on ‘GST and Cooperation with industry partners | Huawei | approved | - | - |
| S5-193351 | Reply to: LS from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter | Ericsson | withdrawn | - | - |
| S5-193352 | Discussion paper on the need to restructure TS 28.532 | AT&T, Orange | endorsed | S5-193056 | - |
| S5-193353 | Introducing GST and NEST | Orange Romania | withdrawn | - | - |
| S5-193355 | Sequence proposal for Methodology for 5G management specifications | Ericsson | revised | - | S5-193441 |
| S5-193356 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193108 | - |
| S5-193357 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193107 | - |
| S5-193358 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193106 | - |
| S5-193359 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193105 | - |
| S5-193360 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193104 | - |
| S5-193361 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193103 | - |
| S5-193362 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193102 | - |
| S5-193363 | Rel-16 CR 32.425 Add measurement on RRC connection usage per UE multi-RAT capability | P.I. WORKS | agreed | S5-193129 | - |
| S5-193364 | Corrections of the document references information | Ericsson Inc. | agreed | S5-193089 | - |
| S5-193365 | Draft TS 28.405 | Ericsson | approved | - | - |
| S5-193366 | pCR 28.310 Add requirements of PEE measurement data collection for NG-RAN | Huawei,Ericsson | approved | S5-193165 | - |
| S5-193367 | pCR 28.310 Update EE concept | Huawei, Orange | approved | S5-193166 | - |
| S5-193368 | Revised WID on energy efficiency of 5G | Orange Romania | agreed | S5-193179 | - |
| S5-193369 | Draft TR 28.812 | Huawei | approved | - | - |
| S5-193370 | pCR 28.812 Add description of intent translation | Huawei | approved | S5-193131 | - |
| S5-193371 | pCR 28.812 Add key information for intent expression of existing scenarios | Huawei | withdrawn | - | - |
| S5-193372 | pCR 28.812 Add introduction and standard consideration for IDMS | Huawei | approved | S5-193133 | - |
| S5-193373 | Discussion paper on Scope and bounderies for Intent Based Management | Ericsson Inc. | endorsed | S5-193174 | - |
| S5-193374 | pCR 28.812 Clarification of the dimensions | Ericsson Inc. | approved | S5-193175 | - |
| S5-193375 | Update the feedback description | Huawei Tech.(UK) Co., Ltd | approved | S5-193180 | - |
| S5-193376 | pCR 28.812 Abstraction versus layering | Ericsson Inc. | approved | S5-193181 | - |
| S5-193377 | pCR 28.812 Clarification of relation between intent and policy | Ericsson Inc. | approved | S5-193182 | - |
| S5-193378 | pCR 28.812 Intent lifecycle management aspects | Ericsson Inc. | revised | S5-193183 | S5-193534 |
| S5-193379 | Rel-16 CR 28.622 Add IOCs for threshold monitoring control | Intel Corporation SAS | revised | S5-193116 | S5-193516 |
| S5-193380 | Rel-16 CR 28.623 Add IOCs for threshold monitoring control | Intel Corporation SAS | withdrawn | - | - |
| S5-193381 | Rel-16 CR 28.550 Add performance threshold monitoring service | Intel Corporation SAS | agreed | S5-193118 | - |
| S5-193382 | Add use case and definitions of packet loss measurement over N3 | ETRI,KT | agreed | S5-193058 | - |
| S5-193383 | Add use case and definitions of packet delay measurement over N3 | ETRI,KT | agreed | S5-193059 | - |
| S5-193384 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Addition for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | agreed | S5-193061 | - |
| S5-193385 | Rel-16 CR 28.552 Add measurements related to Service Requests via Untrusted non-3GPP Access | Intel Corporation SAS | agreed | S5-193121 | - |
| S5-193386 | Add measurements related to inter gNB Handover | Ericsson-LG Co., LTD | agreed | S5-193214 | - |
| S5-193387 | Add measurements related to intra gNB Handover | Ericsson-LG Co., LTD | agreed | S5-193217 | - |
| S5-193388 | Add KPI for NG-RAN Handover Success Rate | Ericsson-LG Co., LTD | agreed | S5-193218 | - |
| S5-193389 | Add measurements related to DRB retainability | Ericsson-LG Co., LTD | not pursued | S5-193267 | - |
| S5-193390 | Add KPI for DRB Retainability | Ericsson-LG Co., LTD | not pursued | S5-193268 | - |
| S5-193391 | LS on Data activity reporting | Ericsson-LG Co., LTD | approved | S5-193269 | - |
| S5-193392 | CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance | Huawei | not pursued | S5-193159 | - |
| S5-193393 | CR Rel-16 TS 28.533 Add further clarification of metadata attributes | Huawei | withdrawn | - | - |
| S5-193394 | CR Rel-16 TS 28.533 Add use case of discovery of MnS instance metainformation | Huawei Technologies (Korea) | not pursued | S5-193261 | - |
| S5-193395 | MnS discovery | Nokia, Nokia Shanghai Bell | endorsed | S5-193200 | - |
| S5-193396 | Update NRM requirement to support SBA management | Nokia, Nokia Shanghai Bell | agreed | S5-193187 | - |
| S5-193397 | Update UIM Information Service to support Service\_ Object | Nokia, Nokia Shanghai Bell | not pursued | S5-193188 | - |
| S5-193398 | Update generic NRM Information Service to support Managed Service Object | Nokia, Nokia Shanghai Bell | revised | S5-193189 | S5-193518 |
| S5-193399 | Update 5GC Information Service to align with Managed Service Definition | Nokia, Nokia Shanghai Bell | conditionally agreed | S5-193190 | - |
| S5-193400 | TD Resource sharing between multiple PLMNs | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-193401 | 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 | S5-193040 | - |
| S5-193402 | Rel-16 CR 32.532 Add notifications for threshold monitoring | Intel | revised | - | S5-193538 |
| S5-193403 | Enhance RRM Policy to support resource sharing between multiple PLMNs | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-193404 | Correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | revised | S5-193305 | S5-193549 |
| S5-193405 | correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | revised | S5-193244 | S5-193548 |
| S5-193406 | CR Rel-16 28.541 Add datatype definition for NfProfile | Ericsson GmbH, Eurolab | conditionally agreed | S5-193262 | - |
| S5-193407 | CR Rel-16 28.541 Add missing clauses to RRMPolicyRatio2 data type | Ericsson GmbH, Eurolab | agreed | S5-193263 | - |
| S5-193408 | CR Rel-16 28.541 Update RRMPolicyRatio2 data type name in stage 3 | Ericsson GmbH, Eurolab | agreed | S5-193264 | - |
| S5-193409 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | agreed | S5-193185 | - |
| S5-193410 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | agreed | S5-193186 | - |
| S5-193411 | TD Trace Management in the context of Services Based Management Architecture | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-193412 | Rel-16 CR 28.533 Add examples of ONAP utilizing the MnSs provided by 3GPP MnS Producer | Huawei Tech.(UK) Co., Ltd | agreed | S5-193156 | - |
| S5-193413 | Rel-15 CR TS 28.541 Correct the definition for nsInfo | Huawei | agreed | S5-193141 | - |
| S5-193414 | Rel-16 CR TS 28.541 Correct the definition for nsInfo | Huawei | agreed | S5-193142 | - |
| S5-193415 | Rel-15 CR 28.531 Editor's change for configuration management service | Huawei | agreed | - | - |
| S5-193416 | Rel-16 CR 28.531 Editor's change for configuration management service | Huawei Tech.(UK) Co., Ltd | agreed | S5-193143 | - |
| S5-193417 | Rel-15 CR TS 32.425 Correction on kbits abbreviation | Huawei | agreed | S5-193144 | - |
| S5-193418 | Rel-16 CR TS 32.425 Correction on kbits abbreviation | Huawei | agreed | S5-193145 | - |
| S5-193419 | Mapping rule between DN and URI | Ericsson Inc. | noted | S5-193151 | - |
| S5-193420 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc.,Huawei | conditionally agreed | S5-193197 | - |
| S5-193421 | Correct pLMNIdList parameter | Ericsson Inc. | withdrawn | - | - |
| S5-193422 | Discussion paper around beam types | Ericsson-LG Co., LTD | endorsed | S5-193210 | - |
| S5-193423 | Rel-15 CR 32.291 Correction on errors description | Nokia, Nokia Shanghai Bell | agreed | S5-193098 | - |
| S5-193424 | Rel-15 CR 32.290 Clarify the trigger mechanism | Huawei | agreed | S5-193078 | - |
| S5-193425 | Rel-16 CR 32.290 Clarify the trigger mechanism | Huawei | agreed | S5-193077 | - |
| S5-193426 | Rel-15 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell,Ericsson | agreed | S5-193204 | - |
| S5-193427 | Rel-16 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell | agreed | S5-193205 | - |
