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

**Meeting Report  
for  
TSG SA WG5  
meeting: 128**

**Zhuhai, China, 18/11/2019 to 22/11/2019**

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## 1 Opening of the meeting

## 2 Approval of the agenda

**S5-197000 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.

**S5-197001 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

**S5-197002 Report from last SA5 meeting**

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

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

### 4.2 Last SA meeting report

**S5-197015 SA5 status report at last SA meeting**

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

**Decision:** The document was **withdrawn**.

**S5-197016 SA5 results at last SA meeting**

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

**Decision:** The document was **withdrawn**.

### 4.3 Inter-organizational reports

## 5 Cross-SWG issues

### 5.1 Administrative issues at SA5 level

**S5-197003 Leaders meeting agenda**

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

**Discussion:**

Chairman presented the contribution.

Ericsson pointed out SA5 need an instruction to handle the Publication of separate code file for the OpenAPI problem.

Nokia commented how to handle the code in SA5, it need to check with MCC to decide the solution for SA5.

Orange pointed out CT WGs using ETSI forge to store the code and Orange has contribution on how to capture the code file, however the situation is difference for SA5.

Chairman suggested to check offline with MCC about the procedure for this issue.

Chairman pointed out that the Conditional CRs which agreed in last meeting need to be concluded.

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

**S5-197004 Leaders meeting minutes**

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

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

**S5-197005 SA5 Working Procedures**

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

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

**S5-197006 SA5 Meeting Facility Requirements**

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

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

**S5-197007 Process for management of draft TSs/TRs**

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

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

**S5-197008 CR Quality Check**

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

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

**S5-197009 Status of email approvals**

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

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

### 5.2 Technical issues at SA5 level

### 5.3 Liaison statements at SA5 level

**S5-197139 Resubmitted reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-191841*

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

**S5-197149 Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1910807*

**Discussion:**

Nokia: need to clarify how NEST make available by SA2 with this working assumption.

Ericsson: The diagram shows that how the information translated to SA2Agreed to have a reply for this LS.

Huawei: has 2 related LSs (S5-196891 and S5-196868) in SA5#127, but S5-196868 was not sent to SA2, maybe SA5 could re-use S5-196868 as basis to reply.

Vice Chair(Maryse): Charging group is also interested in this issue.

Chairman concluded that SA5 decide to reply this LS on Wednesday.

**Decision:** The document was **replied to in S5-197540**.

**S5-197540 Reply to: Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2**

*Type: LS out For: approval  
 to S2-1910807  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197715**.

**S5-197715 Reply to: Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2**

*Type: LS out For: approval  
 to SA2, cc SA  
 Source: Ericsson*

(Replaces S5-197540)

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

### 5.4 SA5 meeting calendar

**S5-197010 SA5 Meeting Calendar**

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

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

### 5.5 Review of the Work Plan

**S5-197011 3GPP SA5 Work Plan**

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

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-197012 Time Plan for OAM&P**

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

**Discussion:**

Nokia, Ericsson, Huawei, Intel, CMCC etc. commented that delegates cannot attend the parallel meeting for the topics which they are interested. The delegates got agreement finally.

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

**S5-197013 OAM Executive Report**

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

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

**S5-197014 OAM&P SWG action list**

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

**Discussion:**

Vice Chair(Zou Lan) presented the action list for SA5, Zou Lan proposes to close 118.1.

Intel commented that the owner of 127.1 should be Huawei.

Vice Chair(Zou Lan) will update the owner of the action points.

**Decision:** The document was **revised to S5-197547**.

**S5-197547 OAM&P SWG action list**

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

(Replaces S5-197014)

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

**S5-197753 OAM&P SWG action list**

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

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

**S5-197141 Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340)**

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

**Discussion:**

Chairman pointed out that SA5 could reply what SA5 knows.

**Decision:** The document was **replied to in S5-197541**.

**S5-197541 Reply to: Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340)**

*Type: LS out For: approval  
 to ITU-T SG2  
 Source: Nokia*

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

**S5-197147 Reply LS ccSA5 on LS on the IAB-indication to core network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1910281*

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

**S5-197148 LS to SA5 on whether new 5QI needs for IAB OAM traffic**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1910347*

**Discussion:**

Huawei commented that SA5 need some clarifications about what is OAM traffic types.

Intel: Clarify whether existing 5QI is sufficient. Check whether IAB has special requirements for OAM data to be transferred in real-time.

Nokia suggested that reply to SA2 only thank them for pointing out the problem, SA5 needs more time to analyse this issue.

**Decision:** The document was **replied to in S5-197542**.

**S5-197542 Reply to: LS to SA5 on whether new 5QI needs for IAB OAM traffic**

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

**Decision:** The document was **revised to S5-197814**.

**S5-197814 Reply to: LS to SA5 on whether new 5QI needs for IAB OAM traffic**

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

(Replaces S5-197542)

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

**S5-197150 Reply LS to SA5 on QoE Measurement Collection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-191234*

**Decision:** The document was **replied to in S5-197543**.

**S5-197543 Reply to: Reply LS to SA5 on QoE Measurement Collection**

*Type: LS out For: approval  
 to S4-191234  
 Source: SA5*

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

**S5-197151 LS to SA5 on O-RAN – 3GPP Cooperation on Management Services**

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

**Discussion:**

Nokia presented the LS and would like to reply this LS.

Ericsson commented that the bullet for gNB DU NRM is ambiguous. How consumer make use of ORAN DU spec and 3GPP spec DU?

Chairman reply that it's out of this LS and should be discussed offline

Intel: clarify the meaning of file ready..

Orange has a related LS out S5-197476.

Offline discussion.

**Decision:** The document was **replied to in S5-197476**.

**S5-197237 LS to SA5 on O-RAN – 3GPP Cooperation on Management Services**

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

**Discussion:**

Ericsson pointed out that SA5 is positive for the issue described in this LS.

**Decision:** The document was **replied to in S5-197546**.

**S5-197546 Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services**

*Type: LS out For: approval  
 to O-RAN Alliance / WG5, cc 3GPP SA, 3GPP RAN  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197815**.

**S5-197815 Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services**

*Type: LS out For: approval  
 to O-RAN Alliance / WG5, cc 3GPP SA, 3GPP RAN  
 Source: Ericsson*

(Replaces S5-197546)

**Decision:** The document was **revised to S5-197839**.

**S5-197839 Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services**

*Type: LS out For: approval  
 to O-RAN Alliance / WG5, cc SA, RAN  
 Source: Ericsson*

(Replaces S5-197815)

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

**S5-197285 Overview of the 5G specification structure**

*Type: other For: Information  
 Source: HiSilicon Technologies Co. Ltd*

**Abstract:**

Update based on S5-196172 Overview of the 5G specification structure

**Discussion:**

Ericsson suggested to take a look at 28.532 for the SA5 specification structure and need to add Trace specs

Chairman pointed out that SA5 needs some improvement about the structure.

Nokia commented that 28.632 is missing in Generic service.

Intel: 28.544 is removed.

Offline discussion.

**Decision:** The document was **revised to S5-197548**.

**S5-197548 Overview of the 5G specification structure**

*Type: other For: Information  
 Source: HiSilicon Technologies Co. Ltd*

(Replaces S5-197285)

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

**S5-197287 Potential Rel-17 SA5 OAM work area**

*Type: discussion For: Endorsement  
 Source: HiSilicon Technologies Co. Ltd*

**Discussion:**

Huawei presented the contribution. SA5 should freeze the stage 1 in this meeting.

Samsung commented that eCOSLA should be restricted in R16.

Intel: what's the principle of potential main focus aspects .

Ericsson: this issue should be discussed in SA and need to sync up the time plan with SA2, or even sync stage1 with SA1 schedule.

Huawei: SA2 has already start R17 work, if SA5 still use the R16 WID, the work will be difficult. SA5 only has three R17 WIDs now.

Nokia: Does Huawei will take this to SA. Huawei(Zoulan): YES.

Nokia: the R-17 SA#85 prioritized items list is strong related with SA2, not for other SA WGs, SA5 also need to provide some information of SA5 to SA, such as add the related WID in SA2/RAN.

Chairman: it's hard to modify it by SA5 along, SA5 needs to contact with other SA WGs.

Intel: the other SA WGs need to involved into the discussion of the prioritized items, not only lead by SA2. SA5 also have some features need to be supported by other WGs. Intel agree that the contribution from Zoulan, SA5 needs our own contribution and take it to SA.

Chairman: SA5 starts this discussion very late, SA5 needs to find a smart way to propose SA5's proposals.

Ericson: SA2 has started the discussion of the prioritize items, SA5 needs to do it also. SA5 needs to show what SA5 has already done and send contribution to SA.

Samsung: the prioritized items has been endorsed by SA. Without OAM group supports this, these WID can't not work.

Chairman: however there are not too many SA5 R17 WIDs.

Orange: a WID is not in the list of prioritized items.

Offline discussion.

**Decision:** The document was **revised to S5-197549**.

**S5-197549 Potential Rel-17 SA5 OAM work area**

*Type: discussion For: Endorsement  
 Source: HiSilicon Technologies Co. Ltd*

(Replaces S5-197287)

**Decision:** The document was **revised to S5-197801**.

**S5-197801 Potential Rel-17 SA5 OAM work area**

*Type: discussion For: Endorsement  
 Source: HiSilicon Technologies Co. Ltd*

(Replaces S5-197549)

**Decision:** The document was **revised to S5-197816**.

**S5-197816 Potential Rel-17 SA5 OAM work area**

*Type: discussion For: Endorsement  
 Source: HiSilicon Technologies Co. Ltd*

(Replaces S5-197801)

**Discussion:**

SA5 could accept to keep the information of this contribution for SA discussion.

Eriksson: if SA5 endorsed this Tdoc, is that means some companies could not say they don't want to proceed these WIDs in the list.

Huawei: it's better that SA5 has some contribution for Dec. SA meeting.

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

**S5-197363 SA5#128\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

*Type: other For: (not specified)  
 Source: SA5 Vice Chairman (Huawei)*

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

**S5-197476 LS reply to LS on O-RAN – 3GPP Cooperation on Management Services**

*Type: LS out For: Approval  
 to O-RAN WG1, 3GPP SA, cc 3GPP RAN  
 Source: Orange*

**Discussion:**

Ericsson: this LS could be used as the basis to reply S5-197151. How does SA5 collaborate with O-RAN?

E///, Nokia, Samsung, Intel would like to join the offline discussion and reply this LS.

**Decision:** The document was **revised to S5-197545**.

**S5-197545 LS reply to LS on O-RAN – 3GPP Cooperation on Management Services**

*Type: LS out For: Approval  
 to O-RAN WG1, 3GPP SA, cc 3GPP RAN, 3GPP SA  
 Source: Orange*

(Replaces S5-197476)

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

**S5-197479 LS on Application Architecture for enabling Edge Applications**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: S6-192399*

**Discussion:**

Probably need OAM requirement and solution for this architecture as well.

Samsung could send a reply to SA6 to show what OAM relates group to do for this work.

Intel: SA5 may be better to start a related work item in SA5 first.

Nokia, Huawei: if Samsung would like to start a WID and be the rapporteur, Nokia and Huawei will support.

Samsung volunteer to draft a reply LS.

**Decision:** The document was **replied to in S5-197601**.

**S5-197601 Reply to: LS on Application Architecture for enabling Edge Applications**

*Type: LS out For: approval  
 to S6-192399  
 Source: Samsung*

**Decision:** The document was **revised to S5-197752**.

**S5-197752 Reply to: LS on Application Architecture for enabling Edge Applications**

*Type: LS out For: approval  
 to SA6, cc SA2  
 Source: Samsung*

(Replaces S5-197601)

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

**S5-197550 Chair notes on OAM sessions**

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

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

**S5-197784 Handling of separate code files**

*Type: other For: Endorsement  
 Source: Chairman*

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

**S5-197785 Reply LS on clarification of OAM requirements for RIM**

*Type: LS in For: -  
 Original outgoing LS: -, to -, cc -  
 Source: R3-197540*

**Discussion:**

postponed to next meeting

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

### 6.2 New OAM&P Work Item proposals

**S5-197084 New WID on end-to-end procedure of slicing management**

*Type: discussion For: Decision  
 Source: AsiaInfo*

(Replaces S5-196575)

**Abstract:**

New WI on End-to-End Procedure of Slicing Management is proposed.

**Discussion:**

AsiaInfo presented the New WID.

Chairman: it should only have one rapporteur, not two rapporteurs.

Nokia: CMCC has an SLA WID, is there any difference with the objective of this WID. The TS listed in this contribution is not introducing the related functions.

Intel: Justification shows you need a procedure, but the objective doesn't show that you need a procedure. The title of this WID is 'end to end', however some layers below are not covered. We need to know what's the relation with the existing WID.

Orange: Take a look at 28.531 on the slicing journey..

CMCC: clarifying that the 5G\_SLA is not the end to end translation between BSS and OSS.

Nokia disagreed with this clarification from CMCC.

Ericsson: clarification relation with TMF work? The figure is not correct, hard to understand.

AsiaInfo: TMF forum didn't defined the procedure of end to end procedure of slicing management. Huawei's WID only cover OSS, not BSS. So AsiaInfo try to propose this WID.

Vice Chair(Maryse) Notes: Charging description/billing needs to be removed. Check existing charging WID (comments to be communicated to OAM)

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

**S5-197716 New WID on 5G management capabilities**

*Type: WID new For: Approval  
 Source: AT&T, Orange*

**Decision:** The document was **revised to S5-197817**.

**S5-197817 New WID on 5G management capabilities**

*Type: WID new For: Approval  
 Source: AT&T, Orange,Deutsche Telekom*

(Replaces S5-197716)

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

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

**S5-197053 [Resubmitted] Rel-15 CR 28.550 Add stream information management related operations**

*Type: CR For: Agreement  
 28.550 v15.2.0 CR-0032 rev 1 Cat: F (Rel-15)  
  
 Source: Intel Finland Oy*

(Replaces S5-196331)

**Decision:** The document was **revised to S5-197731**.

**S5-197731 [Resubmitted] Rel-15 CR 28.550 Add stream information management related operations**

*Type: CR For: Agreement  
 28.550 v15.2.0 CR-0032 rev 2 Cat: F (Rel-15)  
  
 Source: Intel Finland Oy*

(Replaces S5-197053)

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

**S5-197054 [Resubmitted] Rel-16 CR 28.550 Add stream information management related operations**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0033 rev 1 Cat: A (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196332)

**Decision:** The document was **revised to S5-197732**.

**S5-197732 [Resubmitted] Rel-16 CR 28.550 Add stream information management related operations**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0033 rev 2 Cat: A (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-197054)

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

**S5-197055 [Resubmitted] Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0145 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196610)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

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

**S5-197059 Rel-16 CR TS 28.541 XML Solution Set for 5GC**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0175 rev 1 Cat: F (Rel-16)  
  
 Source: CATT,Huawei*

(Replaces S5-196296)

**Decision:** The document was **revised to S5-197730**.

**S5-197730 Rel-16 CR TS 28.541 XML Solution Set for 5GC**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0175 rev 2 Cat: F (Rel-16)  
  
 Source: CATT,Huawei*

(Replaces S5-197059)

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

**S5-197079 Correct NR TAC attribute property**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0160 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

(Replaces S5-196155)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

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

**S5-197080 Correct NR TAC attribute property**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0168 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-196241)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

**Decision:** The document was **revised to S5-197754**.

**S5-197754 Correct NR TAC attribute property**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0168 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-197080)

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

**S5-197081 CR Rel-15 28.532 v1530 correct event time defn**

*Type: CR For: Approval  
 28.532 v15.3.0 CR-0074 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-197736**.

**S5-197736 CR Rel-15 28.532 v1530 correct event time defn**

*Type: CR For: Approval  
 28.532 v15.3.0 CR-0074 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-197081)

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

**S5-197082 Correct event time defn**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0075 Cat: A (Rel-16)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-197737**.

**S5-197737 Correct event time defn**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0075 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson Inc.*

(Replaces S5-197082)

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

**S5-197083 Add notifyAlert**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0076 Cat: B (Rel-16)  
  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-197740**.

**S5-197740 Add notifyAlert**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0076 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson Inc.*

(Replaces S5-197083)

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

**S5-197085 Add configurable FM**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0077 Cat: C (Rel-16)  
  
 Source: Ericsson Inc.*

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

**S5-197086 Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0046 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197725**.

**S5-197725 Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0046 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197086)

**Decision:** The document was **revised to S5-197755**.

**S5-197755 Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0046 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197725)

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

**S5-197087 Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0047 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197726**.

**S5-197726 Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0047 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197087)

**Decision:** The document was **revised to S5-197756**.

**S5-197756 Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0047 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197726)

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

**S5-197088 Rel-16 CR TS 28.533 Add example of utilization of MnS(s) for different network deployment scenarios**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0048 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-197104 Rel-16 CR TS 28.533 Some correction on the reference in Clause 5.3**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0049 Cat: F (Rel-16)  
  
 Source: Huawei Technologies Japan K.K.*

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

**S5-197105 Add managedNFProfile definition for ngc NRM - stage3**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0200 Cat: C (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-197757**.

**S5-197757 Add managedNFProfile definition for ngc NRM - stage3**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0200 rev 1 Cat: C (Rel-16)  
  
 Source: CATT*

(Replaces S5-197105)

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

**S5-197106 Concept clarification for Network Slice**

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

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

**S5-197156 Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.530 v15.2.0 CR-0012 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197738**.

**S5-197738 Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.530 v15.2.0 CR-0012 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197156)

**Decision:** The document was **revised to S5-197758**.

**S5-197758 Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.530 v15.2.0 CR-0012 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197738)

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

**S5-197157 Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0013 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197739**.

**S5-197739 Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0013 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197157)

**Decision:** The document was **revised to S5-197759**.

**S5-197759 Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0013 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197739)

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

**S5-197158 15 CR TS 28.531 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.531 v15.4.0 CR-0035 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197722**.

**S5-197722 15 CR TS 28.531 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.531 v15.4.0 CR-0035 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197158)

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

**S5-197159 Rel-16 CR TS 28.531 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.531 v16.3.0 CR-0036 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197723**.

**S5-197723 Rel-16 CR TS 28.531 Fix inconsistencies in the usage of word instance**

*Type: CR For: Agreement  
 28.531 v16.3.0 CR-0036 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197159)

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

**S5-197171 Fix merging errors of the specification**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0192 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196468)

**Discussion:**

Ericsson(Ping Jing): The change of Figure 5.2.1.1-1 of this CR is dependent on CR 0184 (S5-196702). If CR 0184 (S5-196702) is agreed, please ignore the change on Figure 5.2.1.1-1 of this CR.

MCC: if CR 0184 (S5-196702) is agreed you need to revise this CR, otherwise a clash will happen and the CR will be rejected.

Ping Jing said she has check with Mirko last meeting and got the agreement that MCC will do the merging work. So the revision of this CR is not needed.

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

**S5-197249 Discussion paper on resolution of Editor's note in TS 32.160 clause W4.3**

*Type: discussion For: Endorsement  
 Source: L.M. Ericsson Limited*

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

**S5-197250 CR Rel-16 32.160 Resolution of Editor's Note in clause W4.3 Class definitions**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0003 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

**Decision:** The document was **revised to S5-197744**.

**S5-197744 CR Rel-16 32.160 Resolution of Editor's Note in clause W4.3 Class definitions**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0003 rev 1 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

(Replaces S5-197250)

**Decision:** The document was **revised to S5-197772**.

**S5-197772 CR Rel-16 32.160 Resolution of Editor's Note in clause W4.3 Class definitions**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0003 rev 2 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

(Replaces S5-197744)

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

**S5-197251 CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0036 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

**Decision:** The document was **revised to S5-197743**.

**S5-197743 CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0036 rev 1 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

(Replaces S5-197251)

**Decision:** The document was **revised to S5-197771**.

**S5-197771 CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0036 rev 2 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

(Replaces S5-197743)

**Decision:** The document was **revised to S5-197824**.

**S5-197824 CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0036 rev 3 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

(Replaces S5-197771)

**Decision:** The document was **revised to S5-197840**.

**S5-197840 CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0036 rev 4 Cat: F (Rel-16)  
  
 Source: L.M. Ericsson Limited*

(Replaces S5-197824)

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

**S5-197274 Rel-15 CR TS 28.622 update the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.622 v15.3.1 CR-0058 Cat: F (Rel-15)  
  
 Source: ZTE Corporation, Ericsson*

**Decision:** The document was **revised to S5-197733**.

**S5-197733 Rel-15 CR TS 28.622 update the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.622 v15.3.1 CR-0058 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE Corporation, Ericsson*

(Replaces S5-197274)

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

**S5-197275 Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs**

*Type: CR For: Agreement  
 28.622 v16.1.1 CR-0059 Cat: A (Rel-16)  
  
 Source: ZTE Corporation, Ericsson*

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

**S5-197276 Rel-15 CR TS 28.623 update the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.623 v15.3.0 CR-0036 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-197734**.

**S5-197734 Rel-15 CR TS 28.623 update the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.623 v15.3.0 CR-0036 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

(Replaces S5-197276)

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

**S5-197277 Rel-16 CR TS 28.623 Add the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0037 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-197735**.

**S5-197735 Rel-16 CR TS 28.623 Add the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0037 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S5-197277)

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

**S5-197291 Correct Network slice NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0212 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-197724**.

**S5-197724 Correct Network slice NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0212 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-197291)

**Decision:** The document was **revised to S5-197760**.

**S5-197760 Correct Network slice NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0212 rev 2 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-197724)

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

**S5-197321 Update Stage 3 SEPP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197327 Rel15 Refine NRM JSON structure**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0214 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197331 Rel16 Refine NRM JSON structure**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0215 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197409 Rel-16 CR 32.533 Clarify numerous definitions**

*Type: CR For: Approval  
 28.533 v16.1.0 CR-0053 Cat: D (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197728**.

**S5-197728 Rel-16 CR 28.533 Clarify numerous definitions**

*Type: CR For: Approval  
 28.533 v16.1.0 CR-0053 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197409)

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

**S5-197418 CR 32.158 Clarify design pattern for scoping and filtering**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0004 rev 1 Cat: B (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196433)

**Decision:** The document was **revised to S5-197720**.

**S5-197720 CR 32.158 Clarify design pattern for scoping and filtering**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0004 rev 2 Cat: B (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197418)

**Decision:** The document was **revised to S5-197825**.

**S5-197825 CR 32.158 Clarify design pattern for scoping and filtering**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0004 rev 3 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197720)

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

**S5-197420 CR 32.158 Clarify design pattern for attribute field selection**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0010 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196446)

**Decision:** The document was **revised to S5-197721**.

**S5-197721 CR 32.158 Clarify design pattern for attribute field selection**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0010 rev 2 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197420)

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

**S5-197428 Rel-16 CR 28.532 Make scoping and filtering optional in CRUD operations**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0069 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196439)

**Decision:** The document was **revised to S5-197761**.

**S5-197761 Rel-16 CR 28.532 Make scoping and filtering optional in CRUD operations**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0069 rev 2 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197428)

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

**S5-197429 CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0071 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196451)

**Decision:** The document was **revised to S5-197762**.

**S5-197762 CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0071 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197429)

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

**S5-197432 Correction of definition and reference**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0089 Cat: F (Rel-15)  
  
 Source: Ericsson India Private Limited*

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

**S5-197443 Add New Trace data Requirement**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0090 Cat: F (Rel-15)  
  
 Source: Ericsson India Private Limited*

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

**S5-197444 Correct schema to reflect location in the specifications**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0081 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-197741**.

**S5-197741 Correct schema to reflect location in the specifications**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0081 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

(Replaces S5-197444)

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

**S5-197445 Correct XML Schema for consistency and clarity**

*Type: CR For: Approval  
 32.532 v16.1.0 CR-0038 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-197742 Correct XML Schema for consistency and clarity**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0082 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-197447 Removing not used reference and add reference to definition**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0309 Cat: F (Rel-15)  
  
 Source: Ericsson India Private Limited*

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

**S5-197729 Rel-16 CR 28.533 Clarify numerous definitions**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0054 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

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

#### 6.4.1 Management of QoE measurement collection

**S5-197017 Minutes of Management of QoE measurement collection**

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

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

#### 6.4.2 Energy Efficiency of 5G

**S5-197018 Minutes of Energy efficiency of 5G**

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

**Decision:** The document was **revised to S5-197652**.

**S5-197652 Minutes of Energy efficiency of 5G**

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

(Replaces S5-197018)

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

**S5-197142 Resubmitted LS/r on Energy Efficiency on 5G (3GPP TSG SA5-S5-195667)**

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

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

**S5-197308 pCR 28.310 Cleanup proposal**

*Type: pCR For: Approval  
 28.310 v1.1.0  
 Source: Huawei, Orange*

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

**S5-197346 Revised WID on energy efficiency of 5G**

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

**Decision:** The document was **revised to S5-197613**.

**S5-197613 Revised WID on energy efficiency of 5G**

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

(Replaces S5-197346)

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

**S5-197359 discussion on introducing network data analysis for wireless energy saving**

*Type: discussion For: Endorsement  
 28.310 v..  
 Source: China Telecom Corporation Ltd., CATT*

**Abstract:**

This contribution proposes to discuss the usage of network data analysis in energy efficiency evaluation.

**Decision:** The document was **revised to S5-197679**.

**S5-197679 discussion on introducing network data analysis for wireless energy saving**

*Type: discussion For: Endorsement  
 28.310 v..  
 Source: China Telecom Corporation Ltd., CATT*

(Replaces S5-197359)

**Discussion:**

SA5 agreed to take MDA assisted energy saving into account in the Rel-17 Study on enhancement of MDAS

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

**S5-197364 LS to SA2 on Energy Efficiency of 5G**

*Type: LS out For: Approval  
 to 3GPP SA2  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

3GPP SA5 would like to inform SA2 about the progress of our ongoing work item on the energy efficiency of 5G.

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

**S5-197383 Terms correction for 5G energy saving**

*Type: pCR For: Approval  
 28.310 v1.1.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-197614**.

**S5-197614 Terms correction for 5G energy saving**

*Type: pCR For: Approval  
 28.310 v1.1.0  
 Source: Ericsson France S.A.S*

(Replaces S5-197383)

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

**S5-197470 Differentiate centralized, distributed and hybrid ES solution approaches**

*Type: pCR For: Approval  
 28.310 v1.1.0  
 Source: Nokia*

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

**S5-197471 Add use case on Automatic Cell Clustering for Energy Saving**

*Type: pCR For: Approval  
 28.310 v1.1.0  
 Source: Nokia*

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

**S5-197842 Draft TS 28.310**

*Type: draft TS For: Approval  
 28.310 v1.2.0  
 Source: Orange*

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

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

**S5-197019 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 **revised to S5-197783**.

**S5-197783 Minutes of Network policy management for mobile networks based on NFV scenarios**

*Type: report For: -  
 Source: Rapporteur (China Mobile)*

(Replaces S5-197019)

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

**S5-197290 pCR 28.311 Add information Object Classes**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-196656)

**Decision:** The document was **revised to S5-197615**.

**S5-197615 pCR 28.311 Add information Object Classes**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197290)

**Decision:** The document was **revised to S5-197763**.

**S5-197763 pCR 28.311 Add information Object Classes**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197615)

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

**S5-197292 pCR 28.311 Add XML definition**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197618**.

**S5-197618 pCR 28.311 Add XML definition**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197292)

**Decision:** The document was **revised to S5-197764**.

**S5-197764 pCR 28.311 Add XML definition**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197618)

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

**S5-197294 pCR 28.311 Add SOAP Solutions Set**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197619**.

**S5-197619 pCR 28.311 Add SOAP Solutions Set**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197294)

**Decision:** The document was **revised to S5-197765**.

**S5-197765 pCR 28.311 Add SOAP Solutions Set**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197619)

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

**S5-197303 Revised WID on network policy management for mobile networks based on NFV scenarios**

*Type: WID revised For: (not specified)  
 Source: China Mobile Com. Corporation*

(Replaces S5-196834)

**Decision:** The document was **revised to S5-197616**.

**S5-197616 Revised WID on network policy management for mobile networks based on NFV scenarios**

*Type: WID revised For: -  
 Source: China Mobile Com. Corporation*

(Replaces S5-197303)

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

**S5-197305 Presentation of TS 28.311 for Information and approval to SA#86**

*Type: TS or TR cover For: (not specified)  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197620**.

**S5-197620 Presentation of TS 28.311 for Information and approval to SA#86**

*Type: TS or TR cover For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197305)

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

**S5-197347 pCR 28.311 Rewrite Interface definition**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

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

**S5-197371 pCR 28.311 Rewrite interface identification**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197617**.

**S5-197617 pCR 28.311 Rewrite interface identification**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197371)

**Decision:** The document was **revised to S5-197766**.

**S5-197766 pCR 28.311 Rewrite interface identification**

*Type: pCR For: Approval  
 28.311 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-197617)

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

**S5-197843 Draft TS 28.311**

*Type: draft TS For: Approval  
 28.311 v0.6.0  
 Source: China Mobile*

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

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

**S5-197020 Minutes of Intent driven management service for mobile networks**

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

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

**S5-197091 pCR 28.812 Add the relation between IDMS and SON**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-196835)

**Abstract:**

Resubmission of S5-196835 without change, S5-196835 has not been treated in the OAM close session in SA5#127 meeting

**Decision:** The document was **revised to S5-197607**.

**S5-197607 pCR 28.812 Add the relation between IDMS and SON**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197091)

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

**S5-197093 pCR 28.812 Add the potential requirements for existing scenarios**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197609**.

**S5-197609 pCR 28.812 Add the potential requirements for existing scenarios**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197093)

**Decision:** The document was **revised to S5-197767**.

**S5-197767 pCR 28.812 Add the potential requirements for existing scenarios**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197609)

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

**S5-197094 pCR 28.812 Add the potential requirements for intent lifecycle management**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197610**.

**S5-197610 pCR 28.812 Add the potential requirements for intent lifecycle management**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197094)

**Decision:** The document was **revised to S5-197768**.

**S5-197768 pCR 28.812 Add the potential requirements for intent lifecycle management**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197610)

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

**S5-197095 pCR 28.812 Update area-based management scenario**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197611**.

**S5-197611 pCR 28.812 Update area-based management scenario**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197095)

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

**S5-197096 pCR 28.812 Add potential solution for area based radio network deployment**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197612**.

**S5-197612 pCR 28.812 Add potential solution for area based radio network deployment**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

(Replaces S5-197096)

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

**S5-197097 pCR 28.812 Update clause 6.2 operation and notification for intent**

*Type: pCR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

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

**S5-197297 Rel-16 pCR 28.812 Solution for CSI deployment at the edge**

*Type: pCR For: Agreement  
 28.812 v0.7.0  
 Source: Samsung Electronics France SA*

(Replaces S5-196537)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

**Decision:** The document was **revised to S5-197608**.

**S5-197608 Rel-16 pCR 28.812 Solution for CSI deployment at the edge**

*Type: pCR For: Agreement  
 28.812 v0.7.0  
 Source: Samsung Electronics France SA*

(Replaces S5-197297)

**Decision:** The document was **revised to S5-197769**.

**S5-197769 Rel-16 pCR 28.812 Solution for CSI deployment at the edge**

*Type: pCR For: Agreement  
 28.812 v0.7.0  
 Source: Samsung Electronics France SA*

(Replaces S5-197608)

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

**S5-197844 Draft TR 28.812**

*Type: draft TR For: Approval  
 28.812 v0.9.0  
 Source: Huawei*

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

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

**S5-197021 Minutes of Enhancement of performance assurance for 5G networks including network slicing**

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

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

**S5-197043 Add definitions of PDCP end user throughput measurements**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0150 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

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

**S5-197565 Add definitions of PDCP end user throughput measurements**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0150 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

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

**S5-197060 Rel-16 CR 28.552 Add measurements related to NF service registration and update**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0151 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

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

**S5-197061 Rel-16 CR 28.552 Add measurements related to NF service discovery**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0152 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

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

**S5-197062 Rel-16 CR 28.552 Add measurements related to UE policy association**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0153 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

**Discussion:**

No comments.

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

**S5-197063 Rel-16 CR 28.552 Add measurements related to PFD management**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0154 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

**Discussion:**

No comments.

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

**S5-197064 Rel-16 CR 28.552 Add measurements related to QoS flow release in the untrusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0155 Cat: B (Rel-16)  
  
 Source: Intel Corporation SAS*

**Discussion:**

No comments.

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

**S5-197065 Rel-16 CR 28.552 Add measured object NRCellRelation to the HO related measurements**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0156 Cat: C (Rel-16)  
  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-197564**.

**S5-197564 Rel-16 CR 28.552 Add measured object NRCellRelation to the HO related measurements**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0156 rev 1 Cat: C (Rel-16)  
  
 Source: Intel Corporation SAS*

(Replaces S5-197065)

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

**S5-197144 Reply LS to SA5 on PDCP end user throughput measurements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1914089*

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

**S5-197155 Rel-16 CR TS 28.552 Adding measurement of packets out-of-order**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0157 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197600**.

**S5-197600 Rel-16 CR TS 28.552 Adding measurement of packets out-of-order**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0157 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197155)

**Decision:** The document was **revised to S5-197770**.

**S5-197770 Rel-16 CR TS 28.552 Adding measurement of packets out-of-order**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0157 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197600)

**Decision:** The document was **revised to S5-197826**.

**S5-197826 Rel-16 CR TS 28.552 Adding measurement of packets out-of-order**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0157 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197770)

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

**S5-197322 Rel-16 CR TS 28.552 Packet Drop Rate measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0158 Cat: B (Rel-16)  
  
 Source: Ericsson LM,Verizon*

**Decision:** The document was **revised to S5-197566**.

**S5-197566 Rel-16 CR TS 28.552 Packet Drop Rate measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0158 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM,,Verizon*

(Replaces S5-197322)

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

**S5-197323 Rel-16 CR TS 28.552 Packet Loss Rate measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0159 Cat: B (Rel-16)  
  
 Source: Ericsson LM,Verizon*

**Decision:** The document was **revised to S5-197567**.

**S5-197567 Rel-16 CR TS 28.552 Packet Loss Rate measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0159 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM,,Verizon*

(Replaces S5-197323)

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

**S5-197325 Rel-16 CR TS 28.552 PDCP Data Volume measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0160 Cat: B (Rel-16)  
  
 Source: Ericsson LM,Verizon*

**Decision:** The document was **revised to S5-197568**.

**S5-197568 Rel-16 CR TS 28.552 PDCP Data Volume measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0160 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM,Verizon*

(Replaces S5-197325)

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

**S5-197329 Rel-16 CR TS 28.552 UE Throughput measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0161 Cat: B (Rel-16)  
  
 Source: Ericsson LM,Verizon*

**Decision:** The document was **revised to S5-197569**.

**S5-197569 Rel-16 CR TS 28.552 UE Throughput measurements update**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0161 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM,Verizon*

(Replaces S5-197329)

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

**S5-197332 Add use case and definitions of UL user plane packet delay measurement from UE to UPF**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0162 Cat: B (Rel-16)  
  
 Source: ETRI*

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

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

**S5-197022 Minutes of Discovery of management services in 5G**

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

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

**S5-197160 Discussion about MnS instance discovery**

*Type: discussion For: Endorsement  
 Source: Huawei*

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

**S5-197161 Rel-16 CR TS 28.533 Get MnS instance URI**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0050 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197603**.

**S5-197603 Rel-16 CR TS 28.533 Get MnS instance URI**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0050 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197161)

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

**S5-197162 Rel-16 CR TS 28.532 Discover MnS instance**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0078 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197604**.

**S5-197604 Rel-16 CR TS 28.532 Discover MnS instance**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0078 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197162)

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

**S5-197163 Rel-16 CR TS 28.532 Add stage 2 and 3 for MnS discovery service**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0079 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-197398 Rel-16 CR 32.533 Introduce a MnS profile**

*Type: CR For: Approval  
 28.533 v16.1.0 CR-0051 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197606**.