| S5-193428 | Rel-15 CR 32.251 Adding APN rate-control information and remove editor's notes | Ericsson | agreed | S5-193286 | - |
| S5-193429 | Rel-15 CR 32.298 Adding Rate-Control information and triggers to CDRs | Ericsson | agreed | S5-193287 | - |
| S5-193430 | Rel-15 CR 32.299 Adding Rate-Control information and triggers to Rf offline charging | Ericsson | agreed | S5-193288 | - |
| S5-193431 | Adding Rate-Control information and triggers to CDRs | Ericsson | agreed | - | - |
| S5-193432 | Adding Rate-Control information and triggers to Rf offline charging | Ericsson | agreed | - | - |
| S5-193433 | Rel-15 CR 32.298 Correction of Presence Reporting Area | Ericsson | agreed | S5-193290 | - |
| S5-193434 | Rel-16 CR 32.298 Correction of Presence Reporting Area | Ericsson | agreed | - | - |
| S5-193435 | Rel-16 CR 32.290 Correction of QBC roaming definition | Ericsson | withdrawn | - | - |
| S5-193436 | Rel-15 CR 32.255 Correction of Start of a QoS Flow trigger | Ericsson | agreed | S5-193292 | - |
| S5-193437 | Rel-16 CR 32.255 Correction of Start of a QoS Flow trigger | Ericsson | agreed | - | - |
| S5-193438 | Correct UML diagram and role-attribute of slice NRM | Ericsson Inc. Huawei | conditionally agreed | S5-193239 | - |
| S5-193439 | Correct style for Definition | Ericsson Inc. | agreed | S5-193241 | - |
| S5-193440 | Add RP attribute and disambiguate the delivery method attributes | Ericsson Inc. | conditionally agreed | S5-193242 | - |
| S5-193441 | Sequence proposal for Methodology for 5G management specifications | Ericsson | noted | S5-193355 | - |
| S5-193442 | Correct style for Definition | Ericsson | agreed | - | - |
| S5-193443 | Correct style for Definition | Ericsson | agreed | - | - |
| S5-193444 | Correct style for Definition | Ericsson | agreed | - | - |
| S5-193445 | Correct style for Definition | Ericsson | agreed | - | - |
| S5-193446 | Correct style for Definition | Ericsson | agreed | - | - |
| S5-193447 | Correct use of Proxy class | Ericsson Inc. | conditionally agreed | S5-193243 | - |
| S5-193448 | Correction of Throughput KPI | Ericsson-LG Co., LTD | agreed | S5-193265 | - |
| S5-193449 | Correction of Throughput KPI | Ericsson-LG Co., LTD | agreed | S5-193266 | - |
| S5-193450 | CR R15 32423-f00 Update Trace Record Content to reflect the NR NRM in 28.541 for NSA support | Ericsson, NTT DOCOMO | agreed | S5-193279 | - |
| S5-193451 | Rel-15 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | conditionally agreed | S5-193137 | - |
| S5-193452 | Rel-16 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | conditionally agreed | S5-193138 | - |
| S5-193453 | CR R15 Correction of monitoring of PDCP data volume measurements | Ericsson | agreed | S5-193274 | - |
| S5-193454 | Correction of PRB measurements | Ericsson-LG Co., LTD | revised | S5-193276 | S5-193536 |
| S5-193455 | Use one style for all enumeration | Ericsson Inc. | endorsed | S5-193150 | - |
| S5-193456 | YANG solution style guide | Ericsson Inc. | withdrawn | - | - |
| S5-193457 | YANG solution additional considerations | Ericsson Inc. | withdrawn | - | - |
| S5-193458 | pCR 28.803 add introduction | Intel Corporation (UK) Ltd | approved | S5-193109 | - |
| S5-193459 | pCR 28.803 add a solution for end-to-end performance assurance | Intel Corporation (UK) Ltd | approved | S5-193110 | - |
| S5-193460 | Title Stage 2-3 alignment process | WG chair | withdrawn | - | - |
| S5-193461 | pCR 28.803 add conclusion | Intel Corporation (UK) Ltd | approved | S5-193111 | - |
| S5-193462 | Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | revised | S5-193152 | S5-193519 |
| S5-193463 | Rel-13 CR TS 32.425 Correction on kbits abbreviation | Huawei | agreed | - | - |
| S5-193464 | Rel-14 CR TS 32.425 Correction on kbits abbreviation | Huawei | agreed | - | - |
| S5-193465 | Rel-16 CR 32.255 Correction of missing SDF abbreviation | Ericsson | agreed | S5-193293 | - |
| S5-193466 | Rel-15 CR 32.291 Correction of trigger type unit count inactivity timer | Ericsson | agreed | S5-193295 | - |
| S5-193467 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging release usage | Ericsson | agreed | S5-193297 | - |
| S5-193468 | Rel-15 CR 32.290 Correction of Release naming | Ericsson | agreed | S5-193298 | - |
| S5-193469 | Rel-16 CR 32.290 Correction of Release naming | Ericsson | agreed | - | - |
| S5-193470 | Rel-15 CR 32.291 Correction of missing http status codes | Ericsson | agreed | S5-193299 | - |
| S5-193471 | Rel-15 CR 32.291 Correction on binding | Nokia, Nokia Shanghai Bell | agreed | S5-193207 | - |
| S5-193472 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | agreed | S5-193076 | - |
| S5-193473 | Rel-16 CR 32.290 Addition of message retry | Huawei | agreed | S5-193081 | - |
| S5-193474 | Rel-16 SA5 Charging work – input for further consideration | Charging SWG Chair | noted | - | - |
| S5-193475 | Representation for tenant in 3GPP management system | Huawei | approved | S5-193161 | - |
| S5-193476 | Management entity for tenant in 3GPP management system | Huawei | approved | S5-193162 | - |
| S5-193477 | pCR 28.804 Add tenant type description | Huawei | approved | S5-193209 | - |
| S5-193478 | Add tenant definition in 3GPP management system | Huawei | approved | S5-193163 | - |
| S5-193479 | CR 32.158 Correct the DN to URI mapping rules | Nokia, Nokia Shanghai Bell | agreed | S5-193201 | - |
| S5-193480 | pCR to TR 28.805 SLA assurance | Cisco Systems Inc. | revised | S5-193054 | S5-193542 |
| S5-193481 | pCR to TR 28.805 Types of communication services | Cisco Systems Inc. | approved | S5-193055 | - |
| S5-193482 | pCR 28.805 Introduce connection to layering | Ericsson GmbH, Eurolab | approved | S5-193222 | - |
| S5-193483 | pCR 28.805 Introduce management model | Ericsson GmbH, Eurolab | approved | S5-193223 | - |
| S5-193484 | Draft TR 28.805 | Ericsson | approved | - | - |
| S5-193485 | pCR 28.805 Add CSI lifecyle concept | Huawei, Ericsson | approved | S5-193170 | - |
| S5-193486 | pCR 28.805 Add CSI-NSI lifecycle relation concept | Huawei, Ericsson | approved | S5-193171 | - |
| S5-193487 | pCR 28.805 CSMF functionalities | Huawei, Ericsson | approved | S5-193168 | - |
| S5-193488 | 28.805 Add UC and requirements for CSI monitoring | Huawei | approved | S5-193157 | - |
| S5-193489 | pCR to TR 28.805 Service quality assurance and optimization | Cisco Systems Inc. | approved | S5-193065 | - |
| S5-193490 | pCR 28.805 Update use case of communication service instances realization | Huawei | approved | S5-193169 | - |
| S5-193491 | pCR 28.805 Use case and requirement for management of multi-site communication service | Ericsson GmbH, Eurolab | withdrawn | - | - |
| S5-193492 | pCR 28.805 Use case and requirement to activate a resource facing communication service | Ericsson GmbH, Eurolab | approved | S5-193226 | - |
| S5-193493 | pCR 28.805 Use case and requirement to create a resource facing communication service | Ericsson GmbH, Eurolab,Deutsche Telekom | approved | S5-193227 | - |
| S5-193494 | pCR 28.805 Use case and requirement to de-activate a resource facing communication service | Ericsson GmbH, Eurolab,Deutsche Telekom | approved | S5-193228 | - |
| S5-193495 | pCR 28.805 Use case and requirement to modify a resource facing communication service | Ericsson GmbH, Eurolab,Deutsche Telekom | approved | S5-193229 | - |
| S5-193496 | pCR 28.805 Use case and requirement to terminate a resource facing communication service | Ericsson GmbH, Eurolab,Deutsche Telekom | approved | S5-193230 | - |
| S5-193497 | Report on Breakout session on Yang style guide | Ericsson | noted | - | - |
| S5-193498 | pCR to TR 28.861 Service quality optimization | Cisco Systems Inc. | approved | S5-193042 | - |
| S5-193499 | pCR to TR 28.861 CCO and Coordination | Cisco Systems Inc. | approved | S5-193043 | - |
| S5-193500 | pCR to TR 28.861 Inter-Cell Interference | Cisco Systems Inc. | approved | S5-193044 | - |
| S5-193501 | pCR to TR 28.861 MRO Use Case corrections | Cisco Systems Inc. | approved | S5-193045 | - |
| S5-193502 | pCR to TR 28.861 References fix | Cisco Systems Inc.,Huawei | approved | S5-193050 | - |
| S5-193503 | pCR 28.861 update the title and concept of ANR management | Huawei | approved | S5-193135 | - |
| S5-193504 | pCR to TR 28.861 NSI resource allocation optimization | Cisco Systems Inc. | revised | S5-193048 | S5-193543 |
| S5-193505 | pCR to TR 28.861 RACH Optimization | Cisco Systems Inc. | approved | S5-193049 | - |
| S5-193506 | pCR to TR 28.861 Self-establishment of the NF | Cisco Systems Inc. | approved | S5-193051 | - |