**S5-197606 Rel-16 CR 32.533 Introduce a MnS profile**

*Type: CR For: Approval  
 28.533 v16.1.0 CR-0051 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197398)

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

**S5-197399 Rel-16 CR 32.533 Add MnS discovery**

*Type: CR For: Approval  
 28.533 v16.1.0 CR-0052 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197605 Rel-16 CR 32.533 Add MnS discovery**

*Type: CR For: Approval  
 28.533 v16.1.0 CR-0052 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197400 TD Using feature identifiers in MnS profiles**

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

**Decision:** The document was **revised to S5-197746**.

**S5-197746 TD Using feature identifiers in MnS profiles**

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

(Replaces S5-197400)

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

#### 6.4.7 NRM enhancements

**S5-197023 Minutes of NRM enhancements**

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

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

**S5-197089 Rel-16 CR TS 28.541 Correct the parameter sNSSAIList**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0163 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196221)

**Abstract:**

Revision of S5-196221 which is not pursued in SA5#127 meeting and needs more offline discussion

**Decision:** The document was **revised to S5-197634**.

**S5-197634 Rel-16 CR TS 28.541 Correct the parameter sNSSAIList**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0163 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197089)

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

**S5-197090 Rel-16 CR TS 28.541 Update on RRMPolicy**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0165 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196223)

**Abstract:**

Revision of S5-196223 which is not pursued in SA5#127 meeting and needs more offline discussion

**Discussion:**

Merged into S5-197638.

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

**S5-197121 Rel-16 CR TS 28.540 Update the requirements for remote interference management**

*Type: CR For: Agreement  
 28.540 v16.0.0 CR-0006 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-197122 Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0201 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-197123 Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0202 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197644**.

**S5-197644 Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0202 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197123)

**Decision:** The document was **revised to S5-197773**.

**S5-197773 Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0202 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197644)

**Decision:** The document was **revised to S5-197827**.

**S5-197827 Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0202 rev 3 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197773)

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

**S5-197136 Resubmitted LS from RAN3 Reply on radio resource management policy**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-194550*

**Discussion:**

SA5 decided to use S5-197637 to reply S5-197136 and S5-197137.

**Decision:** The document was **replied to in S5-197637**.

**S5-197637 Reply to: Resubmitted LS from RAN3 Reply on radio resource management policy**

*Type: LS out For: approval  
 to RAN3,RAN2  
 Source: Ericsson*

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

**S5-197137 Resubmitted LS from RAN2 to SA5 on radio resource management policy**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1911791*

**Discussion:**

SA5 decided to use S5-197637 to reply S5-197136 and S5-197137.

**Decision:** The document was **replied to in S5-197637**.

**S5-197168 Update SEPP Stage 2 definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0180 rev 3 Cat: F (Rel-16)  
  
 Source: Nokia Korea*

(Replaces S5-196843)

**Discussion:**

Email approval with same package of S5-197321.

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

**S5-197169 Update definition of attributes related to RRMPolicy**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0206 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197639**.

**S5-197639 Update definition of attributes related to RRMPolicy**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0206 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197169)

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

**S5-197170 Update definition of attributes related to RRMPolicy**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0207 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

merged into S5-197638.

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

**S5-197236 YANG\_Netconf CM Notifications**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0070 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces S5-196449)

**Abstract:**

The YANG/Netconf solution set needs a mapping for the notifications : notifyMOICreation, notifyMOIDeletion, notifyMOIAttributeValueChanges.

A notification mapping is proposed using the principles and methodology followed by Netconf and YANG, based on

**Decision:** The document was **revised to S5-197717**.

**S5-197717 YANG\_Netconf CM Notifications**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0070 rev 5 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.,Telecom Italia, Orange, China Mobile*

(Replaces S5-197236)

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

**S5-197247 YANG\_Netconf Operations**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0070 rev 3 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces S5-196791)

**Abstract:**

Provide a mapping of the Stage 2 Generic provisioning management service operations for the YANG/Netconf solution set. General industry practice is to manipulate YANG based data is by using the Netconf protocol.

We need to provide a standard Netconf base

**Decision:** The document was **revised to S5-197718**.

**S5-197718 YANG\_Netconf Operations**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0070 rev 4 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A., Huawei, China Mobile, Telecom Italia, Orange*

(Replaces S5-197247)

**Discussion:**

Nokia object.

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

**S5-197253 Additions to YANG style Guide**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0004 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

**Abstract:**

Provide a better description of the required model checks

Provide rules about module metadata

Provide rules about how to document modules in Technical specifications.

Prohibit usage of statements with default meaning, and deviations in 3GPP documents

**Decision:** The document was **revised to S5-197719**.

**S5-197719 Additions to YANG style Guide**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0004 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces S5-197253)

**Decision:** The document was **revised to S5-197774**.

**S5-197774 Additions to YANG style Guide**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0004 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces S5-197719)

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

**S5-197262 Add support of Configurable FM**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0050 rev 2 Cat: C (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-196598)

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

**S5-197264 MF-ME relation with VNF**

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

**Decision:** The document was **revised to S5-197645**.

**S5-197645 MF-ME relation with VNF**

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

(Replaces S5-197264)

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

**S5-197333 Rel-16 CR TS 28.540 Add requirement on NR active antenna system (AAS) configuration**

*Type: CR For: Approval  
 28.540 v16.0.0 CR-0007 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-197598**.

**S5-197598 Rel-16 CR TS 28.540 Add requirement on NR active antenna system (AAS) configuration**

*Type: CR For: Approval  
 28.540 v16.0.0 CR-0007 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM, Huawei*

(Replaces S5-197333)

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

**S5-197334 Rel-16 CR TS 28.541 Add NRM Info Model definitions for active antenna systems (AAS)**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0216 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

merged with S5-190463 into S5-197642

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

**S5-197386 Add heartbeat NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0061 Cat: B (Rel-16)  
  
 Source: Ericsson Inc., Nokia, Nokia Shanghai Bell, Orange*

**Discussion:**

S5-197386 merged with S5-197401 into S5-197646

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

**S5-197401 Rel-16 CR 28.622 Add heartbeat control NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0062 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell. Orange*

**Discussion:**

S5-197386 merged with S5-197401 into S5-197646

**Decision:** The document was **revised to S5-197646**.

**S5-197646 Rel-16 CR 28.622 Add heartbeat control NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0062 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell. Orange*

(Replaces S5-197401)

**Decision:** The document was **revised to S5-197828**.

**S5-197828 Rel-16 CR 28.622 Add heartbeat control NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0062 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell. Orange*

(Replaces S5-197646)

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

**S5-197402 Rel-16 CR 28.622 Add subscription control NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0063 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Orange*

**Decision:** The document was **revised to S5-197649**.

**S5-197649 Rel-16 CR 28.622 Add subscription control NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0063 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Orange*

(Replaces S5-197402)

**Decision:** The document was **revised to S5-197829**.

**S5-197829 Rel-16 CR 28.622 Add subscription control NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0063 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Orange*

(Replaces S5-197649)

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

**S5-197403 Rel-16 CR 28.541 Add NRM fragment for resource allocation and deallocation**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0217 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197635 Rel-16 CR 28.541 Add NRM fragment for resource allocation and deallocation**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0217 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197405 Rel-16 CR 28.531 Update allocation and deallocation procedures**

*Type: CR For: Approval  
 28.531 v16.3.0 CR-0037 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197636 Rel-16 CR 28.531 Update allocation and deallocation procedures**

*Type: CR For: Approval  
 28.531 v16.3.0 CR-0037 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197419 Discussion paper around RRM Policy**

*Type: discussion For: Endorsement  
 28.541 v..  
 Source: Ericsson LM*

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

**S5-197427 Rel-16 CR 28.541 Update of RRM Policy**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0179 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-196447)

**Decision:** The document was **revised to S5-197638**.

**S5-197638 Rel-16 CR 28.541 Update of RRM Policy**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0179 rev 2 Cat: C (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-197427)

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

**S5-197433 Rel-16 CR TS 28.541 Stage 3 for Add NRM Info Model definitions for active antenna systems (AAS)**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0224 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-197434 Rel-16 CR TS 28.541 Stage 3 for Add NRM Info Model definitions for active antenna systems (AAS)**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0225 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

S5-197434 merged into S5-197643.

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

**S5-197461 Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0051 rev 13 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, Intel, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange*

(Replaces S5-196845)

**Decision:** The document was **revised to S5-197640**.

**S5-197640 Rel-15 CR TS 28.541 Stages 2 Add NRM Info Model definitions for beam managed object classes**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0051 rev 14 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, Intel, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange*

(Replaces S5-197461)

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

**S5-197462 Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0193 rev 2 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange*

(Replaces S5-196489)

**Abstract:**

Stage 3 associated with CA Stage 2 of "Add NRM Info Model definitions for beam managed object classes"

**Decision:** The document was **revised to S5-197641**.

**S5-197641 Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0193 rev 3 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange*

(Replaces S5-197462)

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

**S5-197463 Rel-16 CR TS 28.541 Stages 2 and 3 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0226 Cat: F (Rel-16)  
  
 Source: Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange*

**Abstract:**

Brief description of document content.

**Decision:** The document was **revised to S5-197642**.

**S5-197642 Rel-16 CR TS 28.541 Stages 2 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0226 rev 1 Cat: A (Rel-16)  
  
 Source: Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange, Huawei*

(Replaces S5-197463)

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

**S5-197643 Rel-16 CR TS 28.541 Stages 3 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror**

*Type: CR For: discussion  
 28.541 v16.2.0 CR-0227 Cat: A (Rel-16)  
  
 Source: Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange, Huawei*

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

**S5-197647 Rel-16 CR 28.623 Add stage 3 for heartbeat control NRM fragment**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0039 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Orange*

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

**S5-197648 Rel-16 CR 28.622 Add stage 3 for subscription control NRM fragment**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0040 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Orange*

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

**S5-197650 LS on update of touchpoints**

*Type: LS out For: Approval  
 to ETSI ISG NFV  
 Source: Nokia*

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

#### 6.4.8 Trace Management in the context of Services Based Management Architecture

**S5-197024 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**.

**S5-197238 Rel-16 CR TS 32.421 terminology clean-up**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0088 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

**Decision:** The document was **revised to S5-197570**.

**S5-197570 Rel-16 CR TS 32.421 terminology clean-up**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0088 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

(Replaces S5-197238)

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

**S5-197241 Rel-16 CR TS 32.422 new references**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0302 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

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

**S5-197243 Rel-16 CR TS 32.422 addition of general management activation mechanisms for 5GS**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0303 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

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

**S5-197245 Rel-16 CR TS addition of general signalling activation mechanisms for 5GS**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0304 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

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

**S5-197248 Rel-16 CR TS 32.422 Update 5GS deactivation mechanisms**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0305 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

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

**S5-197252 Rel-16 CR TS 32.422 update trace recording session start-stop**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0306 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

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

#### 6.4.9 Integration of ONAP and 3GPP 5G management framework

**S5-197025 Minutes of Integration of ONAP and 3GPP 5G management framework**

*Type: report For: (not specified)  
 Source: Rapporteur (AT&T))*

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

**S5-197044 Rel-16 CR 28.532 Repair broken links in References**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0072 rev 1 Cat: F (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-196539)

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

**S5-197052 Rel-16 CR 28.532 Introduce Heartbeat MnS**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0073 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

**Decision:** The document was **revised to S5-197597**.

**S5-197597 Rel-16 CR 28.532 Introduce Heartbeat MnS**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0073 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-197052)

**Decision:** The document was **revised to S5-197775**.

**S5-197775 Rel-16 CR 28.532 Introduce Heartbeat MnS**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0073 rev 2 Cat: B (Rel-16)  
  
 Source: AT&T, Orange*

(Replaces S5-197597)

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

**S5-197098 Discussion on potential ways for integration of ONAP and 3GPP MnS**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-197674**.

**S5-197674 Discussion on potential ways for integration of ONAP and 3GPP MnS**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-197098)

**Decision:** The document was **revised to S5-197776**.

**S5-197776 Discussion on potential ways for integration of ONAP and 3GPP MnS**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-197674)

**Decision:** The document was **revised to S5-197830**.

**S5-197830 Discussion on potential ways for integration of ONAP and 3GPP MnS**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-197776)

**Discussion:**

SA5 get agreement to endorse page 9 and page 10 of this discussion paper.

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

**S5-197191 Rel-16 CR 28.532 RESTful PM file-based notifications for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0080 Cat: B (Rel-16)  
  
 Source: AT&T, Ericsson, Orange*

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

**S5-197255 Discussion on options for integrating 3GPP fault notifications into ONAP VES**

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

**Discussion:**

Merged into S5-197776.

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

**S5-197426 Draft management services TS 28aaa-000**

*Type: other For: (not specified)  
 Source: AT&T GNS Belgium SPRL*

**Decision:** The document was **revised to S5-197599**.

**S5-197599 Draft management services TS 28aaa-000**

*Type: other For: -  
 Source: AT&T GNS Belgium SPRL*

(Replaces S5-197426)

**Decision:** The document was **revised to S5-197778**.

**S5-197778 Draft management services TS 28aaa-000**

*Type: other For: Approval  
 Source: AT&T GNS Belgium SPRL*

(Replaces S5-197599)

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

**S5-197777 LS to ONAP on 3GPP MnS integration with VES**

*Type: LS out For: Approval  
 to ONAP DCAE Project  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197831**.

**S5-197831 LS to ONAP on 3GPP MnS integration with VES**

*Type: LS out For: Approval  
 to ONAP DCAE Project, ETSI ISG ZSM  
 Source: Ericsson*

(Replaces S5-197777)

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

#### 6.4.10 Closed loop SLS Assurance

**S5-197026 Minutes of Closed loop SLS Assurance**

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

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

**S5-197295 Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0045 rev 2 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196850)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

S5-196850 Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance

**Decision:** The document was **revised to S5-197580**.

**S5-197580 Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0045 rev 3 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-197295)

**Decision:** The document was **revised to S5-197779**.

**S5-197779 Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0045 rev 4 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-197580)

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

**S5-197832 Rel-17 pCR TR 28.809 Add management interaction with NWDAF**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-197304 pCR TS 28.535 Add concepts related to close loop assurance**

*Type: pCR For: (not specified)  
 28.535 v0.1.0  
 Source: HiSilicon Technologies Co. Ltd*

**Discussion:**

merged into S5-197583

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

**S5-197581 pCR TS 28.535 Add concepts related to close loop assurance**

*Type: pCR For: -  
 28.535 v0.1.0  
 Source: HiSilicon Technologies Co. Ltd*

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

**S5-197309 pCR 28.535 Interaction with core network for service assurance**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197584**.

**S5-197584 pCR 28.535 Interaction with core network for service assurance**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

(Replaces S5-197309)

**Decision:** The document was **revised to S5-197786**.

**S5-197786 pCR 28.535 Interaction with core network for service assurance**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

(Replaces S5-197584)

**Decision:** The document was **revised to S5-197833**.

**S5-197833 pCR 28.535 Interaction with core network for service assurance**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

(Replaces S5-197786)

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

**S5-197310 pCR 28.535 use case for obtaining resource requirements for a communication service**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197585**.

**S5-197585 pCR 28.535 use case for obtaining resource requirements for a communication service**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

(Replaces S5-197310)

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

**S5-197311 pCR 28.535 Add analytics scenario introduction**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

(Replaces S5-196267)

**Abstract:**

resubmit S5-196267

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

**S5-197747 pCR 28.535 Add analytics scenario introduction**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Huawei*

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

**S5-197328 pCR 28.535 Add UC on analytical data enablement**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Samsung Electronics GmbH*

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

**S5-197748 pCR 28.535 Add UC on analytical data enablement**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: Samsung Electronics GmbH*

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

**S5-197406 Add description of communication service lifecycle preparation phase**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: CCSA*

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

**S5-197430 Add description of communication service lifecycle preparation phase**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-197583**.

**S5-197583 Add description of communication service lifecycle preparation phase**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-197430)

**Decision:** The document was **revised to S5-197834**.

**S5-197834 Add description of communication service lifecycle preparation phase**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-197583)

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

**S5-197448 Discussion paper on CSA loop entities**

*Type: discussion For: Endorsement  
 28.535 v..  
 Source: L.M. Ericsson Limited*

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

**S5-197651 Discussion paper on CSA loop entities**

*Type: discussion For: Endorsement  
 28.535 v..  
 Source: L.M. Ericsson Limited*

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

**S5-197449 pCR 28.535 Service quality assurance and optimization**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

**Decision:** The document was **revised to S5-197749**.

**S5-197749 pCR 28.535 Service quality assurance and optimization**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

(Replaces S5-197449)

**Decision:** The document was **revised to S5-197787**.

**S5-197787 pCR 28.535 Service quality assurance and optimization**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

(Replaces S5-197749)

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

**S5-197450 pCR 28.535 Add use case and requirements for CSA PM services - overview**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

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

**S5-197451 pCR 28.535 Add use case and requirements for CS assurance measurement job control service**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

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

**S5-197452 pCR 28.535 Add use case and requirements for CS assurance data reporting service**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

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

**S5-197453 pCR 28.535 Add text for clause 4.2 Management control loops**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

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

**S5-197455 pCR 28.536 Add Overview of interfaces**

*Type: pCR For: Approval  
 28.536 v0.1.0  
 Source: L.M. Ericsson Limited*

**Decision:** The document was **revised to S5-197653**.

**S5-197653 pCR 28.536 Add Overview of interfaces**

*Type: pCR For: Approval  
 28.536 v0.1.0  
 Source: L.M. Ericsson Limited*

(Replaces S5-197455)

**Decision:** The document was **revised to S5-197788**.

**S5-197788 pCR 28.536 Add Overview of interfaces**

*Type: pCR For: Approval  
 28.536 v0.1.0  
 Source: L.M. Ericsson Limited*

(Replaces S5-197653)

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

**S5-197477 pCR 28.535 Communication service assurance scenario**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

**Abstract:**

This contribution is identical to contribution S5-196495 which was not treated at #127 due to lack of time

**Decision:** The document was **revised to S5-197582**.

**S5-197582 pCR 28.535 Communication service assurance scenario**

*Type: pCR For: Approval  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

(Replaces S5-197477)

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

**S5-197478 Presentation of TS 28.535 for information to SA#86**

*Type: TS or TR cover For: Information  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

**Decision:** The document was **revised to S5-197789**.

**S5-197789 Presentation of TS 28.535 for information to SA#86**

*Type: TS or TR cover For: Information  
 28.535 v0.1.0  
 Source: L.M. Ericsson Limited*

(Replaces S5-197478)

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

**S5-197845 Draft TS 28.535**

*Type: draft TS For: Approval  
 28.535 v0.2.0  
 Source: Ericsson*

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

**S5-197846 Draft TS 28.536**

*Type: draft TS For: Approval  
 28.536 v0.2.0  
 Source: Ericsson*

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

#### 6.4.11 Streaming trace reporting

**S5-197027 Minutes of Streaming trace reporting**

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

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

**S5-197254 Rel-16 CR TS 32.422 update trace configuration parameters**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0307 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

**Decision:** The document was **revised to S5-197587**.

**S5-197587 Rel-16 CR TS 32.422 update trace configuration parameters**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0307 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

(Replaces S5-197254)

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

**S5-197256 Rel-16 CR TS 32.422 add streaming trace reporting description**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0308 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

**Decision:** The document was **revised to S5-197588**.

**S5-197588 Rel-16 CR TS 32.422 add streaming trace reporting description**

*Type: CR For: Approval  
 32.422 v15.2.0 CR-0308 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Japan*

(Replaces S5-197256)

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

#### 6.4.12 KPI reporting

**S5-197028 Minutes of KPI reporting**

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

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

**S5-197240 Rel-16 CR TS 28.550 Add UC and requirements for KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0041 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

**Abstract:**

Re-submission of S5-196853 which has not been treated in sa5#127 meeting

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

**S5-197278 Rel-16 CR TS 28.550 Enhance performance data report related operations**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0042 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

**Decision:** The document was **revised to S5-197572**.

**S5-197572 Rel-16 CR TS 28.550 Enhance performance data report related operations**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0042 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

(Replaces S5-197278)

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

**S5-197279 Rel-16 CR TS 28.622 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.622 v16.1.1 CR-0060 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

**Decision:** The document was **revised to S5-197573**.

**S5-197573 Rel-16 CR TS 28.622 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.622 v16.1.1 CR-0060 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

(Replaces S5-197279)

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

**S5-197280 Rel-16 CR TS 28.623 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0038 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

**Decision:** The document was **revised to S5-197574**.

**S5-197574 Rel-16 CR TS 28.623 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0038 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

(Replaces S5-197280)

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

**S5-197286 Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0034 rev 3 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

(Replaces S5-196853)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

**Decision:** The document was **revised to S5-197571**.

**S5-197571 Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0034 rev 4 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

(Replaces S5-197286)

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

**S5-197296 Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554**

*Type: CR For: Approval  
 28.554 v16.2.0 CR-0036 Cat: F (Rel-16)  
  
 Source: Huawei, ZTE, China Telecom*

**Decision:** The document was **revised to S5-197575**.

**S5-197575 Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554**

*Type: CR For: Approval  
 28.554 v16.2.0 CR-0036 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, ZTE, China Telecom*

(Replaces S5-197296)

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

#### 6.4.13 Self-Organizing Networks (SON) for 5G networks

**S5-197029 Minutes of Self-Organizing Networks (SON) for 5G networks**

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

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

**S5-197069 pCR 28.313 D-SON PCI configuration use case**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197555**.

**S5-197555 pCR 28.313 D-SON PCI configuration use case**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197069)

**Decision:** The document was **revised to S5-197790**.

**S5-197790 pCR 28.313 D-SON PCI configuration use case**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd, Huawei*

(Replaces S5-197555)

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

**S5-197070 pCR 28.313 C-SON PCI configuration use case**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd, Huawei*

**Decision:** The document was **revised to S5-197593**.

**S5-197593 pCR 28.313 C-SON PCI configuration use case**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197070)

**Decision:** The document was **revised to S5-197791**.

**S5-197791 pCR 28.313 C-SON PCI configuration use case**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197593)

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

**S5-197071 pCR 28.313 D-SON PCI configuration procedure**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197590**.

**S5-197590 pCR 28.313 D-SON PCI configuration procedure**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197071)

**Decision:** The document was **revised to S5-197792**.

**S5-197792 pCR 28.313 D-SON PCI configuration procedure**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197590)

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

**S5-197072 pCR 28.313 C-SON PCI configuration procedure**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197594**.

**S5-197594 pCR 28.313 C-SON PCI configuration procedure**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197072)

**Decision:** The document was **revised to S5-197793**.

**S5-197793 pCR 28.313 C-SON PCI configuration procedure**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197594)

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

**S5-197073 pCR 28.313 D-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197592**.

**S5-197592 pCR 28.313 D-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197073)

**Decision:** The document was **revised to S5-197794**.

**S5-197794 pCR 28.313 D-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197592)

**Decision:** The document was **revised to S5-197835**.

**S5-197835 pCR 28.313 D-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197794)

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

**S5-197074 pCR 28.313 C-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197595**.

**S5-197595 pCR 28.313 C-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197074)

**Decision:** The document was **revised to S5-197795**.

**S5-197795 pCR 28.313 C-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197595)

**Decision:** The document was **revised to S5-197836**.

**S5-197836 pCR 28.313 C-SON PCI configuration information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197795)

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

**S5-197075 pCR 28.313 LBO use cases**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197596**.

**S5-197596 pCR 28.313 LBO use cases**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197075)

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

**S5-197076 pCR 28.313 LBO procedures**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197750**.

**S5-197750 pCR 28.313 LBO procedures**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197076)

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

**S5-197077 pCR 28.313 LBO information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-197751**.

**S5-197751 pCR 28.313 LBO information**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-197077)

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

**S5-197092 pCR 28.313 Add usecase and requirements for establishment of new NF in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei,China Telecommunications*

(Replaces S5-196362)

**Abstract:**

Resubmission of S5-196362 which has not be treated in SA5#127 meeting

**Decision:** The document was **revised to S5-197551**.

**S5-197551 pCR 28.313 Add usecase and requirements for establishment of new NF in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei,China Telecommunications*

(Replaces S5-197092)

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

**S5-197099 pCR 28.313 Add procedures for establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei,China Telecommunications*

**Decision:** The document was **revised to S5-197586**.

**S5-197586 pCR 28.313 Add procedures for establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei,China Telecommunications*

(Replaces S5-197099)

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

**S5-197125 pCR 28.313 Add procedures for establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

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

**S5-197126 pCR 28.313 Add use case for NCR remove blacklisting and whitelisting**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

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

**S5-197127 pCR 28.313 Update the requirements for ANR management in NG-RAN**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197552**.

**S5-197552 pCR 28.313 Update the requirements for ANR management in NG-RAN**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

(Replaces S5-197127)

**Decision:** The document was **revised to S5-197818**.

**S5-197818 pCR 28.313 Update the requirements for ANR management in NG-RAN**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

(Replaces S5-197552)

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

**S5-197128 pCR 28.313 Add solutions for ANR management**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197553**.

**S5-197553 pCR 28.313 Add solutions for ANR management**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

(Replaces S5-197128)

**Decision:** The document was **revised to S5-197819**.

**S5-197819 pCR 28.313 Add solutions for ANR management**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

(Replaces S5-197553)

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

**S5-197129 pCR 28.313 Use case for Centralized PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

**Discussion:**

merged into S5-197791

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

**S5-197130 pCR 28.313 Requirements for Centralized PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

**Discussion:**

merged into S5-197791

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

**S5-197131 pCR TS 28.313 Solutions for centralized PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

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

**S5-197132 pCR 28.313 Use case for distributed PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

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

**S5-197556 pCR 28.313 Use case for distributed PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

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

**S5-197133 pCR 28.313 Requirements for distributed PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197591**.

**S5-197591 pCR 28.313 Requirements for distributed PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

(Replaces S5-197133)

**Discussion:**

merged into S5-197790

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

**S5-197134 pCR TS 28.313 Solutions for distributed PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: Huawei*

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

**S5-197244 pCR 28.313 Add Concept for Establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: China Telecommunications, Huawei*

**Abstract:**

Re-submission of S5-196400 which has not been treated in sa5#127 meeting.

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

**S5-197263 pCR 28.313 Add use case and requirements for cross-slice network resource optimization**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: KPN N.V.*

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

**S5-197293 pCR 28.313 Add Concept for Establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: China Telecommunications, Huawei*

(Replaces S5-196400)

**Abstract:**

Re-submission of S5-196400 which has not been treated in sa5#127 meeting.

**Decision:** The document was **revised to S5-197602**.

**S5-197602 pCR 28.313 Add Concept for Establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: China Telecommunications, Huawei*

(Replaces S5-197293)

**Decision:** The document was **revised to S5-197796**.

**S5-197796 pCR 28.313 Add Concept for Establishment of new NE in network**

*Type: pCR For: Approval  
 28.313 v0.1.0  
 Source: China Telecommunications, Huawei*

(Replaces S5-197602)

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

**S5-197421 CR 28.541 Management of NR ANR, Stage 2**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0222 Cat: B (Rel-16)  
  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-197554**.

**S5-197554 CR 28.541 Management of NR ANR, Stage 2**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0222 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-197421)

**Decision:** The document was **revised to S5-197837**.

**S5-197837 CR 28.541 Management of NR ANR, Stage 2**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0222 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-197554)

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

**S5-197422 CR 28.541 Management of NR ANR, Stage 3**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0223 Cat: B (Rel-16)  
  
 Source: Ericsson France S.A.S*

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

**S5-197727 Rel-16 CR 28.552 Add use case of monitoring of PCI to detect PCI collision or confusion**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0163 Cat: B (Rel-16)  
  
 Source: Intel*

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

**S5-197847 Draft TS 28.313**

*Type: draft TS For: Approval  
 28.313 v0.2.0  
 Source: Intel*

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

#### 6.4.14 Enhancement of 3GPP management system for multiple tenant environment support

**S5-197030 Minutes of Enhancement of 3GPP management system for multiple tenant environment support**

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

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

**S5-197164 Discussion paper about multi-tenancy use cases in 3GPP management system**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-197576**.

**S5-197576 Discussion paper about multi-tenancy use cases in 3GPP management system**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-197164)

**Decision:** The document was **revised to S5-197797**.

**S5-197797 Discussion paper about multi-tenancy use cases in 3GPP management system**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-197576)

**Decision:** The document was **revised to S5-197841**.

**S5-197841 Discussion paper about multi-tenancy use cases in 3GPP management system**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-197797)

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

**S5-197165 Rel-16 CR TS 28.541 Add tenant information to support multiple tenants environment**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0205 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197577**.

**S5-197577 Rel-16 CR TS 28.541 Add tenant information to support multiple tenants environment**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0205 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197165)

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

**S5-197166 Rel-16 CR TS 28.545 Enhance fault management service for tenant support**

*Type: CR For: Agreement  
 28.545 v15.1.0 CR-0003 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-197167 Rel-16 CR TS 28.550 Enhance performance management service for tenant support**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0040 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-197320 TD tenant information to support multi-tenancy environment**

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

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

**S5-197578 TD tenant information to support multi-tenancy environment**

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

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

#### 6.4.15 Management Aspects of 5G Service-Level Agreement

**S5-197031 Minutes of Management Aspects of 5G Service-Level Agreement**

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

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

**S5-197100 Rel-16 CR TS 28.541 Update on slice model**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0177 rev 2 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

(Replaces S5-196642)

**Abstract:**

Re-submission of agreed CR (S5-196642) with one non-tech revision (just removing one obsolete attribute name).

**Decision:** The document was **revised to S5-197621**.

**S5-197621 Rel-16 CR TS 28.541 Update on slice model**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0177 rev 3 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

(Replaces S5-197100)

**Discussion:**

Huawei: there is a CR package (CR 0177, CR0198 and CR 0199) for TS 28.541 for stage 2 and stage 3. These CRs need to be approved or noted together.

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

**S5-197101 Rel-16 CR TS 28.541 Update XML definitions of ServiceProfile NRM**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0198 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia, Samsung, Huawei support that next meeting could be one week and a half.

Need offline discussion.

**Decision:** The document was **revised to S5-197589**.

**S5-197589 Rel-16 CR TS 28.541 Update XML definitions of ServiceProfile NRM**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0198 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

(Replaces S5-197101)

**Discussion:**

Huawei: there is a CR package (CR 0177, CR0198 and CR 0199) for TS 28.541 for stage 2 and stage 3. These CRs need to be approved or noted together.

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

**S5-197102 Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0199 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197622**.

**S5-197622 Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0199 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

(Replaces S5-197102)

**Discussion:**

Huawei: there is a CR package (CR 0177, CR0198 and CR 0199) for TS 28.541 for stage 2 and stage 3. These CRs need to be approved or noted together.

**Decision:** The document was **revised to S5-197798**.

**S5-197798 Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0199 rev 2 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

(Replaces S5-197622)

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

**S5-197152 Add attribute to describe different types of isolation for network slice**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0203 Cat: B (Rel-16)  
  
 Source: China Mobile*

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

**S5-197153 Add attributes for network slice supports IMS and SSC mode**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0204 Cat: B (Rel-16)  
  
 Source: China Mobile*

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

**S5-197270 Add attribute properties for network slice supports IMS and SSC mode**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0208 Cat: B (Rel-16)  
  
 Source: China Mobile*

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

**S5-197271 Add attribute to describe different types of isolation for network slice**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0209 Cat: B (Rel-16)  
  
 Source: China Mobile*

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

**S5-197272 Add requirements of network slicing management for creation of a network slice instance or network slice subnet instance according to the template**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0014 Cat: B (Rel-16)  
  
 Source: China Mobile*

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

**S5-197273 Add requirements of network slicing management for activation or deactivation of a communication service supported in the network slice instance**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0015 Cat: B (Rel-16)  
  
 Source: China Mobile*

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

**S5-197283 Add attribute properties for network slice supports IMS and SSC mode**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0210 Cat: B (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-197474**.

**S5-197284 Add attribute properties for attribute isolationLevel,physicalIsolation and logicalIsolation**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0211 Cat: B (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-197475**.

**S5-197306 Living document of review of GSMA GST SA5#128**

*Type: other For: Approval  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-197629**.

**S5-197629 Living document of review of GSMA GST SA5#128**

*Type: other For: Approval  
 Source: Huawei, China Mobile*

(Replaces S5-197306)

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

**S5-197307 LS out on GSMA GST**

*Type: LS out For: Approval  
 to 3GPP SA2, RAN3, IETF, cc 3GPP SA, SA1, SA6, RAN2, GSMA 5GJA, ETSI ISG ZSM  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-197630**.

**S5-197630 LS out on GSMA GST**

*Type: LS out For: Approval  
 to 3GPP SA2, RAN3, IETF, cc 3GPP SA, SA1, SA6, RAN2, GSMA 5GJA, ETSI ISG ZSM  
 Source: Huawei, China Mobile*

(Replaces S5-197307)

**Decision:** The document was **revised to S5-197802**.

**S5-197802 LS out on GSMA GST**

*Type: LS out For: Approval  
 to SA2, RAN3, IETF, cc SA, SA1, SA6, RAN2, GSMA 5GJA, ETSI ISG ZSM  
 Source: SA5*

(Replaces S5-197630)

**Decision:** The document was **revised to S5-197853**.

**S5-197853 LS out on GSMA GST**

*Type: LS out For: Approval  
 to SA2, RAN3, IETF, cc SA, SA1, SA6, RAN2, GSMA 5GJA, ETSI ISG ZSM  
 Source: China Mobile*

(Replaces S5-197802)

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

**S5-197396 WI\_Exception\_Management Aspects of 5G Service-Level Agreement**

*Type: WI exception request For: Approval  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-197633**.

**S5-197633 WI\_Exception\_Management Aspects of 5G Service-Level Agreement**

*Type: WI exception request For: Approval  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-197396)

**Decision:** The document was **revised to S5-197823**.

**S5-197823 WI\_revised\_Management Aspects of 5G Service-Level Agreement**

*Type: WID revised For: Approval  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-197633)

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

**S5-197626 Add Automatic CSI to NSI mapping use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-197404)

**Discussion:**

WI change to MA5SLA.

**Decision:** The document was **revised to S5-197803**.

**S5-197803 Add Automatic CSI to NSI mapping use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-197626)

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

**S5-197407 Modification to the existed provisioning procedure after considering SLA requirements**

*Type: CR For: Approval  
 28.531 v16.3.0 CR-0038 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co*

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

**S5-197632 Discussion of Modification to the existed provisioning procedure after considering**

*Type: discussion For: Endorsement  
 Source: China Mobile E-Commerce Co*

**Discussion:**

CMCC revised the CR to Discussion paper without informing MCC, the original CR is noted, the revision Tdoc number as a new number for discussion paper.

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

**S5-197410 Add attribute properties for isolationLevelCN, isolationLevelTN and isolationLevelAN**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0218 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co*

**Discussion:**

S5-197410 and S5-197411 merged into S5-197623

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

**S5-197411 Add attribute to describe different types of isolation for network slice**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0219 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co*

**Discussion:**

S5-197410 and S5-197411 merged into S5-197623

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

**S5-197623 Discussion of isolation levels definition in SA5**

*Type: discussion For: Endorsement  
 Source: China Mobile, China Southern Power Grid Co. , Huawei*

**Discussion:**

CMCC revised the CR to Discussion paper without informing MCC, the original CR is noted, the revision Tdoc number as a new number for discussion paper.

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

**S5-197412 Add attribute property of coverage type**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0220 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co*

**Discussion:**

S5-197412 and S5-197414 merged into S5-197624

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

**S5-197414 Add attribute to describe different coverage types of network slice**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0221 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co*

**Discussion:**

S5-197412 and S5-197414 merged into S5-197624

**Decision:** The document was **revised to S5-197621**.

**S5-197624 Add attribute to describe different coverage types of network slice**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0221 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co*

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

**S5-197456 TD R16 Combinations of GST attributes**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197625**.

**S5-197625 TD R16 Combinations of GST attributes**

*Type: discussion For: Endorsement  
 Source: Ericsson*

(Replaces S5-197456)

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

**S5-197474 Add attribute properties for network slice supports IMS and SSC mode**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0210 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197283)

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

**S5-197475 Add attribute properties for attribute isolationLevel,physicalIsolation and logicalIsolation**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0211 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197284)

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

#### 6.4.16 Network policy management for 5G mobile networks based on NFV scenarios (preliminary work before SA approval)

**S5-197032 Minutes of Network policy management for 5G mobile networks based on NFV scenarios (preliminary work before SA approval)**

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

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

#### 6.4.17 Management of MDT in 5G (preliminary work before SA approval)

**S5-197033 Minutes of Management of MDT in 5G (preliminary work before SA approval)**

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

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

**S5-197438 New structure for 5G MDT requirements**

*Type: other For: Approval  
 32.421 v..  
 Source: Ericsson India Private Limited*

**Discussion:**

No CR number, the type of Tdoc is incorrect. Revised to S5-197705 to fix this issue.