| S5-193507 | pCR to TR 28.861 SON in multiple domains | Cisco Systems Inc. | revised | S5-193052 | S5-193544 |
| S5-193508 | Draft TR 28.861 | Intel | approved | - | - |
| S5-193509 | pCR 28.861 add use case for automatic NSI creation | Intel Corporation (UK) Ltd, Verizon | approved | S5-193112 | - |
| S5-193510 | OAM&P SWG action list | WG Vice Chair (Huawei) | revised | S5-193014 | S5-193550 |
| S5-193511 | pCR 28.861 add use case of PCI configuration | Huawei,Intel | approved | S5-193134 | - |
| S5-193512 | pCR 28.803 solution for ANR optimization | Intel Corporation (UK) Ltd, Verizon | noted | S5-193114 | - |
| S5-193513 | pCR 28.861 add use case for beam optimization in CCO | Intel Corporation (UK) Ltd, Verizon, ZTE, Pivotal Commware, PI Works | revised | S5-193115 | S5-193545 |
| S5-193514 | pCR 28.861 add use case for cross-slice network resource optimization | KPN N.V. | approved | S5-193155 | - |
| S5-193515 | Minutes of NRM enhancements | Rapporteur (Nokia) | noted | S5-193027 | - |
| S5-193516 | Rel-16 CR 28.622 Add IOCs for threshold monitoring control | Intel Corporation SAS | agreed | S5-193379 | - |
| S5-193517 | Update UIM Information Service to support Service\_ Object | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-193518 | Update generic NRM Information Service to support Managed Service Object | Nokia, Nokia Shanghai Bell | agreed | S5-193398 | - |
| S5-193519 | Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | agreed | S5-193462 | - |
| S5-193520 | pCR 28.861 Add Multi-dimensional Resource Optimization | Nokia, Nokia Shanghai Bell, Verizon | approved | S5-193221 | - |
| S5-193521 | Initial skeleton of TR 28.807 | Huawei | approved | S5-193146 | - |
| S5-193522 | Introduction to TR 28.808 (FS\_5GSAT\_MO) | THALES | approved | S5-193124 | - |
| S5-193523 | Scope of TR 28.808 (FS\_5GSAT\_MO) | THALES | approved | S5-193125 | - |
| S5-193524 | Informative Annex A on General Characterics of Satellite Systems for TR 28.808 | THALES | approved | S5-193126 | - |
| S5-193525 | Draft TR 28.808 | Thales | approved | - | - |
| S5-193526 | Use case on network slice with a satellite component | THALES | approved | S5-193128 | - |
| S5-193527 | Use case on RAN Sharing of Satellite components | THALES | approved | S5-193236 | - |
| S5-193528 | Draft TS 28.310 | ORANGE | approved | - | - |
| S5-193529 | Add missing (NR) cell and frequency relation | Ericsson Inc.,Huawei | conditionally agreed | S5-193184 | - |
| S5-193530 | Draft TR 28.804 | Nokia | approved | - | - |
| S5-193531 | Draft OAM agenda for Sapporo | WG Chair | revised | - | S5-193547 |
| S5-193532 | Minutes of Methodology for 5G management specifications | Rapporteur (Ericsson) | noted | S5-193023 | - |
| S5-193533 | Minutes of Intent driven management service for mobile networks | Rapporteur (Huawei) | noted | S5-193024 | - |
| S5-193534 | pCR 28.812 Intent lifecycle management aspects | Ericsson Inc. | approved | S5-193378 | - |
| S5-193535 | Minutes of Enhancement of performance assurance for 5G networks including network slicing | Rapporteur (Intel) | noted | S5-193025 | - |
| S5-193536 | Correction of PRB measurements | Ericsson-LG Co., LTD | agreed | S5-193454 | - |
| S5-193537 | Minutes of Study on management aspects of edge computing | Rapporteur (Intel) | noted | S5-193031 | - |
| S5-193538 | Rel-16 CR 32.532 Add notifications for threshold monitoring | Intel | agreed | S5-193402 | - |
| S5-193539 | Minutes of Discovery of management services in 5G | Rapporteur (Huawei) | noted | S5-193026 | - |
| S5-193540 | Draft CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance | Huawei | approved | - | - |
| S5-193541 | Draft TR 28.803 | Intel | approved | - | - |
| S5-193542 | pCR to TR 28.805 SLA assurance | Cisco Systems Inc. | noted | S5-193480 | - |
| S5-193543 | pCR to TR 28.861 NSI resource allocation optimization | Cisco Systems Inc. | approved | S5-193504 | - |
| S5-193544 | pCR to TR 28.861 SON in multiple domains | Cisco Systems Inc. | approved | S5-193507 | - |
| S5-193545 | pCR 28.861 add use case for beam optimization in CCO | Intel Corporation (UK) Ltd, Verizon, ZTE, Pivotal Commware, PI Works | approved | S5-193513 | - |
| S5-193546 | CR R15 32.422-f10 Update eNB/NG-RAN List of interfaces for NSA support of trace activation | Ericsson, NTT DOCOMO | agreed | S5-193278 | - |
| S5-193547 | Draft OAM agenda for Sapporo | WG Chair | endorsed | S5-193531 | - |
| S5-193548 | correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | agreed | S5-193405 | - |
| S5-193549 | Correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | agreed | S5-193404 | - |
| S5-193550 | OAM&P SWG action list | WG Vice Chair (Huawei) | noted | S5-193510 | - |
| S5-193551 | OAM Executive Report | WG Vice Chair (ORANGE) | noted | S5-193013 | - |

## Annex B: List of change requests

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-193057 | Introducing GST and NEST | Orange Romania | 28.531 | 0018 | - | Rel-16 | B | NETSLICE-PRO\_NS | not pursued |
| S5-193353 | Introducing GST and NEST | Orange Romania | 28.531 | 0018 | 1 | Rel-16 | B | NETSLICE-PRO\_NS | withdrawn |
| S5-193143 | Rel-16 CR 28.531 Editor's change for configuration management service | Huawei Tech.(UK) Co., Ltd | 28.531 | 0019 | - | Rel-16 | A | TEI16 | revised |
| S5-193416 | Rel-16 CR 28.531 Editor's change for configuration management service | Huawei Tech.(UK) Co., Ltd | 28.531 | 0019 | 1 | Rel-16 | A | NETSLICE-PRO\_NS | agreed |
| S5-193415 | Rel-15 CR 28.531 Editor's change for configuration management service | Huawei | 28.531 | 0020 | - | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-193101 | Add missing annex with information on probable causes | Ericsson Inc. | 28.532 | 0030 | - | Rel-15 | F | NETSLICE | not pursued |
| S5-193152 | Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | 28.532 | 0031 | - | Rel-16 | B | ONAP3GPP | revised |
| S5-193462 | Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | 28.532 | 0031 | 1 | Rel-16 | B | ONAP3GPP | revised |
| S5-193519 | Add RESTful HTTP-based solution set of fault supervision for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | 28.532 | 0031 | 2 | Rel-16 | B | ONAP3GPP | agreed |
| S5-193156 | Rel-16 CR 28.533 Add examples of ONAP utilizing the MnSs provided by 3GPP MnS Producer | Huawei Tech.(UK) Co., Ltd | 28.533 | 0015 | - | Rel-16 | B | ONAP3GPP | revised |
| S5-193412 | Rel-16 CR 28.533 Add examples of ONAP utilizing the MnSs provided by 3GPP MnS Producer | Huawei Tech.(UK) Co., Ltd | 28.533 | 0015 | 1 | Rel-16 | B | ONAP3GPP | agreed |
| S5-193158 | CR Rel-16 TS 28.533 Add further clarification of metadata attributes | Huawei | 28.533 | 0016 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-193393 | CR Rel-16 TS 28.533 Add further clarification of metadata attributes | Huawei | 28.533 | 0016 | 1 | Rel-16 | B | 5GDMS | withdrawn |
| S5-193159 | CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance | Huawei | 28.533 | 0017 | - | Rel-16 | B | 5GDMS | revised |
| S5-193392 | CR Rel-16 TS 28.533 Add two use cases of discovery of MnS instance | Huawei | 28.533 | 0017 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-193261 | CR Rel-16 TS 28.533 Add use case of discovery of MnS instance metainformation | Huawei Technologies (Korea) | 28.533 | 0018 | - | Rel-16 | B | 5GDMS | revised |
| S5-193394 | CR Rel-16 TS 28.533 Add use case of discovery of MnS instance metainformation | Huawei Technologies (Korea) | 28.533 | 0018 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-193187 | Update NRM requirement to support SBA management | Nokia, Nokia Shanghai Bell | 28.540 | 0002 | - | Rel-16 | B | eNRM | revised |
| S5-193396 | Update NRM requirement to support SBA management | Nokia, Nokia Shanghai Bell | 28.540 | 0002 | 1 | Rel-16 | B | eNRM | agreed |
| S5-193040 | 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 | 3 | Rel-15 | C | NETSLICE-5GNRM | revised |
| S5-193401 | 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 | 4 | Rel-15 | C | NETSLICE-5GNRM | not pursued |
| S5-193137 | Rel-15 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | 28.541 | 0080 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193451 | Rel-15 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | 28.541 | 0080 | 1 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-193138 | Rel-16 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | 28.541 | 0081 | - | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-193452 | Rel-16 CR TS 28.541 Address the inconsistent issue for attribute rRMPolicyNSSI | Huawei | 28.541 | 0081 | 1 | Rel-16 | A | NETSLICE-5GNRM | conditionally agreed |