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

**S5-197705 Update MDT requirement to include support of MDT in 5G**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0091 Cat: B (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-197441 Add MDT Use Cases**

*Type: other For: Approval  
 32.421 v15.2.0  
 Source: Ericsson India Private Limited*

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

**S5-197442 Add MDT business level requirements**

*Type: other For: Approval  
 32.421 v..  
 Source: Ericsson India Private Limited*

**Discussion:**

No CR number, the type of Tdoc is incorrect. Revised to S5-197706 to fix this issue.

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

**S5-197706 Add MDT business level requirements**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0092 Cat: B (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

### 6.5 OAM&P Studies

#### 6.5.1 Study on protocol enhancement for real time communication

**S5-197034 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 Self-Organizing Networks (SON) for 5G

**S5-197035 Minutes of Study on Self-Organizing Networks (SON) for 5G**

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

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

**S5-197078 pCR 28.861 cleanup**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-197404 Add Automatic CSI to NSI mapping use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-197626**.

**S5-197423 pCR 28.861 Remove work not in Rel-16**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-197628**.

**S5-197628 pCR 28.861 Remove work not in Rel-16**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-197423)

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

**S5-197424 pCR 28.861 Trace and MDT**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-197627**.

**S5-197627 pCR 28.861 Trace and MDT**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-197424)

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

**S5-197464 Add cell neighbour relationship indication**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196178)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

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

**S5-197465 Update ANR optimization use case to allow for use of deployment data**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196180)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

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

**S5-197466 Add requirement for NR indication to ANR optimization usecase**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196182)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

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

**S5-197467 pCR 28.861 remove duplicated clause in Multi-aspect / multi-domain resource optimization use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196175)

**Abstract:**

This is a pure resubmission from SA5#127 of a not treated document

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

**S5-197468 Update SON coordination use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-197469 Update reporting for SON coordination use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-197472 Allow for service-centric load redistribution**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-197473 Update requirements for Load Balancing Optimization to allow for service centric resource optimization**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-197631 Presentation of TS 28.861 for approval to SA#86**

*Type: other For: Approval  
 Source: Intel*

**Decision:** The document was **revised to S5-197804**.

**S5-197804 Presentation of TS 28.861 for approval to SA#86**

*Type: TS or TR cover For: Approval  
 Source: Intel*

(Replaces S5-197631)

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

**S5-197848 Draft TR 28.861**

*Type: draft TR For: Approval  
 28.861 v1.1.0  
 Source: Intel*

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

#### 6.5.3 Study on non-public networks management

**S5-197036 Minutes of Study on non-public networks management**

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

**Decision:** The document was **revised to S5-197782**.

**S5-197782 Minutes of Study on non-public networks management**

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

(Replaces S5-197036)

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

**S5-197312 pCR 28.807 Clean-up for roles related to NPN management**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197557**.

**S5-197557 pCR 28.807 Clean-up for roles related to NPN management**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

(Replaces S5-197312)

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

**S5-197313 pCR 28.807 Clarification on NPN use cases**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

**Discussion:**

No comments.

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

**S5-197314 pCR 28.807 Add potential requirements for management of NPN**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197558**.

**S5-197558 pCR 28.807 Add potential requirements for management of NPN**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

(Replaces S5-197314)

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

**S5-197315 Network sharing with NPN**

*Type: other For: Approval  
 Source: Huawei*

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

**S5-197316 LS on network sharing with non-public networks**

*Type: LS out For: Approval  
 to SA2, RAN2, RAN3, cc SA1  
 Source: Huawei*

**Decision:** The document was **revised to S5-197559**.

**S5-197559 LS on network sharing with non-public networks**

*Type: LS out For: Approval  
 to SA2, cc SA1, RAN2, RAN3  
 Source: Huawei*

(Replaces S5-197316)

**Decision:** The document was **revised to S5-197805**.

**S5-197805 LS on network sharing with non-public networks**

*Type: LS out For: Approval  
 to SA2, cc SA1, RAN2, RAN3  
 Source: Huawei*

(Replaces S5-197559)

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

**S5-197317 pCR 28.807 Add clauses for solutions and conclusions**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197563**.

**S5-197563 pCR 28.807 Add clauses for solutions and conclusions**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

(Replaces S5-197317)

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

**S5-197318 CAG management**

*Type: other For: Approval  
 Source: Huawei*

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

**S5-197319 LS on CAG**

*Type: LS out For: Approval  
 to SA2, RAN2, RAN3, CT4  
 Source: Huawei*

**Decision:** The document was **revised to S5-197560**.

**S5-197560 LS on CAG**

*Type: LS out For: Approval  
 to SA2, RAN2, cc RAN3, CT4  
 Source: Huawei*

(Replaces S5-197319)

**Decision:** The document was **revised to S5-197806**.

**S5-197806 LS on CAG**

*Type: LS out For: Approval  
 to SA2, RAN2, cc RAN3, CT4  
 Source: Huawei*

(Replaces S5-197560)

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

**S5-197391 Add NPN management use cases**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation*

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

**S5-197395 Add potential requirements for management of NPN**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation*

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

**S5-197435 Add NPN management use case**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation, Huawei*

**Decision:** The document was **revised to S5-197561**.

**S5-197561 Add NPN management use case**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation, Huawei*

(Replaces S5-197435)

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

**S5-197437 Add potential requirement for management of NPN**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation, Huawei*

**Decision:** The document was **revised to S5-197562**.

**S5-197562 Add potential requirement for management of NPN**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation, Huawei*

(Replaces S5-197437)

**Decision:** The document was **revised to S5-197800**.

**S5-197800 Add potential requirement for management of NPN**

*Type: pCR For: Approval  
 28.807 v0.2.0  
 Source: China Mobile Com. Corporation, Huawei*

(Replaces S5-197562)

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

**S5-197849 Draft TR 28.807**

*Type: draft TR For: Approval  
 28.807 v0.3.0  
 Source: Huawei*

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

#### 6.5.4 Study on management and orchestration aspects with integrated satellite components in a 5G network

**S5-197037 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**.

**S5-197242 Add already approved missing requirement from TSG WD SA5#127 from use case for creation of a network slice instance associated with a Satellite RAN and a Terrestrial RAN**

*Type: pCR For: Approval  
 28.808 v0.3.0  
 Source: THALES (Rapporteur), TNO*

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

**S5-197326 Add use case for multi-RAT load-balancing associated with a Satellite RAN and a Terrestrial RAN**

*Type: pCR For: Approval  
 28.808 v0.3.0  
 Source: ETRI*

**Abstract:**

This document adds a use case for the multi-RAT load-balancing .

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

**S5-197382 pCR 28.808 Add solution to allow a network slice instance to be associated with both a Satellite RAN and a Terrestrial RAN**

*Type: pCR For: Approval  
 28.808 v0.3.0  
 Source: TNO*

**Decision:** The document was **revised to S5-197579**.

**S5-197579 pCR 28.808 Add solution to allow a network slice instance to be associated with both a Satellite RAN and a Terrestrial RAN**

*Type: pCR For: Approval  
 28.808 v0.3.0  
 Source: TNO*

(Replaces S5-197382)

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

**S5-197850 Draft TR 28.808**

*Type: draft TR For: Approval  
 28.808 v0.4.0  
 Source: Thales*

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

#### 6.5.5 Study on enhancement of Management Data Analytics Service

**S5-197038 Minutes of Study on enhancement of Management Data Analytics Service**

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

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

**S5-197056 pCR Add MDA role in the management loop**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-197708**.

**S5-197708 pCR Add MDA role in the management loop**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS*

(Replaces S5-197056)

**Decision:** The document was **revised to S5-197807**.

**S5-197807 pCR Add MDA role in the management loop**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS*

(Replaces S5-197708)

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

**S5-197057 pCR Add possible solution on coverage issue analysis**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-197710**.

**S5-197710 pCR Add possible solution on coverage issue analysis**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS, Huawei*

(Replaces S5-197057)

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

**S5-197058 pCR Add UC on resource utilization analysis**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS*

**Decision:** The document was **revised to S5-197711**.

**S5-197711 pCR Add UC on resource utilization analysis**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Intel Corporation SAS*

(Replaces S5-197058)

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

**S5-197138 Resubmitted Ls from RAN3 Reply on User Data Congestion Analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-194749*

**Discussion:**

Resubmitted this LS to next meeting.

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

**S5-197145 Reply LS to SA5 on User Data Congestion Analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1910210*

**Discussion:**

Resubmitted this LS to next meeting.

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

**S5-197298 pCR 28.809 Update the overview descriptions of MDAS**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197707**.

**S5-197707 pCR 28.809 Update the overview descriptions of MDAS**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

(Replaces S5-197298)

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

**S5-197299 pCR 28.809 Update the use case of RAN user plane congestion**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197709**.

**S5-197709 pCR 28.809 Update the use case of RAN user plane congestion**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

(Replaces S5-197299)

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

**S5-197300 pCR 28.809 Update the use case of coverage issue analysis**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

**Discussion:**

merged into S5-197710

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

**S5-197301 pCR 28.809 Add the use case of E2E latency analysis as one of the SLS assurance related issues**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197714**.

**S5-197714 pCR 28.809 Add the use case of E2E latency analysis as one of the SLS assurance related issues**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

(Replaces S5-197301)

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

**S5-197302 pCR 28.809 Add the use case of alarm incident analysis as one of the fault management related issues**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197712**.

**S5-197712 pCR 28.809 Add the use case of alarm incident analysis as one of the fault management related issues**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

(Replaces S5-197302)

**Decision:** The document was **revised to S5-197808**.

**S5-197808 pCR 28.809 Add the use case of alarm incident analysis as one of the fault management related issues**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Huawei*

(Replaces S5-197712)

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

**S5-197324 pCR 28.809 Add UC on handover optimization**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Samsung Electronics GmbH*

**Decision:** The document was **revised to S5-197713**.

**S5-197713 pCR 28.809 Add UC on handover optimization**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Samsung Electronics GmbH*

(Replaces S5-197324)

**Decision:** The document was **revised to S5-197809**.

**S5-197809 pCR 28.809 Add UC on handover optimization**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: Samsung Electronics GmbH*

(Replaces S5-197713)

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

**S5-197454 Discussion paper on MDAS capabilities**

*Type: discussion For: Endorsement  
 Source: L.M. Ericsson Limited*

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

**S5-197680 pCR Add UC on MDA assisted energy saving**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S5-197781**.

**S5-197781 pCR Add UC on MDA assisted energy saving**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-197680)

**Decision:** The document was **revised to S5-197810**.

**S5-197810 pCR Add UC on MDA assisted energy saving**

*Type: pCR For: Approval  
 28.809 v0.1.0  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-197781)

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

**S5-197851 Draft TR 28.809**

*Type: draft TR For: Approval  
 28.809 v0.2.0  
 Source: Intel*

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

#### 6.5.6 Study on autonomous network levels

**S5-197039 Minutes of Study on autonomous network levels**

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

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

**S5-197330 pCR 28.810 addition of multi-domain/layer/technology orchestration automation use case and requirement**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: ETRI*

**Decision:** The document was **revised to S5-197701**.

**S5-197701 pCR 28.810 addition of multi-domain/layer/technology orchestration automation use case and requirement**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: ETRI*

(Replaces S5-197330)

**Decision:** The document was **revised to S5-197811**.

**S5-197811 pCR 28.810 addition of multi-domain/layer/technology orchestration automation use case and requirement**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: ETRI*

(Replaces S5-197701)

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

**S5-197351 pCR 28.810 Add concept of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197677**.

**S5-197677 pCR 28.810 Add concept of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197351)

**Decision:** The document was **revised to S5-197820**.

**S5-197820 pCR 28.810 Add concept of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197677)

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

**S5-197352 pCR 28.810 Add concept of network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197678**.

**S5-197678 pCR 28.810 Add concept of network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197352)

**Decision:** The document was **revised to S5-197821**.

**S5-197821 pCR 28.810 Add concept of network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197678)

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

**S5-197353 pCR 28.810 pCR 28.810 Add potential dimensions for classification of network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197745**.

**S5-197745 pCR 28.810 pCR 28.810 Add potential dimensions for classification of network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197353)

**Decision:** The document was **revised to S5-197822**.

**S5-197822 pCR 28.810 pCR 28.810 Add potential dimensions for classification of network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197745)

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

**S5-197354 pCR 28.810 Add coverage optimization scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197703**.

**S5-197703 pCR 28.810 Add coverage optimization scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197354)

**Decision:** The document was **revised to S5-197812**.

**S5-197812 pCR 28.810 Add coverage optimization scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197703)

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

**S5-197355 pCR 28.810 Add NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197704**.

**S5-197704 pCR 28.810 Add NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197355)

**Decision:** The document was **revised to S5-197813**.

**S5-197813 pCR 28.810 Add NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: Huawei, China Mobile, China Unicom, ZTE*

(Replaces S5-197704)

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

**S5-197384 Add background of relevant study in other SDOs or industry parties**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation*

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

**S5-197388 Add significance for levels of autonomous network**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation*

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

**S5-197394 Add potential solution for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation*

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

**S5-197397 Add fault RCA and recovery scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation*

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

**S5-197415 Add background of relevant study in other SDOs or industry parties**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

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

**S5-197416 Add background of relevant study in other SDOs or industry parties**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197675**.

**S5-197675 Add background of relevant study in other SDOs or industry parties**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

(Replaces S5-197416)

**Decision:** The document was **revised to S5-197780**.

**S5-197780 Add background of relevant study in other SDOs or industry parties**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

(Replaces S5-197675)

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

**S5-197417 Add significance for levels of autonomous network**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197676**.

**S5-197676 Add significance for levels of autonomous network**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

(Replaces S5-197417)

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

**S5-197425 Add potential solution for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197799**.

**S5-197799 Add potential solution for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

(Replaces S5-197425)

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

**S5-197838 Add potential solution for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

(Replaces S5-197799)

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

**S5-197431 Add fault RCA and recovery scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

**Decision:** The document was **revised to S5-197702**.

**S5-197702 Add fault RCA and recovery scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile Com. Corporation, Huawei, China Unicom, ZTE*

(Replaces S5-197431)

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

**S5-197852 Draft TR 28.810**

*Type: draft TR For: Approval  
 28.810 v0.2.0  
 Source: China Mobile*

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

#### 6.5.7 Study on network slice management enhancements (preliminary work before SA approval)

**S5-197040 Minutes of Study on network slice management enhancements (preliminary work before SA approval)**

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

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

## 7 Charging

**S5-197698 (reserved)**

*Type: other For: discussion  
 Source: charging*

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

**S5-197699 (reserved)**

*Type: other For: discussion  
 Source: charging*

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

**S5-197700 (reserved)**

*Type: other For: discussion  
 Source: charging*

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

### 7.1 Charging Plenary

**S5-197041 CH Agenda and Time Plan**

*Type: agenda For: (not specified)  
 Source: CH SWG Chair*

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

**S5-197042 CH Executive Report**

*Type: report For: (not specified)  
 Source: CH SWG Chair*

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

**S5-197140 Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover**

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

**Discussion:**

SA5 is aware of existing solution solving this situation: UE level configuration to block VoWifi in roaming.

**Decision:** The document was **replied to in S5-197480**.

**S5-197480 Reply to: Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover**

*Type: LS out For: approval  
 to GSMA  
 Source: Deutsche Telekom*

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

**S5-197143 Resubmitted LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations**

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

**Discussion:**

Reply: considered in AMF WID.

Check potential answers from SA2 on MME

**Decision:** The document was **replied to in S5-197481**.

**S5-197481 Reply to: Resubmitted LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations**

*Type: LS out For: approval  
 to ETSI TC LI, cc 3GPP SA, 3GPP SA3LI, 3GPP SA2, 3GPP RAN3  
 Source: Nokia*

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

**S5-197146 LS Reply to SA5 on Introduction of CHF Address from PCF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1910224*

**Decision:** The document was **replied to in S5-197495**.

**S5-197154 Revision of SA5 ToR - charging part**

*Type: ToR For: (not specified)  
 Source: CH SWG Chair*

**Decision:** The document was **revised to S5-197482**.

**S5-197482 Revision of SA5 ToR - charging part**

*Type: ToR For: -  
 Source: CH SWG Chair*

(Replaces S5-197154)

**Discussion:**

SA5 consider that the ToR of charging part should merge with ToR of OAM part as the final version to submit to SA.

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

**S5-197697 SA5#128 CH Agreed & Approved**

*Type: other For: Agreement  
 Source: CH SWG Chair*

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

### 7.2 New Charging Work Item proposals

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-197051 Rel-16 CR 32.255 Correction of handover triggers**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0139 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197685**.

**S5-197685 Rel-16 CR 32.255 Correction of handover triggers**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0139 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197051)

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

**S5-197107 Rel-15 CR 32.298 Correction of references to 5G**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0765 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197529**.

**S5-197529 Rel-15 CR 32.298 Correction of references to 5G**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0765 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197107)

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

**S5-197108 Rel-16 CR 32.298 Correction of references to 5G**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0766 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197530**.

**S5-197530 Rel-16 CR 32.298 Correction of references to 5G**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0766 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197108)

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

**S5-197109 Rel-15 CR 32.298 Correction of abnormal release trigger**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0767 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197110 Rel-16 CR 32.298 Correction of abnormal release trigger**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0768 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197124 Rel-15 CR 32.298 Correction of Serving Node change**

*Type: CR For: (not specified)  
 32.298 v15.8.0 CR-0770 Cat: F (Rel-15)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197531**.

**S5-197531 Rel-15 CR 32.298 Correction of Serving Node change**

*Type: CR For: -  
 32.298 v15.8.0 CR-0770 rev 1 Cat: F (Rel-15)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197124)

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

**S5-197135 Rel-16 CR 32.298 Correction of Serving Node change**

*Type: CR For: (not specified)  
 32.298 v16.2.0 CR-0771 Cat: A (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197532**.

**S5-197532 Rel-16 CR 32.298 Correction of Serving Node change**

*Type: CR For: -  
 32.298 v16.2.0 CR-0771 rev 1 Cat: A (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197135)

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

**S5-197192 Rel-15 CR 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0146 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197533**.

**S5-197533 Rel-15 CR 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0146 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197192)

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

**S5-197193 Rel-15 CR 32.298 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0772 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197537**.