| S5-193139 | Rel-15 CR TS 28.541 Remove attribute availabilityStatus in NRCellDU IOC | Huawei,Ericsson | 28.541 | 0082 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-193140 | Rel-16 CR TS 28.541 Remove attribute availabilityStatus in NRCellDU IOC | Huawei,Ericsson | 28.541 | 0083 | - | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-193141 | Rel-15 CR TS 28.541 Correct the definition for nsInfo | Huawei | 28.541 | 0084 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193413 | Rel-15 CR TS 28.541 Correct the definition for nsInfo | Huawei | 28.541 | 0084 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-193142 | Rel-16 CR TS 28.541 Correct the definition for nsInfo | Huawei | 28.541 | 0085 | - | Rel-16 | F | eNRM | revised |
| S5-193414 | Rel-16 CR TS 28.541 Correct the definition for nsInfo | Huawei | 28.541 | 0085 | 1 | Rel-16 | F | eNRM | agreed |
| S5-193184 | Add missing (NR) cell and frequency relation | Ericsson Inc. | 28.541 | 0086 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193529 | Add missing (NR) cell and frequency relation | Ericsson Inc.,Huawei | 28.541 | 0086 | 1 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-193185 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | 28.541 | 0087 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193409 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | 28.541 | 0087 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-193186 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | 28.541 | 0088 | - | Rel-16 | F | eNRM | revised |
| S5-193410 | Update Information Service of NR to fix unclear Note issue | Nokia, Nokia Shanghai Bell | 28.541 | 0088 | 1 | Rel-16 | F | eNRM | agreed |
| S5-193190 | Update 5GC Information Service to align with Managed Service Definition | Nokia, Nokia Shanghai Bell | 28.541 | 0089 | - | Rel-16 | B | eNRM | revised |
| S5-193399 | Update 5GC Information Service to align with Managed Service Definition | Nokia, Nokia Shanghai Bell | 28.541 | 0089 | 1 | Rel-16 | B | eNRM | conditionally agreed |
| S5-193192 | Enhance RRM Policy to support resource sharing between multiple PLMNs | Nokia, Nokia Shanghai Bell | 28.541 | 0090 | - | Rel-16 | C | eNRM | not pursued |
| S5-193403 | Enhance RRM Policy to support resource sharing between multiple PLMNs | Nokia, Nokia Shanghai Bell | 28.541 | 0090 | 1 | Rel-16 | C | eNRM | withdrawn |
| S5-193197 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc. | 28.541 | 0091 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193420 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc.,Huawei | 28.541 | 0091 | 1 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-193198 | Correct pLMNIdList parameter | Ericsson Inc. | 28.541 | 0092 | - | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-193421 | Correct pLMNIdList parameter | Ericsson Inc. | 28.541 | 0092 | 1 | Rel-15 | F | NETSLICE-5GNRM | withdrawn |
| S5-193239 | Correct UML diagram and role-attribute of slice NRM | Ericsson Inc. Huawei | 28.541 | 0093 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193438 | Correct UML diagram and role-attribute of slice NRM | Ericsson Inc. Huawei | 28.541 | 0093 | 1 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-193240 | Correct definition of configuredMaxTxPower | Ericsson Inc. | 28.541 | 0094 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-193243 | Correct use of Proxy class | Ericsson Inc. | 28.541 | 0095 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193447 | Correct use of Proxy class | Ericsson Inc. | 28.541 | 0095 | 1 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-193244 | correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | 28.541 | 0096 | - | Rel-16 | F | eNRM | revised |
| S5-193405 | correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | 28.541 | 0096 | 1 | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-193548 | correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | 28.541 | 0096 | 2 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-193262 | CR Rel-16 28.541 Add datatype definition for NfProfile | Ericsson GmbH, Eurolab | 28.541 | 0097 | - | Rel-16 | F | eNRM | revised |
| S5-193406 | CR Rel-16 28.541 Add datatype definition for NfProfile | Ericsson GmbH, Eurolab | 28.541 | 0097 | 1 | Rel-16 | F | eNRM | conditionally agreed |
| S5-193263 | CR Rel-16 28.541 Add missing clauses to RRMPolicyRatio2 data type | Ericsson GmbH, Eurolab | 28.541 | 0098 | - | Rel-16 | F | eNRM | revised |
| S5-193407 | CR Rel-16 28.541 Add missing clauses to RRMPolicyRatio2 data type | Ericsson GmbH, Eurolab | 28.541 | 0098 | 1 | Rel-16 | F | eNRM | agreed |
| S5-193264 | CR Rel-16 28.541 Update RRMPolicyRatio2 data type name in stage 3 | Ericsson GmbH, Eurolab | 28.541 | 0099 | - | Rel-16 | F | eNRM | revised |
| S5-193408 | CR Rel-16 28.541 Update RRMPolicyRatio2 data type name in stage 3 | Ericsson GmbH, Eurolab | 28.541 | 0099 | 1 | Rel-16 | F | eNRM | agreed |
| S5-193273 | Correction of RRMPolicy | Ericsson-LG Co., LTD | 28.541 | 0100 | - | Rel-15 | F | NETSLICE-5GNRM | merged |
| S5-193275 | Correction of RRMPolicy | Ericsson-LG Co., LTD | 28.541 | 0101 | - | Rel-16 | A | NETSLICE-5GNRM | merged |
| S5-193303 | Fix the implementation errors | Nokia, Nokia Shanghai Bell | 28.541 | 0102 | - | Rel-16 | F | eNRM | agreed |
| S5-193304 | Fix the implementation errors | Nokia, Nokia Shanghai Bell | 28.541 | 0103 | - | Rel-15 | F | eNRM | agreed |
| S5-193305 | Correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | 28.541 | 0104 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193404 | Correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | 28.541 | 0104 | 1 | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193549 | Correct the use of plmnIdList | Nokia, Nokia Shanghai Bell | 28.541 | 0104 | 2 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-193118 | Rel-16 CR 28.550 Add performance threshold monitoring service | Intel Corporation SAS | 28.550 | 0008 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193381 | Rel-16 CR 28.550 Add performance threshold monitoring service | Intel Corporation SAS | 28.550 | 0008 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193058 | Add use case and definitions of packet loss measurement over N3 | ETRI | 28.552 | 0074 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193382 | Add use case and definitions of packet loss measurement over N3 | ETRI,KT | 28.552 | 0074 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193059 | Add use case and definitions of packet delay measurement over N3 | ETRI | 28.552 | 0075 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193383 | Add use case and definitions of packet delay measurement over N3 | ETRI,KT | 28.552 | 0075 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193121 | Rel-16 CR 28.552 Add measurements related to Service Requests via Untrusted non-3GPP Access | Intel Corporation SAS | 28.552 | 0076 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193385 | Rel-16 CR 28.552 Add measurements related to Service Requests via Untrusted non-3GPP Access | Intel Corporation SAS | 28.552 | 0076 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193122 | Rel-16 CR 28.552 Add measurements related to PDU session resource management via Untrusted non-3GPP Access | Intel Corporation SAS | 28.552 | 0077 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193196 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | 28.552 | 0078 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-193214 | Add measurements related to inter gNB Handover | Ericsson-LG Co., LTD | 28.552 | 0079 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193386 | Add measurements related to inter gNB Handover | Ericsson-LG Co., LTD | 28.552 | 0079 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193217 | Add measurements related to intra gNB Handover | Ericsson-LG Co., LTD | 28.552 | 0080 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193387 | Add measurements related to intra gNB Handover | Ericsson-LG Co., LTD | 28.552 | 0080 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193267 | Add measurements related to DRB retainability | Ericsson-LG Co., LTD | 28.552 | 0081 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193389 | Add measurements related to DRB