**S5-197537 Rel-15 CR 32.298 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0772 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197193)

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

**S5-197194 Rel-15 CR 32.255 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0147 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197535**.

**S5-197535 Rel-15 CR 32.255 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0147 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197194)

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

**S5-197195 Rel-15 CR 32.255 Clarify on the limit for multiple UPFs**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0148 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197655**.

**S5-197655 Rel-15 CR 32.255 Clarify on the limit for multiple UPFs**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0148 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197195)

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

**S5-197196 Rel-15 CR 32.255 Clarify on the SSC mode and triggers for time and volume**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0149 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197539**.

**S5-197539 Rel-15 CR 32.255 Clarify on the SSC mode and triggers for time and volume**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0149 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197196)

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

**S5-197197 Rel-15 CR 32.290 Correction on Notify response**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0095 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197657**.

**S5-197657 Rel-15 CR 32.290 Correction on Notify response**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0095 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197197)

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

**S5-197198 Rel-15 CR 32.291 Correction on Notify response**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0165 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197659**.

**S5-197659 Rel-15 CR 32.291 Correction on Notify response**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0165 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197198)

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

**S5-197199 Rel-15 CR 32.255 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0150 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197200 Rel-15 CR 32.290 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0096 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197201 Rel-15 CR 32.291 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0166 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197202 Rel-15 CR 32.298 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0773 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197203 Rel-15 CR 32.274 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0072 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197204 Rel-15 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0167 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197694**.

**S5-197694 Rel-15 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0167 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197204)

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

**S5-197205 Rel-15 CR 32.255 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0151 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197206 Rel-15 CR 32.274 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0073 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197207 Rel-15 CR 32.290 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0097 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197208 Rel-15 CR 32.291 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0168 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197209 Rel-15 CR 32.291 Correction on the Resource URI**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0169 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197663**.

**S5-197663 Rel-15 CR 32.291 Correction on the Resource URI**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0169 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197209)

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

**S5-197210 Rel-15 CR 32.255 Add the access type**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0152 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197211 Rel-15 CR 32.291 Add the access type**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0170 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197212 Rel-15 CR 32.298 Add the access type**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0774 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197213 Rel-15 CR 32.274 Correction on Applicable Triggers in the SMSF**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0074 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197693**.

**S5-197693 Rel-15 CR 32.274 Correction on Applicable Triggers in the SMSF**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0074 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197213)

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

**S5-197214 Rel-15 CR 32.274 Correction on SMS Submission - ECUR flow**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0075 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197692**.

**S5-197692 Rel-15 CR 32.274 Correction on SMS Submission - ECUR flow**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0075 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197214)

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

**S5-197215 Rel-16 CR 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0153 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197534 Rel-16 CR 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0153 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197215)

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

**S5-197216 Rel-16 CR 32.298 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0775 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197538**.

**S5-197538 Rel-16 CR 32.298 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0775 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197216)

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

**S5-197217 Rel-16 CR 32.255 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0154 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197536**.

**S5-197536 Rel-16 CR 32.255 Addition of Furnish Charging Information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0154 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197217)

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

**S5-197218 Rel-16 CR 32.255 Clarify on the limit for multiple UPFs**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0155 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197656**.

**S5-197656 Rel-16 CR 32.255 Clarify on the limit for multiple UPFs**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0155 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197218)

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

**S5-197219 Rel-16 CR 32.255 Clarify on the SSC mode and triggers for time and volume**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0156 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197654**.

**S5-197654 Rel-16 CR 32.255 Clarify on the SSC mode and triggers for time and volume**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0156 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197219)

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

**S5-197220 Rel-16 CR 32.290 Correction on Notify response**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0098 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197658**.

**S5-197658 Rel-16 CR 32.290 Correction on Notify response**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0098 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197220)

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

**S5-197221 Rel-16 CR 32.291 Correction on Notify response**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0171 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197660**.

**S5-197660 Rel-16 CR 32.291 Correction on Notify response**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0171 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197221)

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

**S5-197222 Rel-16 CR 32.255 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0157 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197223 Rel-16 CR 32.290 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0099 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197224 Rel-16 CR 32.291 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0172 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197225 Rel-16 CR 32.298 Clarify the Category in message format**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0776 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197226 Rel-16 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0173 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197695**.

**S5-197695 Rel-16 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0173 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197226)

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

**S5-197227 Rel-16 CR 32.255 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0158 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197228 Rel-16 CR 32.290 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0100 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197229 Rel-16 CR 32.291 Add the uniqueness message identifier**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0174 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197230 Rel-16 CR 32.291 Correction on the Resource URI**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0175 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197664**.

**S5-197664 Rel-16 CR 32.291 Correction on the Resource URI**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0175 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197230)

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

**S5-197231 Rel-16 CR 32.255 Add the access type**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0159 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197232 Rel-16 CR 32.291 Add the access type**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0176 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197233 Rel-16 CR 32.298 Add the access type**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0777 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197234 Rel-16 CR 32.298 Add the Qos Characteristics**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0778 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197686**.

**S5-197686 Rel-16 CR 32.298 Add the Qos Characteristics**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0778 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197234)

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

**S5-197235 Rel-16 CR 32.290 Add the group id for CHF registration**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0101 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197687**.

**S5-197687 Rel-16 CR 32.290 Add the group id for CHF registration**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0101 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197235)

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

**S5-197239 Rel-16 CR 32.298 Correction of handover triggers**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0779 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197268 Rel-15 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0131 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196622)

**Decision:** The document was **revised to S5-197665**.

**S5-197665 Rel-15 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0131 rev 3 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197268)

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

**S5-197269 Rel-16 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0147 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196623)

**Decision:** The document was **revised to S5-197666**.

**S5-197666 Rel-16 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0147 rev 3 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197269)

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

**S5-197281 Rel-15 CR 32.291 Add Session-AMBR change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0182 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197667**.

**S5-197667 Rel-15 CR 32.291 Add Session-AMBR change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0182 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197281)

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

**S5-197282 Rel-16 CR 32.291 Add Session-AMBR change trigger**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0183 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197668**.

**S5-197668 Rel-16 CR 32.291 Add Session-AMBR change trigger**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0183 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197282)

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

**S5-197288 Rel-15 CR 32.298 Correction on unused quota timer**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0782 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197669**.

**S5-197669 Rel-15 CR 32.298 Correction on unused quota timer**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0782 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-197288)

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

**S5-197289 Rel-16 CR 32.298 Correction on unused quota timer**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0783 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-197350 Rel-15 CR 32.291 Correction to tariffTimeChange with UTC format**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0184 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-197360 Rel-16 CR 32.291 Correction to tariffTimeChange with UTC format**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0185 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-197376 Rel-15 CR 32.290 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.290 v15.5.1 CR-0102 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197670**.

**S5-197670 Rel-15 CR 32.290 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.290 v15.5.1 CR-0102 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-197376)

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

**S5-197377 Rel-16 CR 32.290 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.290 v16.2.1 CR-0103 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197671**.

**S5-197671 Rel-16 CR 32.290 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.290 v16.2.1 CR-0103 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197377)

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

**S5-197378 Rel-15 CR 32.291 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.291 v15.4.0 CR-0188 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-197379 Rel-16 CR 32.291 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0189 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-197380 Rel-15 CR 32.298 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.298 v15.8.0 CR-0787 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197672**.

**S5-197672 Rel-15 CR 32.298 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.298 v15.8.0 CR-0787 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-197380)

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

**S5-197381 Rel-16 CR 32.298 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.298 v16.2.0 CR-0788 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197673**.

**S5-197673 Rel-16 CR 32.298 Correction to NF consumer identification**

*Type: CR For: Approval  
 32.298 v16.2.0 CR-0788 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197381)

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

**S5-197385 Rel-15 CR 32.291 Correction of binding for 5G data connectivity**

*Type: CR For: Approval  
 32.291 v15.4.0 CR-0190 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197681**.

**S5-197681 Rel-15 CR 32.291 Correction of binding for 5G data connectivity**

*Type: CR For: Approval  
 32.291 v15.4.0 CR-0190 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-197385)

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

**S5-197387 Rel-16 CR 32.291 Correction of binding for 5G data connectivity**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0191 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197682**.

**S5-197682 Rel-16 CR 32.291 Correction of binding for 5G data connectivity**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0191 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197387)

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

**S5-197389 Rel-15 CR 32.255 Correction of charging rule base name**

*Type: CR For: Approval  
 32.255 v15.4.0 CR-0161 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197683**.

**S5-197683 Rel-15 CR 32.255 Correction of charging rule base name**

*Type: CR For: Approval  
 32.255 v15.4.0 CR-0161 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-197389)

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

**S5-197390 Rel-16 CR 32.255 Correction of charging rule base name**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0162 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197684**.

**S5-197684 Rel-16 CR 32.255 Correction of charging rule base name**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0162 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197390)

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

**S5-197392 Rel-16 CR 32.290 Definition of state machine**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0089 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196380)

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

**S5-197393 Rel-16 CR 32.290 Correction of redirect at termination**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0090 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196381)

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

**S5-197408 Rel-16 CR 32.291 Correction OpenAPI syntax**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0192 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197661 Rel-15 CR 32.240 Clarify the Category across specifications**

*Type: CR For: Agreement  
 32.240 v.. CR-0410 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-197662 Rel-16 CR 32.240 Clarify the Category across specifications**

*Type: CR For: Agreement  
 32.240 v.. CR-0411 Cat: A (Rel-16)  
  
 Source: Huawei*

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

### 7.4 Rel-16 Charging

#### 7.4.1 Volume Based Charging Aspects for VoLTE

**S5-197356 Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS**

*Type: CR For: Approval  
 32.251 v15.5.0 CR-0514 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Discussion:**

Clarify whether the categorization of RG, RG+SI is needed beyond the VolTE bearer

**Decision:** The document was **revised to S5-197483**.

**S5-197483 Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS**

*Type: CR For: Approval  
 32.251 v15.5.0 CR-0514 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197356)

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

**S5-197357 Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS**

*Type: CR For: Approval  
 32.251 v15.5.0 CR-0515 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-197358 Rel-16 CR 32.251 Add Caller and Callee information**

*Type: CR For: Approval  
 32.251 v15.5.0 CR-0516 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197484**.

**S5-197484 Rel-16 CR 32.251 Add Caller and Callee information**

*Type: CR For: Approval  
 32.251 v15.5.0 CR-0516 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197358)

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

**S5-197361 Rel-16 CR 32.298 Add Caller and Callee information**

*Type: CR For: Approval  
 32.298 v16.2.0 CR-0784 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197485**.

**S5-197485 Rel-16 CR 32.298 Add Caller and Callee information**

*Type: CR For: Approval  
 32.298 v16.2.0 CR-0784 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197361)

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

**S5-197362 Rel-16 CR 32.299 Add Caller and Callee information**

*Type: CR For: Approval  
 32.299 v16.1.0 CR-0823 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197486**.

**S5-197486 Rel-16 CR 32.299 Add Caller and Callee information**

*Type: CR For: Approval  
 32.299 v16.1.0 CR-0823 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197362)

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

**S5-197696 LS on Addition of AVP code definition**

*Type: LS out For: Approval  
 to CT4, cc CT3  
 Source: Nokia*

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

#### 7.4.2 Network Exposure Charging in 5G System Architecture

**S5-197365 Rel-16 CR 32.291 Addition of binding for exposure function northbound API**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0186 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197496**.

**S5-197496 Rel-16 CR 32.291 Addition of binding for exposure function northbound API**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0186 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197365)

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

**S5-197367 Rel-16 CR 32.291 Addition of attributes in yaml for exposure function northbound API**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0187 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197497**.

**S5-197497 Rel-16 CR 32.291 Addition of attributes in yaml for exposure function northbound API**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0187 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197367)

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

**S5-197368 Rel-16 CR 32.298 Addition of CHF CDR for exposure function northbound API**

*Type: CR For: Approval  
 32.298 v16.2.0 CR-0786 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

#### 7.4.3 Charging AMF in 5G System Architecture Phase 1

**S5-197111 Rel-16 pCR 32.256 Solve Editor's Note on new triggers activation by CHF**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Comments on triggers activation/deactivation at AMF functionality level.

**Decision:** The document was **revised to S5-197487**.

**S5-197487 Rel-16 pCR 32.256 Solve Editor's Note on new triggers activation by CHF**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197111)

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

**S5-197112 Rel-16 pCR 32.256 Solve Editor's Note Multiple Unit Usage**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197488**.

**S5-197488 Rel-16 pCR 32.256 Solve Editor's Note Multiple Unit Usage**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197112)

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

**S5-197113 Rel-16 pCR 32.256 Introduce PSCELL in location charging**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197114 Rel-16 pCR 32.256 Remove Editor's Note event offline scenario**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197115 Rel-16 pCR 32.256 Update Registration Charging Information IEs**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197489**.

**S5-197489 Rel-16 pCR 32.256 Update Registration Charging Information IEs**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197115)

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

**S5-197116 Rel-16 pCR 32.256 Introduce Message flows for roaming**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197490**.

**S5-197490 Rel-16 pCR 32.256 Introduce Message flows for roaming**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197116)

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

**S5-197117 Rel-16 pCR 32.256 Introduce Charging information for roaming**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197118 Rel-16 CR 32.298 Introduce AMF CHF CDRs**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0769 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

S5-197440 is merged into S5-197118.

To be checked if S5-197440 does not impact other CRs on ASN.1

Tag nb for NEFinformation is 17 (to be considered here)

**Decision:** The document was **revised to S5-197493**.

**S5-197493 Rel-16 CR 32.298 Introduce AMF CHF CDRs**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0769 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197118)

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

**S5-197119 Rel-16 CR 32.291 Introduce OpenAPI for AMF charging**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0164 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197120 Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0153 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196253)

**Abstract:**

This is a revised version of Tdoc postponed from SA5#127

**Decision:** The document was **revised to S5-197492**.

**S5-197492 Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0153 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197120)

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

**S5-197246 LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF**

*Type: LS out For: Approval  
 to SA2, cc CT3  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197495**.

**S5-197495 LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF**

*Type: LS out For: Approval  
 to SA2, cc CT3  
 Source: Nokia*

(Replaces S5-197246)

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

**S5-197335 Rel-16 pCR 32.256 Align detailed message format for charging information**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197491**.

**S5-197491 Rel-16 pCR 32.256 Align detailed message format for charging information**

*Type: pCR For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197335)

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

**S5-197413 Rel-16 CR 32.291 Introduction of Binding for AMF Charging**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0193 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-197494**.

**S5-197494 Rel-16 CR 32.291 Introduction of Binding for AMF Charging**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0193 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-197413)

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

**S5-197440 Rel-16 CR 32.298 Improvement of ASN.1 chapter CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0790 Cat: D (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

S5-197440 is merged into S5-197118.

To be checked if S5-197440 does not impact other CRs on ASN.1

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

**S5-197498 Draft TS 32.256**

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

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

**S5-197499 TS 32.256 cover sheet for SA approval**

*Type: TS or TR cover For: Approval  
 32.256 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 7.4.4 IMS Charging in 5G System Architecture

**S5-197185 Rel-16 CR 32.260 CHF selection for IMS charging**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0401 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197500**.

**S5-197500 Rel-16 CR 32.260 CHF selection for IMS charging**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0401 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197185)

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

**S5-197186 Rel-16 CR 32.260 IMS charging general description**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0402 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197501**.

**S5-197501 Rel-16 CR 32.260 IMS charging general description**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0402 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197186)

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

**S5-197187 Rel-16 CR 32.260 IMS charging trigger**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0403 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197502**.

**S5-197502 Rel-16 CR 32.260 IMS charging trigger**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0403 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197187)

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

**S5-197369 Rel-16 CR 32.275 Addition of converged flows for TIP, TIR, HOLD and CB**

*Type: CR For: Approval  
 32.275 v16.0.0 CR-0074 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197370 Rel-16 CR 32.281 Addition of converged flows**

*Type: CR For: Approval  
 32.281 v16.0.0 CR-0008 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197503 Rel-16 CR 32.281 Addition of convergent flows**

*Type: CR For: Agreement  
 32.281 v16.0.0 CR-0007 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196548)

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

#### 7.4.5 Charging aspects of Enhancing Topology of SMF and UPF in 5G Networks

**S5-197045 Rel-16 CR 32.255 PDU session modification procedure with I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0133 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Adding Charging procedure for PDU session modification with I-SMF involvement .

**Decision:** The document was **revised to S5-197504**.

**S5-197504 Rel-16 CR 32.255 PDU session modification procedure with I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0133 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197045)

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

**S5-197046 Rel-16 CR 32.255 PDU session release procedure with I-SMF involvement**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0134 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Adding charging procedure for PDU session release procedure with I-SMF involvement

**Decision:** The document was **revised to S5-197505**.

**S5-197505 Rel-16 CR 32.255 PDU session release procedure with I-SMF involvement**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0134 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197046)

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

**S5-197047 Rel-16 CR 32.255 Charging procedure with I-SMF insertion/change/removal**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0135 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197506**.

**S5-197506 Rel-16 CR 32.255 Charging procedure with I-SMF insertion/change/removal**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0135 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197047)

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

**S5-197048 Rel-16 CR 32.255 Addition of PSA and UL CL or BP controlled by I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0136 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197049 Rel-16 CR 32.255 Removal of PSA and UL CL or BP controlled by I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0137 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197050 Rel-16 CR 32.255 Change of PSA for UL CL or BP controlled by I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0138 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197066 Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0140 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197067 Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0141 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197103 Rel-16 CR 32.255 Adding I-SMF triggers related actions in SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0142 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197507**.

**S5-197507 Rel-16 CR 32.255 Adding I-SMF triggers related actions in SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0142 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197103)

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

**S5-197188 Rel-16 CR 32.255 Add I-SMF charging message flow**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0143 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

merged into S5-197506

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

**S5-197189 Rel-16 CR 32.255 Add CDR trigger condition for change of I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0144 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197509**.

**S5-197509 Rel-16 CR 32.255 Add CDR trigger condition for change of I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0144 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197189)

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

**S5-197190 Rel-16 CR 32.255 Add charging ID assigned by SMF with I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0145 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197510**.

**S5-197510 Rel-16 CR 32.255 Add charging ID assigned by SMF with I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0145 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197190)

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

**S5-197257 Rel-16 CR 32.255 Adding I-SMF controlled UPF triggers & related actions in SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0160 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197508**.