retainability | Ericsson-LG Co., LTD | 28.552 | 0081 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-193270 | Correct DRB successfully setup measurements | Ericsson-LG Co., LTD | 28.552 | 0082 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-193271 | Correction of F1 measurements | Ericsson-LG Co., LTD | 28.552 | 0083 | - | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-193272 | Correction of F1 measurements | Ericsson-LG Co., LTD | 28.552 | 0084 | - | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-193274 | CR R15 Correction of monitoring of PDCP data volume measurements | Ericsson | 28.552 | 0085 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-193453 | CR R15 Correction of monitoring of PDCP data volume measurements | Ericsson | 28.552 | 0085 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-193276 | Correction of PRB measurements | Ericsson-LG Co., LTD | 28.552 | 0086 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-193454 | Correction of PRB measurements | Ericsson-LG Co., LTD | 28.552 | 0086 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-193536 | Correction of PRB measurements | Ericsson-LG Co., LTD | 28.552 | 0086 | 2 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-193218 | Add KPI for NG-RAN Handover Success Rate | Ericsson-LG Co., LTD | 28.554 | 0013 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193388 | Add KPI for NG-RAN Handover Success Rate | Ericsson-LG Co., LTD | 28.554 | 0013 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193265 | Correction of Throughput KPI | Ericsson-LG Co., LTD | 28.554 | 0014 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-193448 | Correction of Throughput KPI | Ericsson-LG Co., LTD | 28.554 | 0014 | 1 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-193266 | Correction of Throughput KPI | Ericsson-LG Co., LTD | 28.554 | 0015 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-193449 | Correction of Throughput KPI | Ericsson-LG Co., LTD | 28.554 | 0015 | 1 | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-193268 | Add KPI for DRB Retainability | Ericsson-LG Co., LTD | 28.554 | 0016 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193390 | Add KPI for DRB Retainability | Ericsson-LG Co., LTD | 28.554 | 0016 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-193188 | Update UIM Information Service to support Service\_ Object | Nokia, Nokia Shanghai Bell | 28.620 | 0013 | - | Rel-16 | B | eNRM | revised |
| S5-193397 | Update UIM Information Service to support Service\_ Object | Nokia, Nokia Shanghai Bell | 28.620 | 0013 | 1 | Rel-16 | B | eNRM | not pursued |
| S5-193517 | Update UIM Information Service to support Service\_ Object | Nokia, Nokia Shanghai Bell | 28.620 | 0013 | 2 | Rel-16 | B | eNRM | withdrawn |
| S5-193116 | Rel-16 CR 28.622 Add IOCs for threshold monitoring control | Intel Corporation SAS | 28.622 | 0031 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193379 | Rel-16 CR 28.622 Add IOCs for threshold monitoring control | Intel Corporation SAS | 28.622 | 0031 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193516 | Rel-16 CR 28.622 Add IOCs for threshold monitoring control | Intel Corporation SAS | 28.622 | 0031 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193153 | Rel-16 CR 28.622 Add NRM fragment supporting the management of notifications recipients | AT&T, Deutsche Telekom, Orange | 28.622 | 0032 | - | Rel-16 | B | ONAP3GPP | not pursued |
| S5-193189 | Update generic NRM Information Service to support Managed Service Object | Nokia, Nokia Shanghai Bell | 28.622 | 0033 | - | Rel-16 | B | eNRM | revised |
| S5-193398 | Update generic NRM Information Service to support Managed Service Object | Nokia, Nokia Shanghai Bell | 28.622 | 0033 | 1 | Rel-16 | B | eNRM | revised |
| S5-193518 | Update generic NRM Information Service to support Managed Service Object | Nokia, Nokia Shanghai Bell | 28.622 | 0033 | 2 | Rel-16 | B | eNRM | agreed |
| S5-193242 | Add RP attribute and disambiguate the delivery method attributes | Ericsson Inc. | 28.622 | 0034 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-193440 | Add RP attribute and disambiguate the delivery method attributes | Ericsson Inc. | 28.622 | 0034 | 1 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-193117 | Rel-16 CR 28.623 Add IOCs for threshold monitoring control | Intel Corporation SAS | 28.623 | 0021 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193380 | Rel-16 CR 28.623 Add IOCs for threshold monitoring control | Intel Corporation SAS | 28.623 | 0021 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-193089 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0081 | - | Rel-15 | A | OAM8 | revised |
| S5-193364 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0081 | 1 | Rel-15 | A | OAM8 | agreed |
| S5-193102 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0082 | - | Rel-14 | A | OAM8 | revised |
| S5-193362 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0082 | 1 | Rel-14 | A | OAM8 | agreed |
| S5-193103 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0083 | - | Rel-13 | A | OAM8 | revised |
| S5-193361 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0083 | 1 | Rel-13 | A | OAM8 | agreed |
| S5-193104 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0084 | - | Rel-12 | A | OAM8 | revised |
| S5-193360 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0084 | 1 | Rel-12 | A | OAM8 | agreed |
| S5-193105 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0085 | - | Rel-11 | A | OAM8 | revised |
| S5-193359 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0085 | 1 | Rel-11 | A | OAM8 | agreed |
| S5-193106 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0086 | - | Rel-10 | A | OAM8 | revised |
| S5-193358 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0086 | 1 | Rel-10 | A | OAM8 | agreed |
| S5-193107 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0087 | - | Rel-9 | A | OAM8 | revised |
| S5-193357 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0087 | 1 | Rel-9 | A | OAM8 | agreed |
| S5-193108 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0088 | - | Rel-8 | F | OAM8 | revised |
| S5-193356 | Corrections of the document references information | Ericsson Inc. | 32.111-2 | 0088 | 1 | Rel-8 | F | OAM8 | agreed |
| S5-193241 | Correct style for Definition | Ericsson Inc. | 32.156 | 0028 | - | Rel-16 | F | TEI16 | revised |
| S5-193439 | Correct style for Definition | Ericsson Inc. | 32.156 | 0028 | 1 | Rel-16 | A | OAM11 | agreed |
| S5-193442 | Correct style for Definition | Ericsson | 32.156 | 0029 | - | Rel-11 | F | OAM11 | agreed |
| S5-193443 | Correct style for Definition | Ericsson | 32.156 | 0030 | - | Rel-12 | A | OAM11 | agreed |
| S5-193444 | Correct style for Definition | Ericsson | 32.156 | 0031 | - | Rel-13 | A | OAM11 | agreed |
| S5-193445 | Correct style for Definition | Ericsson | 32.156 | 0032 | - | Rel-14 | A | OAM11 | agreed |
| S5-193446 | Correct style for Definition | Ericsson | 32.156 | 0033 | - | Rel-15 | A | OAM11 | agreed |
| S5-193201 | CR 32.158 Correct the DN to URI mapping rules | Nokia, Nokia Shanghai Bell | 32.158 | 0003 | - | Rel-15 | F | REST\_SS | revised |
| S5-193479 | CR 32.158 Correct the DN to URI mapping rules | Nokia, Nokia Shanghai Bell | 32.158 | 0003 | 1 | Rel-15 | F | REST\_SS | agreed |
| S5-193286 | Rel-15 CR 32.251 Adding APN rate-control information and remove editor's notes | Ericsson | 32.251 | 0513 | - | Rel-15 | F | TEI16 | revised |
| S5-193428 | Rel-15 CR 32.251 Adding APN rate-control information and remove editor's notes | Ericsson | 32.251 | 0513 | 1 | Rel-15 | F | CIoT-CH, TEI15 | agreed |
| S5-193280 | Rel-16 CR 32.254 Addition of NEF charging data for Converged Charging | Ericsson | 32.254 | 0006 | - | Rel-16 | B | 5GS\_Ph1\_NEFCH | revised |
| S5-193327 | Rel-16 CR 32.254 Addition of NEF charging data for Converged Charging | Ericsson | 32.254 | 0006 | 1 | Rel-16 | B | 5GS\_Ph1\_NEFCH | agreed |
| S5-193281 | Rel-16 CR 32.254 Addition of NEF charging information | Ericsson | 32.254 | 0007 | - | Rel-16 | B | 5GS\_Ph1\_NEFCH | revised |
| S5-193328 | Rel-16 CR 32.254 Addition of NEF charging information | Ericsson | 32.254 | 0007 | 1 | Rel-16 | B | 5GS\_Ph1\_NEFCH | agreed |
| S5-193282 | Rel-16 CR 32.254 Addition of NEF trigger information | Ericsson | 32.254 | 0008 | - | Rel-16 | B | 5GS\_Ph1\_NEFCH | revised |
| S5-193326 | Rel-16 CR 32.254 Addition of NEF trigger information | Ericsson | 32.254 | 0008 | 1 | Rel-16 | B | 5GS\_Ph1\_NEFCH | agreed |
| S5-193072 | Rel-16 CR 32.255 Clarification on the Charging Identifier | Huawei | 32.255 | 0056 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-193322 | Rel-16 CR 32.255 Clarification on the Charging Identifier | Huawei | 32.255 | 0056 | 1 | Rel-16 | B | 5GIEPC\_CH | not pursued |
| S5-193073 | Rel-16 CR 32.255 Clarify the Charging Session for interworking | Huawei | 32.255 | 0057 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-193323 | Rel-16 CR 32.255 Clarify the Charging Session for interworking | Huawei | 32.255 | 0057 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-193074 | Rel-16 CR 32.255 Add the quota management for interworking | Huawei | 32.255 | 0058 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-193324 | Rel-16 CR 32.255 Add the quota management for interworking | Huawei | 32.255 | 0058 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-193075 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | 32.255 | 0059 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-193325 | Rel-16 CR 32.255 Definition of charging information for interworking with EPC | Huawei | 32.255 | 0059 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-193083 | CR Rel-16 32.255 Add detailed message format for offline only charging | Huawei | 32.255 | 0060 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193313 | CR Rel-16 32.255 Add detailed message format for offline only charging | Huawei | 32.255 | 0060 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193088 | CR Rel-16 32.255 Add PCF rule for offline only charging service | Huawei | 32.255 | 0061 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193314 | CR Rel-16 32.255 Add PCF rule for offline only charging service | Huawei | 32.255 | 0061 | 1 | Rel-16 | B | OFSBI\_CH | not pursued |
| S5-193100 | Rel-16 CR 32.255 CHF selection in offline only | Nokia, Nokia Shanghai Bell | 32.255 | 0062 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193318 | Rel-16 CR 32.255 CHF selection in offline only | Nokia, Nokia Shanghai Bell | 32.255 | 0062 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193284 | Rel-15 CR 32.255 Correction of Termination action | Ericsson | 32.255 | 0063 | - | Rel-15 | F | TEI16 | revised |
| S5-193345 | Rel-15 CR 32.255 Correction of Termination action | Ericsson | 32.255 | 0063 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193292 | Rel-15 CR 32.255 Correction of Start of a QoS Flow trigger | Ericsson | 32.255 | 0064 | - | Rel-15 | F | TEI16 | revised |
| S5-193436 | Rel-15 CR 32.255 Correction of Start of a QoS Flow trigger | Ericsson | 32.255 | 0064 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193293 | Rel-15 CR 32.255 Correction of missing SDF abbreviation | Ericsson | 32.255 | 0065 | - | Rel-15 | F | TEI16 | revised |
| S5-193465 | Rel-16 CR 32.255 Correction of missing SDF abbreviation | Ericsson | 32.255 | 0065 | 1 | Rel-16 | D | TEI16 | agreed |
| S5-193437 | Rel-16 CR 32.255 Correction of Start of a QoS Flow trigger | Ericsson | 32.255 | 0066 | - | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-193077 | Rel-16 CR 32.290 Clarify the trigger mechanism | Huawei | 32.290 | 0037 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-193425 | Rel-16 CR 32.290 Clarify the trigger mechanism | Huawei | 32.290 | 0037 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193078 | Rel-15 CR 32.290 Clarify the trigger mechanism | Huawei | 32.290 | 0038 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-193424 | Rel-15 CR 32.290 Clarify the trigger mechanism | Huawei | 32.290 | 0038 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193081 | Rel-16 CR 32.290 Addition of message retry | Huawei | 32.290 | 0039 | - | Rel-16 | C | 5GS\_Ph1-SBI\_CH | revised |
| S5-193473 | Rel-16 CR 32.290 Addition of message retry | Huawei | 32.290 | 0039 | 1 | Rel-16 | C | 5GS\_Ph1-SBI\_CH,TEL 16 | agreed |
| S5-193082 | Rel-15 CR 32.290 Addition of message retry | Huawei | 32.290 | 0040 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-193096 | Rel-15 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | 32.290 | 0041 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-193342 | Rel-15 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | 32.290 | 0041 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193097 | Rel-16 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | 32.290 | 0042 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-193343 | Rel-16 CR 32.290 Correction on error handling | Nokia, Nokia Shanghai Bell | 32.290 | 0042 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193154 | Rel-16 CR 32.290 Correct offline only charging service API name | Huawei Tech.(UK) Co., Ltd | 32.290 | 0043 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193315 | Rel-16 CR 32.290 Correct offline only charging service API name | Huawei Tech.(UK) Co., Ltd | 32.290 | 0043 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193176 | Rel-16 CR 32.290 CHF profile for offline only | Nokia, Nokia Shanghai Bell | 32.290 | 0044 | - | Rel-16 | B | OFSBI\_CH | not pursued |
| S5-193283 | Rel-15 CR 32.290 Correction of Failure and Retry handling | Ericsson | 32.290 | 0045 | - | Rel-15 | F | TEI16 | revised |
| S5-193344 | Rel-15 CR 32.290 Correction of Failure and Retry handling | Ericsson | 32.290 | 0045 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193285 | Rel-15 CR 32.290 Correction of result code classification | Ericsson | 32.290 | 0046 | - | Rel-15 | F | TEI16 | not pursued |
| S5-193289 | Rel-15 CR 32.290 Correction of termination handling | Ericsson | 32.290 | 0047 | - | Rel-15 | F | TEI16 | not pursued |
| S5-193291 | Rel-15 CR 32.290 Correction of QBC roaming definition | Ericsson | 32.290 | 0048 | - | Rel-15 | F | TEI16 | not pursued |
| S5-193298 | Rel-15 CR 32.290 Correction of Release naming | Ericsson | 32.290 | 0049 | - | Rel-15 | F | TEI16 | revised |
| S5-193468 | Rel-15 CR 32.290 Correction of Release naming | Ericsson | 32.290 | 0049 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193435 | Rel-16 CR 32.290 Correction of QBC roaming definition | Ericsson | 32.290 | 0050 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-193469 | Rel-16 CR 32.290 Correction of Release naming | Ericsson | 32.290 | 0051 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193076 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | 32.291 | 0056 | - | Rel-16 | B | 5GIEPC\_CH | revised |
| S5-193472 | Rel-16 CR 32.291 Definition of data model for interworking with EPC | Huawei | 32.291 | 0056 | 1 | Rel-16 | B | 5GIEPC\_CH | agreed |
| S5-193079 | Rel-16 CR 32.291 Add the reference for SMS charging | Huawei | 32.291 | 0057 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193080 | Rel-16 CR 32.291 Correct the failure handling | Huawei | 32.291 | 0058 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-193341 | Rel-16 CR 32.291 Correct the failure handling | Huawei | 32.291 | 0058 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193084 | CR Rel-16 32.291 Add Offline only charging service API name | Huawei | 32.291 | 0059 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193316 | CR Rel-16 32.291 Add Offline only charging service API name | Huawei | 32.291 | 0059 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193085 | CR Rel-16 32.291 Add Offline only charging service API resource definition | Huawei | 32.291 | 0060 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193319 | CR Rel-16 32.291 Add Offline only charging service API resource definition | Huawei | 32.291 | 0060 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193086 | CR Rel-16 32.291 Add Offline only charging service API data model | Huawei | 32.291 | 0061 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193320 | CR Rel-16 32.291 Add Offline only charging service API data model | Huawei | 32.291 | 0061 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193087 | CR Rel-16 32.291 Add Offline only charging service API error handling | Huawei | 32.291 | 0062 | - | Rel-16 | B | OFSBI\_CH | revised |