**S5-197508 Rel-16 CR 32.255 Adding I-SMF controlled UPF triggers & related actions in SMF**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0160 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197257)

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

**S5-197258 Rel-16 CR 32.291 Adding I-SMF Identifier**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0177 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197259 Rel-16 CR 32.291 adding I-SMF controlled UPF information**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0178 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197260 Rel-16 CR 32.291 adding I-SMF related trigger type**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0179 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197511**.

**S5-197511 Rel-16 CR 32.291 adding I-SMF related trigger type**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0179 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197260)

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

**S5-197261 Rel-16 CR 32.298 adding I-SMF related SMFTrigger**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0780 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197514**.

**S5-197514 Rel-16 CR 32.298 adding I-SMF related SMFTrigger**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0780 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197261)

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

**S5-197265 Rel-16 CR 32.291 Add data type for I-SMF**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0180 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-197512**.

**S5-197512 Rel-16 CR 32.291 Add data type for I-SMF**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0180 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-197265)

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

**S5-197266 Rel-16 CR 32.291 Add trigger types in the schema for I-SMF**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0181 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

merged into S5-197511

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

**S5-197267 Rel-16 CR 32.298 Add trigger types in abstract syntax definition of CHF-CDR for I-SMF**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0781 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

merged into S5-197514

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

**S5-197366 Rel-16 CR 32.298 adding I-SMF controlled UPF information**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0785 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-197372 Rel-16 CR 32.255 Adding ETSUN architecture with I-SMF insertion**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0127 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196427)

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

**S5-197436 Rel-16 CR 32.298 Add NetworkFunctionality for I-SMF**

*Type: CR For: (not specified)  
 32.298 v16.2.0 CR-0789 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197515**.

**S5-197515 Rel-16 CR 32.298 Add NetworkFunctionality for I-SMF**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0789 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197436)

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

**S5-197439 Rel-16 CR 32.291 Add serving node information**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0194 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-197513**.

**S5-197513 Rel-16 CR 32.291 Add serving node information**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0194 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-197439)

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

**S5-197446 Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0163 Cat: D (Rel-16)  
  
 Source: Ericsson.*

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

**S5-197544 Add I-SMF charging message flow for handover**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0165 Cat: B (Rel-16)  
  
 Source: Huawei*

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

#### 7.4.6 Network Slice Performance and Analytics Charging in 5G System

**S5-197173 Discussion paper on charging information**

*Type: discussion For: Agreement  
 28.201 v..  
 Source: Huawei*

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

**S5-197174 Rel-16 pCR 28.201 Add high level 5G System architecture to clause 4.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197516**.

**S5-197516 Rel-16 pCR 28.201 Add high level 5G System architecture to clause 4.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197174)

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

**S5-197175 Rel-16 pCR 28.201 Add charging architecture to clause 4.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Discussion:**

merged into S5-197517

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

**S5-197176 Rel-16 pCR 28.201 Add charging requirements to clause 5.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197519**.

**S5-197519 Rel-16 pCR 28.201 Add charging requirements to clause 5.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197176)

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

**S5-197177 Rel-16 pCR 28.201 Add information description to clause 5.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197520**.

**S5-197520 Rel-16 pCR 28.201 Add information description to clause 5.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197177)

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

**S5-197178 Rel-16 pCR 28.201 Add discovery and selection to clause 5.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197521**.

**S5-197521 Rel-16 pCR 28.201 Add discovery and selection to clause 5.1**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197178)

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

**S5-197179 Rel-16 pCR 28.201 Add service consumer**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

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

**S5-197180 Rel-16 pCR 28.201 Add basic principles to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197522**.

**S5-197522 Rel-16 pCR 28.201 Add basic principles to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197180)

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

**S5-197181 Rel-16 pCR 28.201 Add applicable triggers to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

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

**S5-197182 Rel-16 pCR 28.201 Add NWDAF message flows to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

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

**S5-197183 Rel-16 pCR 28.201 Add message flow**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

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

**S5-197184 Rel-16 pCR 28.201 Add CDR generation to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197523**.

**S5-197523 Rel-16 pCR 28.201 Add CDR generation to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197184)

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

**S5-197348 Rel-16 pCR TS 28.201 Add high level description**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

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

**S5-197349 Rel-16 pCR TS 28.201 Add high level description**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197518**.

**S5-197518 Rel-16 pCR TS 28.201 Add high level description**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Huawei*

(Replaces S5-197349)

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

**S5-197373 Rel-16 pCR 28.201 Architecture considerations**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-197517**.

**S5-197517 Rel-16 pCR 28.201 Architecture considerations**

*Type: pCR For: Agreement  
 28.201 v0.1.0  
 Source: Ericsson*

(Replaces S5-197373)

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

**S5-197524 Draft TS 28.201**

*Type: other For: discussion  
 Source: Huawei*

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

#### 7.4.7 Network Slice Management Charging in 5G System

**S5-197068 Add Architecture Considerations**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Openet Telecom*

**Abstract:**

This pCR proposes the initial content for the architecture considerations clause for Network Slice Management Charging in the 5G System

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

**S5-197343 Rel-16 pCR 28.202 Introduce Scope and references**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197344 Rel-16 pCR 28.202 Introduce Architecture**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197345 Rel-16 pCR 28.202 Introduce Charging principles**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-197374 Rel-16 pCR 28.202 Architecture considerations**

*Type: pCR For: Agreement  
 28.202 v0.0.0  
 Source: Ericsson*

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

#### 7.4.8 Charging Access Traffic Steering, Switching and Splitting in 5G system architecture (preliminary work before SA approval)

#### 7.4.9 Charging Aspect for 5WWC (preliminary work before SA approval)

**S5-197336 Rel-16 draftCR 32.255 Add 5WWC architecture diagram**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197688**.

**S5-197688 Rel-16 draftCR 32.255 Add 5WWC architecture diagram**

*Type: draftCR For: -  
 32.255 v16.2.0  
 Source: Huawei*

(Replaces S5-197336)

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

**S5-197337 Rel-16 draftCR 32.255 Add 5WWC charging requirements**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197689**.

**S5-197689 Rel-16 draftCR 32.255 Add 5WWC charging requirements**

*Type: draftCR For: -  
 32.255 v16.2.0  
 Source: Huawei*

(Replaces S5-197337)

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

**S5-197338 Rel-16 draftCR 32.255 Add precedure for 5G RG scenario**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197690**.

**S5-197690 Rel-16 draftCR 32.255 Add precedure for 5G RG scenario**

*Type: draftCR For: Approval  
 32.255 v16.2.0  
 Source: Huawei*

(Replaces S5-197338)

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

**S5-197339 Rel-16 draftCR 32.255 Add precedure for FN RG scenario**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

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

**S5-197340 Rel-16 draftCR 32.255 Add handover of a PDU Session for 5G RG**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

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

**S5-197341 Rel-16 draftCR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197691**.

**S5-197691 Rel-16 draftCR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG**

*Type: draftCR For: -  
 32.255 v16.2.0  
 Source: Huawei*

(Replaces S5-197341)

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

**S5-197342 Rel-16 draftCR 32.255 Add description on charging information**

*Type: draftCR For: (not specified)  
 32.255 v16.2.0  
 Source: Huawei*

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

#### 7.4.10 CHF-controlled quota management (preliminary work before SA approval)

**S5-197375 Rel-16 Discussion on quota management control**

*Type: discussion For: Discussion  
 32.290 v..  
 Source: Ericsson*

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

**S5-197457 Introduce CHF-Controlled Quota Management**

*Type: CR For: Approval  
 32.255 v16.2.0 CR-0164 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-197458 Add CHF-Controlled Quota Management functionality**

*Type: CR For: Approval  
 32.290 v16.2.1 CR-0104 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-197459 Add Quota Management Suspend and Resume Result Codes**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0195 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-197460 Add Quota Management Suspend and Resume Result Codes in yaml**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0196 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

### 7.5 Charging Studies

#### 7.5.1 Study on Charging Aspects of Network Slicing

**S5-197172 Rel-16 pCR TR 32.845 Remove the editor's note about capacity based charging**

*Type: pCR For: Agreement  
 32.845 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-197525**.

**S5-197525 Rel-16 pCR TR 32.845 Remove the editor's note about capacity based charging**

*Type: pCR For: Agreement  
 32.845 v1.1.0  
 Source: Huawei*

(Replaces S5-197172)