| S5-193321 | CR Rel-16 32.291 Add Offline only charging service API error handling | Huawei | 32.291 | 0062 | 1 | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193098 | Rel-15 CR 32.291 Correction on errors description | Nokia, Nokia Shanghai Bell | 32.291 | 0063 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-193423 | Rel-15 CR 32.291 Correction on errors description | Nokia, Nokia Shanghai Bell | 32.291 | 0063 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193099 | Rel-15 CR 32.291 Correction on Gateway timeout code | Nokia, Nokia Shanghai Bell | 32.291 | 0064 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193206 | Rel-15 CR 32.291 Correction of used unit container attributes | Nokia, Nokia Shanghai Bell | 32.291 | 0065 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193207 | Rel-15 CR 32.291 Correction on binding | Nokia, Nokia Shanghai Bell | 32.291 | 0066 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-193471 | Rel-15 CR 32.291 Correction on binding | Nokia, Nokia Shanghai Bell | 32.291 | 0066 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-193294 | Rel-15 CR 32.291 Correction of trigger type for start of service data flow | Ericsson | 32.291 | 0067 | - | Rel-15 | F | TEI16 | agreed |
| S5-193295 | Rel-15 CR 32.291 Correction of trigger type unit count inactivity timer | Ericsson | 32.291 | 0068 | - | Rel-15 | F | TEI16 | revised |
| S5-193466 | Rel-15 CR 32.291 Correction of trigger type unit count inactivity timer | Ericsson | 32.291 | 0068 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193297 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging release usage | Ericsson | 32.291 | 0069 | - | Rel-15 | F | TEI16 | revised |
| S5-193467 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging release usage | Ericsson | 32.291 | 0069 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193299 | Rel-15 CR 32.291 Correction of missing http status codes | Ericsson | 32.291 | 0070 | - | Rel-15 | F | TEI16 | revised |
| S5-193470 | Rel-15 CR 32.291 Correction of missing http status codes | Ericsson | 32.291 | 0070 | 1 | Rel-15 | F | TEI16 | agreed |
| S5-193317 | CR Rel-16 32.291 Add Offline only charging service API description | Huawei | 32.291 | 0071 | - | Rel-16 | B | OFSBI\_CH | agreed |
| S5-193177 | Rel-15 CR 32.298 Corrections on ASN.1 | Nokia, Nokia Shanghai Bell | 32.298 | 0713 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193178 | Rel-16 CR 32.298 Corrections on ASN.1 | Nokia, Nokia Shanghai Bell | 32.298 | 0714 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193204 | Rel-15 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell | 32.298 | 0715 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-193426 | Rel-15 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell,Ericsson | 32.298 | 0715 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193205 | Rel-16 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell | 32.298 | 0716 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-193427 | Rel-16 CR 32.298 Correction of local sequence number | Nokia, Nokia Shanghai Bell | 32.298 | 0716 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-193287 | Rel-15 CR 32.298 Adding Rate-Control information and triggers to CDRs | Ericsson | 32.298 | 0717 | - | Rel-15 | F | TEI16 | revised |
| S5-193429 | Rel-15 CR 32.298 Adding Rate-Control information and triggers to CDRs | Ericsson | 32.298 | 0717 | 1 | Rel-15 | F | CIoT-CH, TEI15 | agreed |
| S5-193290 | Rel-15 CR 32.298 Correction of Presence Reporting Area | Ericsson | 32.298 | 0718 | - | Rel-15 | F | TEI16 | revised |
| S5-193433 | Rel-15 CR 32.298 Correction of Presence Reporting Area | Ericsson | 32.298 | 0718 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-193296 | Rel-15 CR 32.298 Correction of usage of local sequence number import | Ericsson | 32.298 | 0719 | - | Rel-15 | F | TEI16 | merged |
| S5-193431 | Adding Rate-Control information and triggers to CDRs | Ericsson | 32.298 | 0720 | - | Rel-16 | A | CIoT-CH, TEI15 | agreed |
| S5-193434 | Rel-16 CR 32.298 Correction of Presence Reporting Area | Ericsson | 32.298 | 0721 | - | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-193288 | Rel-15 CR 32.299 Adding Rate-Control information and triggers to Rf offline charging | Ericsson | 32.299 | 0821 | - | Rel-15 | F | TEI16 | revised |
| S5-193430 | Rel-15 CR 32.299 Adding Rate-Control information and triggers to Rf offline charging | Ericsson | 32.299 | 0821 | 1 | Rel-15 | F | CIoT-CH, TEI15 | agreed |
| S5-193432 | Adding Rate-Control information and triggers to Rf offline charging | Ericsson | 32.299 | 0822 | - | Rel-16 | A | CIoT-CH, TEI15 | agreed |
| S5-193277 | CR R15 32421-F00 Update eNB/NG-RAN List of interfaces for NSA support of trace activation of trace activation | Ericsson, NTT DOCOMO | 32.421 | 0076 | - | Rel-15 | F | NETSLICE-5GTRACE | agreed |
| S5-193278 | CR R15 32.422-f10 Update eNB/NG-RAN List of interfaces for NSA support of trace activation | Ericsson, NTT DOCOMO | 32.422 | 0301 | - | Rel-15 | F | NETSLICE-5GTRACE | revised |
| S5-193546 | CR R15 32.422-f10 Update eNB/NG-RAN List of interfaces for NSA support of trace activation | Ericsson, NTT DOCOMO | 32.422 | 0301 | 1 | Rel-15 | F | NETSLICE-5GTRACE | agreed |
| S5-193279 | CR R15 32423-f00 Update Trace Record Content to reflect the NR NRM in 28.541 for NSA support | Ericsson, NTT DOCOMO | 32.423 | 0097 | - | Rel-15 | F | NETSLICE-5GTRACE | revised |
| S5-193450 | CR R15 32423-f00 Update Trace Record Content to reflect the NR NRM in 28.541 for NSA support | Ericsson, NTT DOCOMO | 32.423 | 0097 | 1 | Rel-15 | F | NETSLICE-5GTRACE | agreed |
| S5-193061 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Addition for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0184 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193384 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Addition for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0184 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193062 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Change for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0185 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-193063 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Modification for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0186 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-193064 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Release for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0187 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-193129 | Rel-16 CR 32.425 Add measurement on RRC connection usage per UE multi-RAT capability | P.I. WORKS | 32.425 | 0188 | - | Rel-16 | B | TEI16 | revised |
| S5-193363 | Rel-16 CR 32.425 Add measurement on RRC connection usage per UE multi-RAT capability | P.I. WORKS | 32.425 | 0188 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-193144 | Rel-15 CR TS 32.425 Correction on kbits abbreviation | Huawei | 32.425 | 0189 | - | Rel-15 | F | E-UTRAN-OAM | revised |
| S5-193417 | Rel-15 CR TS 32.425 Correction on kbits abbreviation | Huawei | 32.425 | 0189 | 1 | Rel-15 | A | TEI13 | agreed |
| S5-193145 | Rel-16 CR TS 32.425 Correction on kbits abbreviation | Huawei | 32.425 | 0190 | - | Rel-16 | A | E-UTRAN-OAM | revised |
| S5-193418 | Rel-16 CR TS 32.425 Correction on kbits abbreviation | Huawei | 32.425 | 0190 | 1 | Rel-16 | A | TEI13 | agreed |
| S5-193195 | Add measurement related to QoS of cell | Nokia, Nokia Shanghai Bell | 32.425 | 0191 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-193300 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Change for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0192 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-193301 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Modification for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0193 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-193302 | Rel-16 CR TS 32.425 Add measurements related to Secondary Node Release for E-UTRA-NR Dual Connectivity | ZTE Corporation, China Mobile | 32.425 | 0194 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-193463 | Rel-13 CR TS 32.425 Correction on kbits abbreviation | Huawei | 32.425 | 0195 | - | Rel-13 | F | TEI13 | agreed |
| S5-193464 | Rel-14 CR TS 32.425 Correction on kbits abbreviation | Huawei | 32.425 | 0196 | - | Rel-14 | - | TEI13 | agreed |
| S5-193402 | Rel-16 CR 32.532 Add notifications for threshold monitoring | Intel | 32.532 | 0038 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-193538 | Rel-16 CR 32.532 Add notifications for threshold monitoring | Intel | 32.532 | 0038 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-193245 |  | LS from CT to SA5 on Handling of non-essential corrections (non-FASMO) CRs and non-backwards compatible CRs | CP-190218 | noted | (none) |
| S5-193246 |  | LS from RAN1 to SA5 on completion of CLI-RIM in RAN1 | R1-1903676 | postponed | (none) |
| S5-193247 |  | Ls from RAN2 cc SA5 on L1 and L2 measurements | R2-1902806 | noted | (none) |
| S5-193248 |  | LS from RAN2 to SA5 on network slicing terminology | R2-1902823 | noted | (none) |
| S5-193249 |  | Reply LS from RAN3 cc SA5 on Data Volume Reporting for 5GC | R3-190935 | noted | (none) |
| S5-193250 |  | Reply LS from RAN3 ccSA5 on providing information on SLA fulfilment to NG-RAN | R3-191091 | noted | (none) |
| S5-193251 |  | Resubmitted LS from ITU-TSG12 to SA5 on Draft new Recommendation E.RQST – “KPI targets for mobile networks” | ITU-T SG12 | noted | (none) |
| S5-193252 |  | LS from TSG RAN ccSA5 on Draft new Recommendation E.RQST – “KPI targets for mobile networks” | RP-190673 | noted | (none) |
| S5-193253 |  | LS from TSG SA ccSA5 in reply to LS on Draft new Recommendation E.RQST – “KPI targets for mobile networks”LS in reply to LS on Draft new Recommendation E.RQST – “KPI targets for mobile networks” | SP-190269 | noted | (none) |
| S5-193254 |  | LS from SA2 to SA5 on the slicing terminology and the role of S-NSSAI parameter | S2-1902847 | postponed | - |
| S5-193255 |  | Resubmitted LS to SA2 and SA5 on VoWiFi – VoLTE handover | GSMA | postponed | (none) |
| S5-193256 |  | LS from SA2 cc SA5 on VoWiFi – VoLTE handover | S2-1902884 | noted | (none) |
| S5-193257 |  | LS from TSG SA ccSA5 on Information on MEC work on 5G | SP-190251 | noted | (none) |
| S5-193258 |  | LS from SA2 ccSA5 on Information on MEC work on 5G | S2-1902907 | noted | (none) |
| S5-193259 |  | LS from ITU-T SG2 to SA5 on cooperation on methodology harmonization and REST-based network management framework | ITU-T SG2 | postponed | (none) |
| S5-193260 |  | 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 | noted | (none) |
| S5-193308 |  | Response LS to GSMA ccSA5 on NEST\_59\_004 on ‘GST and Cooperation with industry partners | BBF | replied to | S5-193350 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-193350 | Reply to: Response LS to GSMA ccSA5 on NEST\_59\_004 on ‘GST and Cooperation with industry partners | BBF,GSMA | - | S5-193308 |
| S5-193391 | LS on Data activity reporting | RAN3 | RAN2 | - |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-193311 | IMS Charging in 5G System Architecture | T-Mobile USA | WID new |
| S5-193312 | Revised WID on Volume Based Charging Aspects for VoLTE | China Mobile | WID revised |
| S5-193368 | Revised WID on energy efficiency of 5G | Orange Romania | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-193123 | 28.808 | 0.0.0 | Table of Content for TR 28.808 (FS\_5GSAT\_MO) |
| S5-193146 | 28.807 | 0.0.0 | Initial skeleton of TR 28.807 |
| S5-193339 | 32.845 | 0.4.0 | Draft R 32.845 |
| S5-193340 | 32.256 | 0.2.0 | Draft TS 32.256 |
| S5-193365 | 28.405 | 0.6.0 | Draft TS 28.405 |
| S5-193369 | 28.812 | 0.5.0 | Draft TR 28.812 |
| S5-193484 | 28.805 | 0.5.0 | Draft TR 28.805 |
| S5-193508 | 28.861 | 0.5.0 | Draft TR 28.861 |
| S5-193521 | 28.807 | 0.0.1 | Initial skeleton of TR 28.807 |
| S5-193525 | 28.808 | 0.1.0 | Draft TR 28.808 |
| S5-193528 | 28.310 | 0.4.0 | Draft TS 28.310 |
| S5-193530 | 28.804 | 0.4.0 | Draft TR 28.804 |
| S5-193541 | 28.803 | 0.5.0 | Draft TR 28.803 |

## Annex F: List of action items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details | Responsible | Due by |
| 125/1 | 4.2 | S5-193015 | Consider the use of ETSI FORGE and get familiar with the process agreed in CT Plenary. | SA5 all | 2019-06-27 |

## Annex G: List of participants

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Employer Category Code | Organization Represented | Organization Represented Category Code |
| Dr. | Al-kanani | Hassan | Delegate | NEC Europe Ltd | ETSI | NEC Telecom MODUS Ltd. | ETSI |
| Mr. | Andrianov | Anatoly | Delegate | Nokia Germany | ETSI | Nokia Japan | ARIB |
| Mrs. | Ayani | Zhulia | Delegate | Ericsson LM | ETSI | Ericsson Inc. | ATIS |
| Mr. | Cano Soveri | Mirko | Secretary | ETSI | ETSI | ETSI | ETSI |
| Mr. | Chater-Lea | David | Delegate | Motorola Solutions UK Ltd. | ETSI | Motorola Solutions UK Ltd. | ETSI |
| Miss | CHEN | SHAN | Delegate | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies France | ETSI |
| Dr. | Choi | Taesang | Delegate | ETRI |  | ETRI | TTA |
| Mr. | Chou | Joey | Delegate | Intel Corporation (UK) Ltd | ETSI | Intel Corporation (UK) Ltd | ETSI |
| Mr. | Edwards | Robert | Delegate | Matrixx | ETSI | Matrixx | ETSI |
| Mrs. | Gardella | Maryse | Subgroup chairman | Nokia France | ETSI | Nokia UK | ETSI |
| Miss | Ge | Cuili | Delegate | Huawei Technologies Co. Ltd. | ETSI | Huawei Technologies Co. Ltd. | ETSI |
| Mr. | Harper | Colby | Delegate | Pivotal Commware | ATIS | Pivotal Commware | ATIS |
| Mr. | Horvat | Attila | Delegate | Huawei Technologies Sweden AB | ETSI | Huawei Telecommunication India | TSDSI |
| Mr. | IJntema | Wieger | Delegate | TNO | ETSI | KPN N.V. | ETSI |
| Mr. | Jahangir | Zeeshan | Delegate | T-Mobile USA Inc. | ATIS | T-Mobile USA Inc. | ATIS |
| Mr. | Jan | Onnegren | Delegate | Ericsson LM | ETSI | Ericsson-LG Co., LTD | TTA |
| Mr. | Jesske | Roland | Delegate | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| Mr. | Klotz | Michael | Delegate | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| Dr. | Lagha | Naceur | Delegate | Amdocs Software Systems Ltd | ETSI | Amdocs Software Systems Ltd | ETSI |
| Mr. | Lazara | Dominic | Delegate | Motorola Solutions UK Ltd. | ETSI | Motorola Solutions Germany | ETSI |
| Mr. | Lengyel | Balazs | Rapporteur | Ericsson Hungary Ltd | ETSI | Ericsson Hungary Ltd | ETSI |
| Mr. | Li | Gang | Delegate | Nanjing Ericsson Panda Com Ltd | CCSA | Ericsson India Private Limited | TSDSI |
| Dr. | Liao | Ellen C. | Delegate | Intel | ATIS | Intel Corporation SAS | ETSI |
| Mr. | McNamee | Alan | Delegate | Openet Telecom | ETSI | Openet Telecom | ETSI |
| Mr. | MENG | WEI | Delegate | ZTE Corporation | ETSI | ZTE Wistron Telecom AB | ETSI |
| Mr. | MICHEL | Cyril | Delegate | THALES | ETSI | THALES | ETSI |
| Ing. | Moggio | Fabrizio | Delegate | TELECOM ITALIA S.p.A. | ETSI | TELECOM ITALIA S.p.A. | ETSI |
| Mr. | Negalaguli | Harish | Delegate | Motorola Solutions UK Ltd. | ETSI | Motorola Solutions Poland | ETSI |
| Dr. | Oyman | Ozgur | Delegate | Intel Corporation (UK) Ltd | ETSI | Intel Deutschland GmbH | ETSI |
| Mr. | Petersen | Robert | Rapporteur | Ericsson LM | ETSI | Ericsson Limited | ETSI |
| Miss | Ping | Jing | Delegate | Nokia Germany | ETSI | Nokia Korea | TTA |
| Mr. | Plante | Fabrice | Delegate | Intel Deutschland GmbH | ETSI | Intel K.K. | ARIB |
| Dr. | Pollakowski | Olaf | Delegate | Nokia Germany | ETSI | Nokia Corporation | ETSI |
| Mr. | Potter | Benjamin | Delegate | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Mr. | Rahman | Moshiur | Delegate | HUAWEI TECH. GmbH | ETSI | Huawei Technologies Japan K.K. | TTC |
| Mr. | Sakae | Kozo | Delegate | DOCOMO Communications Lab. | ETSI | NTT DOCOMO INC. | TTC |
| Mr. | Smith | David K. | Delegate | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Mr. | Sofuoglu | Serkan | Delegate | P.I. WORKS | ETSI | P.I. WORKS | ETSI |
| Mr. | Toche | Christian | Vice Chairman | Huawei Technologies France | ETSI | Futurewei Technologies | ATIS |
| Mr. | Törnkvist | Robert | Delegate | Ericsson LM | ETSI | Ericsson España S.A. | ETSI |
| Mr. | Tovinger | Thomas | Chairman | Ericsson LM | ETSI | Ericsson LM | ETSI |
| Mr. | Tse | Edwin | Delegate | Ericsson LM | ETSI | Ericsson France S.A.S | ETSI |
| Mr. | Xu | Ruiyue | Delegate | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Tech.(UK) Co., Ltd | ETSI |
| Dr. | Yanover | Vladimir | Delegate | Cisco Systems Belgium | ETSI | Cisco Systems Belgium | ETSI |
| Mr. | Yao | Yizhi | Delegate | Intel Corporation (UK) Ltd | ETSI | Intel Corporation SAS | ETSI |
| Mr. | Zhang | Kai | Delegate | Huawei Tech.(UK) Co., Ltd | ETSI | HiSilicon Technologies Co. Ltd | CCSA |
| Mr. | Zhu | Lei | Delegate | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies (Korea) | TTA |
| Mr. | Zhu | Weihong | Delegate | ZTE Corporation | ETSI | ZTE Corporation | CCSA |

## Annex H: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5-Ad Hoc | 2019-06-24 | 2019-06-28 | Sapporo | JP | S5-ah-40151 |
| SA5#126 | 2019-08-19 | 2019-08-23 | Bruges | BE | S5-126 |
| SA5-127 | 2019-10-21 | 2019-10-25 | Sophia Antipolis | FR | S5-127 |
| SA5#128 | 2019-11-18 | 2019-11-22 | China | CN | S5-128 |