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

**S5-197526 Rel-16 pCR TR 32.845 Conclusion of the study**

*Type: pCR For: Approval  
 32.845 v1.1.0  
 Source: Huawei*

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

**S5-197527 Draft TR 32.845**

*Type: draft TR For: Approval  
 32.845 v1.2.0  
 Source: Huawei*

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

**S5-197528 TR 32.845 cover sheet SA approval**

*Type: TS or TR cover For: Information  
 32.845 v..  
 Source: Huawei*

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

## 8 Any Other Business

## 9 Closing of the meeting

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| * S5-197000 | * Agenda | * WG Chairman | * approved |  |  |
| * S5-197001 | * IPR and legal declaration | * WG Chairman | * noted |  |  |
| * S5-197002 | * Report from last SA5 meeting | * MCC | * approved |  |  |
| * S5-197003 | * Leaders meeting agenda | * WG Chairman | * noted |  |  |
| * S5-197004 | * Leaders meeting minutes | * WG Chairman | * noted |  |  |
| * S5-197005 | * SA5 Working Procedures | * WG Chairman | * noted |  |  |
| * S5-197006 | * SA5 Meeting Facility Requirements | * WG Vice Chair (Nokia) | * approved |  |  |
| * S5-197007 | * Process for management of draft TSs/TRs | * WG Chairman | * noted |  |  |
| * S5-197008 | * CR Quality Check | * MCC | * noted |  |  |
| * S5-197009 | * Status of email approvals | * WG Chairman | * available |  |  |
| * S5-197010 | * SA5 Meeting Calendar | * WG Chairman | * noted |  |  |
| * S5-197011 | * 3GPP SA5 Work Plan | * MCC | * noted |  |  |
| * S5-197012 | * Time Plan for OAM&P | * WG Chairman | * noted |  |  |
| * S5-197013 | * OAM Executive Report | * WG Vice Chair (Huawei) | * noted |  |  |
| * S5-197014 | * OAM&P SWG action list | * WG Vice Chair (Huawei) | * revised |  | * S5-197547 |
| * S5-197015 | * SA5 status report at last SA meeting | * WG Chairman | * withdrawn |  |  |
| * S5-197016 | * SA5 results at last SA meeting | * WG Chairman | * withdrawn |  |  |
| * S5-197017 | * Minutes of Management of QoE measurement collection | * Rapporteur (Ericsson) | * noted |  |  |
| * S5-197018 | * Minutes of Energy effciency of 5G | * Rapporteur (ORANGE) | * revised |  | * S5-197652 |
| * S5-197019 | * Minutes of Network policy management for mobile networks based on NFV scenarios | * Rapporteur (China Mobile) | * revised |  | * S5-197783 |
| * S5-197020 | * Minutes of Intent driven management service for mobile networks | * Rapporteur (Huawei) | * noted |  |  |
| * S5-197021 | * Minutes of Enhancement of performance assurance for 5G networks including network slicing | * Rapporteur (Intel) | * noted |  |  |
| * S5-197022 | * Minutes of Discovery of management services in 5G | * Rapporteur (Huawei) | * noted |  |  |
| * S5-197023 | * Minutes of NRM enhancements | * Rapporteur (Nokia) | * noted |  |  |
| * S5-197024 | * Minutes of Trace Management in the context of Services Based Management Architecture | * Rapporteur (Nokia) | * noted |  |  |
| * S5-197025 | * Minutes of Integration of ONAP and 3GPP 5G management framework | * Rapporteur (AT&T)) | * noted |  |  |
| * S5-197026 | * Minutes of Closed loop SLS Assurance | * Rapporteur (Ericsson) | * noted |  |  |
| * S5-197027 | * Minutes of Streaming trace reporting | * Rapporteur (Nokia) | * noted |  |  |
| * S5-197028 | * Minutes of KPI reporting | * Rapporteur (ZTE) | * noted |  |  |
| * S5-197029 | * Minutes of Self-Organizing Networks (SON) for 5G networks | * Rapporteur (Intel) | * noted |  |  |
| * S5-197030 | * Minutes of Enhancement of 3GPP management system for multiple tenant environment support | * Rapporteur (Huawei) | * noted |  |  |
| * S5-197031 | * Minutes of Management Aspects of 5G Service-Level Agreement | * Rapporteur (China Mobile) | * noted |  |  |
| * S5-197032 | * Minutes of Network policy management for 5G mobile networks based on NFV scenarios (preliminary work before SA approval) | * Rapporteur (China Mobile) | * withdrawn |  |  |
| * S5-197033 | * Minutes of Management of MDT in 5G (preliminary work before SA approval) | * Rapporteur (Ericsson) | * noted |  |  |
| * S5-197034 | * Minutes of Study on protocol enhancement for real time communication | * Rapporteur(Nokia) | * withdrawn |  |  |
| * S5-197035 | * Minutes of Study on Self-Organizing Networks (SON) for 5G | * Rapporteur (Intel) | * noted |  |  |
| * S5-197036 | * Minutes of Study on non-public networks management | * Rapporteur (Huawei) | * revised |  | * S5-197782 |
| * S5-197037 | * Minutes of Study on management and orchestration aspects with integrated satellite components in a 5G network | * Rapporteur (Thales) | * noted |  |  |
| * S5-197038 | * Minutes of Study on enhancement of Management Data Analytics Service | * Rapporteur (Intel) | * noted |  |  |
| * S5-197039 | * Minutes of Study on autonomous network levels | * Rapporteur (China Mobile) | * noted |  |  |
| * S5-197040 | * Minutes of Study on on network slice management enhancements (preliminary work before SA approval) | * Rapporteur (Huawei) | * withdrawn |  |  |
| * S5-197041 | * CH Agenda and Time Plan | * CH SWG Chair | * approved |  |  |
| * S5-197042 | * CH Executive Report | * CH SWG Chair | * noted |  |  |
| * S5-197043 | * Add definitions of PDCP end user throughput measurements | * Nokia Solutions & Networks (I) | * not pursued |  | * - |
| * S5-197044 | * Rel-16 CR 28.532 Repair broken links in References | * AT&T, Deutsche Telekom, Orange | * not pursued | * S5-196539 |  |
| * S5-197045 | * Rel-16 CR 32.255 PDU session modification procedure with I-SMF | * Ericsson | * revised |  | * S5-197504 |
| * S5-197046 | * Rel-16 CR 32.255 PDU session release procedure with I-SMF involvement | * Ericsson | * revised |  | * S5-197505 |
| * S5-197047 | * Rel-16 CR 32.255 Charging procedure with I-SMF insertion/change/removal | * Ericsson | * revised |  | * S5-197506 |
| * S5-197048 | * Rel-16 CR 32.255 Addition of PSA and UL CL or BP controlled by I-SMF | * Ericsson | * not treated |  |  |
| * S5-197049 | * Rel-16 CR 32.255 Removal of PSA and UL CL or BP controlled by I-SMF | * Ericsson | * not treated |  |  |
| * S5-197050 | * Rel-16 CR 32.255 Change of PSA for UL CL or BP controlled by I-SMF | * Ericsson | * not treated |  |  |
| * S5-197051 | * Rel-16 CR 32.255 Correction of handover triggers | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197685 |
| * S5-197052 | * Rel-16 CR 28.532 Introduce Heartbeat MnS | * AT&T, Deutsche Telekom, Orange | * revised |  | * S5-197597 |
| * S5-197053 | * [Resubmitted] Rel-15 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * revised | * S5-196331 | * S5-197731 |
| * S5-197054 | * [Resubmitted] Rel-16 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * revised | * S5-196332 | * S5-197732 |
| * S5-197055 | * [Resubmitted] Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN | * Intel Finland Oy | * agreed | * S5-196610 |  |
| * S5-197056 | * pCR Add MDA role in the management loop | * Intel Corporation SAS | * revised |  | * S5-197708 |
| * S5-197057 | * pCR Add possible solution on coverage issue analysis | * Intel Corporation SAS | * revised |  | * S5-197710 |
| * S5-197058 | * pCR Add UC on resource utilization analysis | * Intel Corporation SAS | * revised |  | * S5-197711 |
| * S5-197059 | * Rel-16 CR TS 28.541 XML Solution Set for 5GC | * CATT,Huawei | * revised | * S5-196296 | * S5-197730 |
| * S5-197060 | * Rel-16 CR 28.552 Add measurements related to NF service registration and update | * Intel Corporation SAS | * agreed |  |  |
| * S5-197061 | * Rel-16 CR 28.552 Add measurements related to NF service discovery | * Intel Corporation SAS | * agreed |  |  |
| * S5-197062 | * Rel-16 CR 28.552 Add measurements related to UE policy association | * Intel Corporation SAS | * agreed |  |  |
| * S5-197063 | * Rel-16 CR 28.552 Add measurements related to PFD management | * Intel Corporation SAS | * agreed |  |  |
| * S5-197064 | * Rel-16 CR 28.552 Add measurements related to QoS flow release in the untrusted non-3GPP access | * Intel Corporation SAS | * agreed |  |  |
| * S5-197065 | * Rel-16 CR 28.552 Add measured object NRCellRelation to the HO related measurements | * Intel Corporation SAS | * revised |  | * S5-197564 |
| * S5-197066 | * Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF | * Ericsson | * withdrawn |  |  |
| * S5-197067 | * Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF | * Ericsson | * withdrawn |  |  |
| * S5-197068 | * Add Architecture Considerations | * Openet Telecom | * noted |  |  |
| * S5-197069 | * pCR 28.313 D-SON PCI configuration use case | * Intel Corporation (UK) Ltd | * revised |  | * S5-197555 |
| * S5-197070 | * pCR 28.313 C-SON PCI configuration use case | * Intel Corporation (UK) Ltd, Huawei | * revised |  | * S5-197593 |
| * S5-197071 | * pCR 28.313 D-SON PCI configuration procedure | * Intel Corporation (UK) Ltd | * revised |  | * S5-197590 |
| * S5-197072 | * pCR 28.313 C-SON PCI configuration procedure | * Intel Corporation (UK) Ltd | * revised |  | * S5-197594 |
| * S5-197073 | * pCR 28.313 D-SON PCI configuration information | * Intel Corporation (UK) Ltd | * revised |  | * S5-197592 |
| * S5-197074 | * pCR 28.313 C-SON PCI configuration information | * Intel Corporation (UK) Ltd | * revised |  | * S5-197595 |
| * S5-197075 | * pCR 28.313 LBO use cases | * Intel Corporation (UK) Ltd | * revised |  | * S5-197596 |
| * S5-197076 | * pCR 28.313 LBO procedures | * Intel Corporation (UK) Ltd | * revised |  | * S5-197750 |
| * S5-197077 | * pCR 28.313 LBO information | * Intel Corporation (UK) Ltd | * revised |  | * S5-197751 |
| * S5-197078 | * pCR 28.861 cleanup | * Intel Corporation (UK) Ltd | * approved |  |  |
| * S5-197079 | * Correct NR TAC attribute property | * Ericsson LM | * agreed | * S5-196155 |  |
| * S5-197080 | * Correct NR TAC attribute property | * Ericsson LM | * revised | * S5-196241 | * S5-197754 |
| * S5-197081 | * CR Rel-15 28.532 v1530 correct event time defn | * Ericsson Inc. | * revised |  | * S5-197736 |
| * S5-197082 | * Correct event time defn | * Ericsson Inc. | * revised |  | * S5-197737 |
| * S5-197083 | * Add notifyAlert | * Ericsson Inc. | * revised |  | * S5-197740 |
| * S5-197084 | * New WID on end-to-end procedure of slicing management | * AsiaInfo | * noted | * S5-196575 |  |
| * S5-197085 | * Add configurable FM | * Ericsson Inc. | * withdrawn |  |  |
| * S5-197086 | * Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * revised |  | * S5-197725 |
| * S5-197087 | * Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * revised |  | * S5-197726 |
| * S5-197088 | * Rel-16 CR TS 28.533 Add example of utilization of MnS(s) for different network deployment scenarios | * Huawei | * withdrawn |  |  |
| * S5-197089 | * Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | * Huawei | * revised | * S5-196221 | * S5-197634 |
| * S5-197090 | * Rel-16 CR TS 28.541 Update on RRMPolicy | * Huawei | * merged | * S5-196223 | * S5-197638 |
| * S5-197091 | * pCR 28.812 Add the relation between IDMS and SON | * Huawei | * revised | * S5-196835 | * S5-197607 |
| * S5-197092 | * pCR 28.313 Add usecase and requirements for establishment of new NF in network | * Huawei,China Telecommunications | * revised | * S5-196362 | * S5-197551 |
| * S5-197093 | * pCR 28.812 Add the potential requirements for existing scenarios | * Huawei | * revised |  | * S5-197609 |
| * S5-197094 | * pCR 28.812 Add the potential requirements for intent lifecycle management | * Huawei | * revised |  | * S5-197610 |
| * S5-197095 | * pCR 28.812 Update area-based management scenario | * Huawei | * revised |  | * S5-197611 |
| * S5-197096 | * pCR 28.812 Add potential solution for area based radio network deployment | * Huawei | * revised |  | * S5-197612 |
| * S5-197097 | * pCR 28.812 Update clause 6.2 operation and notification for intent | * Huawei | * approved |  |  |
| * S5-197098 | * Discussion on potential ways for integration of ONAP and 3GPP MnS | * Huawei | * revised |  | * S5-197674 |
| * S5-197099 | * pCR 28.313 Add procedures for establishment of new NE in network | * Huawei,China Telecommunications | * revised |  | * S5-197586 |
| * S5-197100 | * Rel-16 CR TS 28.541 Update on slice model | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * revised | * S5-196642 | * S5-197621 |
| * S5-197101 | * Rel-16 CR TS 28.541 Update XML definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * revised |  | * S5-197589 |
| * S5-197102 | * Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * revised |  | * S5-197622 |
| * S5-197103 | * Rel-16 CR 32.255 Adding I-SMF triggers related actions in SMF | * Ericsson | * revised |  | * S5-197507 |
| * S5-197104 | * Rel-16 CR TS 28.533 Some correction on the reference in Clause 5.3 | * Huawei Technologies Japan K.K. | * agreed |  |  |
| * S5-197105 | * Add managedNFProfile definition for ngc NRM - stage3 | * CATT | * revised |  | * S5-197757 |
| * S5-197106 | * Concept clarification for Network Slice | * Nokia Korea | * noted |  |  |
| * S5-197107 | * Rel-15 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197529 |
| * S5-197108 | * Rel-16 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197530 |
| * S5-197109 | * Rel-15 CR 32.298 Correction of abnormal release trigger | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * S5-197110 | * Rel-16 CR 32.298 Correction of abnormal release trigger | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * S5-197111 | * Rel-16 pCR 32.256 Solve Editor's Note on new triggers activation by CHF | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197487 |
| * S5-197112 | * Rel-16 pCR 32.256 Solve Editor's Note Multiple Unit Usage | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197488 |
| * S5-197113 | * Rel-16 pCR 32.256 Introduce PSCELL in location charging | * Nokia, Nokia Shanghai Bell | * approved |  |  |
| * S5-197114 | * Rel-16 pCR 32.256 Remove Editor's Note event offline scenario | * Nokia, Nokia Shanghai Bell | * approved |  |  |
| * S5-197115 | * Rel-16 pCR 32.256 Update Registration Charging Information IEs | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197489 |
| * S5-197116 | * Rel-16 pCR 32.256 Introduce Message flows for roaming | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197490 |
| * S5-197117 | * Rel-16 pCR 32.256 Introduce Charging information for roaming | * Nokia, Nokia Shanghai Bell | * approved |  |  |
| * S5-197118 | * Rel-16 CR 32.298 Introduce AMF CHF CDRs | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197493 |
| * S5-197119 | * Rel-16 CR 32.291 Introduce OpenAPI for AMF charging | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * S5-197120 | * Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging | * Nokia, Nokia Shanghai Bell | * revised | * S5-196253 | * S5-197492 |
| * S5-197121 | * Rel-16 CR TS 28.540 Update the requirements for remote interference management | * Huawei | * withdrawn |  |  |
| * S5-197122 | * Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management | * Huawei | * not pursued |  |  |
| * S5-197123 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * revised |  | * S5-197644 |
| * S5-197124 | * Rel-15 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * revised |  | * S5-197531 |
| * S5-197125 | * pCR 28.313 Add procedures for establishment of new NE in network | * Huawei | * withdrawn |  |  |
| * S5-197126 | * pCR 28.313 Add use case for NCR remove blacklisting and whitelisting | * Huawei | * noted |  |  |
| * S5-197127 | * pCR 28.313 Update the requirements for ANR management in NG-RAN | * Huawei | * revised |  | * S5-197552 |
| * S5-197128 | * pCR 28.313 Add solutions for ANR management | * Huawei | * revised |  | * S5-197553 |
| * S5-197129 | * pCR 28.313 Use case for Centralized PCI configuration | * Huawei | * merged |  | * S5-197791 |
| * S5-197130 | * pCR 28.313 Requirements for Centralized PCI configuration | * Huawei | * merged |  | * S5-197791 |
| * S5-197131 | * pCR TS 28.313 Solutions for centriliazed PCI configuration | * Huawei | * withdrawn |  |  |
| * S5-197132 | * pCR 28.313 Use case for distributed PCI configuration | * Huawei | * noted |  | * - |
| * S5-197133 | * pCR 28.313 Requirements for distributed PCI configuration | * Huawei | * revised |  | * S5-197591 |
| * S5-197134 | * pCR TS 28.313 Solutions for distributed PCI configuration | * Huawei | * withdrawn |  |  |
| * S5-197135 | * Rel-16 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * revised |  | * S5-197532 |
| * S5-197136 | * Resubmitted LS from RAN3 Reply on radio resource management policy | * R3-194550 | * replied to |  |  |
| * S5-197137 | * Resubmitted LS from RAN2 to SA5 on radio resource management policy | * R2-1911791 | * replied to |  |  |
| * S5-197138 | * Resubmitted Ls from RAN3 Reply on User Data Congestion Analytics | * R3-194749 | * postponed |  |  |
| * S5-197139 | * Resubmitted reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing | * S6-191841 | * noted |  |  |
| * S5-197140 | * Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | * GSMA | * replied to |  |  |
| * S5-197141 | * Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | * ITU-T SG2 | * replied to |  |  |
| * S5-197142 | * Resubmitted LS/r on Energy Efficiency on 5G (3GPP TSG SA5-S5-195667) | * ITU-T SG5 | * noted |  |  |
| * S5-197143 | * Resubmitted LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations | * ETSI TC LI | * replied to |  |  |
| * S5-197144 | * Reply LS to SA5 on PDCP end user throughput measurements | * R2-1914089 | * noted |  |  |
| * S5-197145 | * Reply LS to SA5 on User Data Congestion Analytics | * S2-1910210 | * postponed |  |  |
| * S5-197146 | * LS Reply to SA5 on Introduction of CHF Address from PCF | * S2-1910224 | * replied to |  |  |
| * S5-197147 | * Reply LS ccSA5 on LS on the IAB-indication to core network | * S2-1910281 | * noted |  |  |
| * S5-197148 | * LS to SA5 on whether new 5QI needs for IAB OAM traffic | * S2-1910347 | * replied to |  |  |
| * S5-197149 | * Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2 | * S2-1910807 | * replied to |  |  |
| * S5-197150 | * Reply LS to SA5 on QoE Measurement Collection | * S4-191234 | * replied to |  |  |
| * S5-197151 | * LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * O-RAN | * replied to |  |  |
| * S5-197152 | * Add attribute to describe different types of isolation for network slice | * China Mobile | * withdrawn |  |  |
| * S5-197153 | * Add attributes for network slice supports IMS and SSC mode | * China Mobile | * withdrawn |  |  |
| * S5-197154 | * Revision of SA5 ToR - charging part | * CH SWG Chair | * revised |  | * S5-197482 |
| * S5-197155 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * revised |  | * S5-197600 |
| * S5-197156 | * Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * revised |  | * S5-197738 |
| * S5-197157 | * Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * revised |  | * S5-197739 |
| * S5-197158 | * 15 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * revised |  | * S5-197722 |
| * S5-197159 | * Rel-16 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * revised |  | * S5-197723 |
| * S5-197160 | * Discussion about MnS instance discovery | * Huawei | * noted |  |  |
| * S5-197161 | * Rel-16 CR TS 28.533 Get MnS instance URI | * Huawei | * revised |  | * S5-197603 |
| * S5-197162 | * Rel-16 CR TS 28.532 Discover MnS instance | * Huawei | * revised |  | * S5-197604 |
| * S5-197163 | * Rel-16 CR TS 28.532 Add stage 2 and 3 for MnS discovery service | * Huawei | * not pursued |  |  |
| * S5-197164 | * Discussion paper about multi-tenancy use cases in 3GPP management system | * Huawei | * revised |  | * S5-197576 |
| * S5-197165 | * Rel-16 CR TS 28.541 Add tenant information to support multiple tenants environment | * Huawei | * revised |  | * S5-197577 |
| * S5-197166 | * Rel-16 CR TS 28.545 Enhance fault management service for tenant support | * Huawei | * not pursued |  |  |
| * S5-197167 | * Rel-16 CR TS 28.550 Enhance performance management service for tenant support | * Huawei | * not pursued |  |  |
| * S5-197168 | * Update SEPP Stage 2 definition in 5GC NRM | * Nokia Korea | * agreed | * S5-196843 |  |
| * S5-197169 | * Update definition of attributes related to RRMPolicy | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197639 |
| * S5-197170 | * Update definition of attributes related to RRMPolicy | * Nokia, Nokia Shanghai Bell | * merged |  | * S5-197638 |
| * S5-197171 | * Fix merging errors of the specification | * Nokia, Nokia Shanghai Bell | * agreed | * S5-196468 |  |
| * S5-197172 | * Rel-16 pCR TR 32.845 Remove the editor's note about capacity based charging | * Huawei | * revised |  | * S5-197525 |
| * S5-197173 | * Discussion paper on charging information | * Huawei | * noted |  |  |
| * S5-197174 | * Rel-16 pCR 28.201 Add high level 5G System architecture to clause 4.1 | * Huawei | * revised |  | * S5-197516 |
| * S5-197175 | * Rel-16 pCR 28.201 Add charging architecture to clause 4.1 | * Huawei | * merged |  | * S5-197517 |
| * S5-197176 | * Rel-16 pCR 28.201 Add charging requirements to clause 5.1 | * Huawei | * revised |  | * S5-197519 |
| * S5-197177 | * Rel-16 pCR 28.201 Add information description to clause 5.1 | * Huawei | * revised |  | * S5-197520 |
| * S5-197178 | * Rel-16 pCR 28.201 Add discovery and selection to clause 5.1 | * Huawei | * revised |  | * S5-197521 |
| * S5-197179 | * Rel-16 pCR 28.201 Add service consumer | * Huawei | * noted |  |  |
| * S5-197180 | * Rel-16 pCR 28.201 Add basic principles to clause 5.2 | * Huawei | * revised |  | * S5-197522 |
| * S5-197181 | * Rel-16 pCR 28.201 Add applicable triggers to clause 5.2 | * Huawei | * noted |  |  |
| * S5-197182 | * Rel-16 pCR 28.201 Add NWDAF message flows to clause 5.2 | * Huawei | * noted |  |  |
| * S5-197183 | * Rel-16 pCR 28.201 Add message flow | * Huawei | * noted |  |  |
| * S5-197184 | * Rel-16 pCR 28.201 Add CDR generation to clause 5.2 | * Huawei | * revised |  | * S5-197523 |
| * S5-197185 | * Rel-16 CR 32.260 CHF selection for IMS charging | * Huawei | * revised |  | * S5-197500 |
| * S5-197186 | * Rel-16 CR 32.260 IMS charging general description | * Huawei | * revised |  | * S5-197501 |
| * S5-197187 | * Rel-16 CR 32.260 IMS charging trigger | * Huawei | * revised |  | * S5-197502 |
| * S5-197188 | * Rel-16 CR 32.255 Add I-SMF charging message flow | * Huawei | * merged |  | * S5-197506 |
| * S5-197189 | * Rel-16 CR 32.255 Add CDR trigger condition for change of I-SMF | * Huawei | * revised |  | * S5-197509 |
| * S5-197190 | * Rel-16 CR 32.255 Add charging ID assigned by SMF with I-SMF | * Huawei | * revised |  | * S5-197510 |
| * S5-197191 | * Rel-16 CR 28.532 RESTful PM file-based notifications for integration with ONAP VES | * AT&T, Ericsson, Orange | * not pursued |  |  |
| * S5-197192 | * Rel-15 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * revised |  | * S5-197533 |
| * S5-197193 | * Rel-15 CR 32.298 Addition of Furnish Charging Information | * Huawei | * revised |  | * S5-197537 |
| * S5-197194 | * Rel-15 CR 32.255 Addition of Furnish Charging Information | * Huawei | * revised |  | * S5-197535 |
| * S5-197195 | * Rel-15 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * revised |  | * S5-197655 |
| * S5-197196 | * Rel-15 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * revised |  | * S5-197539 |
| * S5-197197 | * Rel-15 CR 32.290 Correction on Notify response | * Huawei | * revised |  | * S5-197657 |
| * S5-197198 | * Rel-15 CR 32.291 Correction on Notify response | * Huawei | * revised |  | * S5-197659 |
| * S5-197199 | * Rel-15 CR 32.255 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197200 | * Rel-15 CR 32.290 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197201 | * Rel-15 CR 32.291 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197202 | * Rel-15 CR 32.298 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197203 | * Rel-15 CR 32.274 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197204 | * Rel-15 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * revised |  | * S5-197694 |
| * S5-197205 | * Rel-15 CR 32.255 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197206 | * Rel-15 CR 32.274 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197207 | * Rel-15 CR 32.290 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197208 | * Rel-15 CR 32.291 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197209 | * Rel-15 CR 32.291 Correction on the Resource URI | * Huawei | * revised |  | * S5-197663 |
| * S5-197210 | * Rel-15 CR 32.255 Add the access type | * Huawei | * not pursued |  |  |
| * S5-197211 | * Rel-15 CR 32.291 Add the access type | * Huawei | * not pursued |  |  |
| * S5-197212 | * Rel-15 CR 32.298 Add the access type | * Huawei | * not pursued |  |  |
| * S5-197213 | * Rel-15 CR 32.274 Correction on Applicable Triggers in the SMSF | * Huawei | * revised |  | * S5-197693 |
| * S5-197214 | * Rel-15 CR 32.274 Correction on SMS Submission - ECUR flow | * Huawei | * revised |  | * S5-197692 |
| * S5-197215 | * Rel-16 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * not pursued |  | * S5-197534 |
| * S5-197216 | * Rel-16 CR 32.298 Addition of Furnish Charging Information | * Huawei | * revised |  | * S5-197538 |
| * S5-197217 | * Rel-16 CR 32.255 Addition of Furnish Charging Information | * Huawei | * revised |  | * S5-197536 |
| * S5-197218 | * Rel-16 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * revised |  | * S5-197656 |
| * S5-197219 | * Rel-16 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * revised |  | * S5-197654 |
| * S5-197220 | * Rel-16 CR 32.290 Correction on Notify response | * Huawei | * revised |  | * S5-197658 |
| * S5-197221 | * Rel-16 CR 32.291 Correction on Notify response | * Huawei | * revised |  | * S5-197660 |
| * S5-197222 | * Rel-16 CR 32.255 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197223 | * Rel-16 CR 32.290 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197224 | * Rel-16 CR 32.291 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197225 | * Rel-16 CR 32.298 Clarify the Category in message format | * Huawei | * not pursued |  |  |
| * S5-197226 | * Rel-16 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * revised |  | * S5-197695 |
| * S5-197227 | * Rel-16 CR 32.255 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197228 | * Rel-16 CR 32.290 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197229 | * Rel-16 CR 32.291 Add the uniqueness message identifier | * Huawei | * not pursued |  |  |
| * S5-197230 | * Rel-16 CR 32.291 Correction on the Resource URI | * Huawei | * revised |  | * S5-197664 |
| * S5-197231 | * Rel-16 CR 32.255 Add the access type | * Huawei | * not pursued |  |  |
| * S5-197232 | * Rel-16 CR 32.291 Add the access type | * Huawei | * not pursued |  |  |
| * S5-197233 | * Rel-16 CR 32.298 Add the access type | * Huawei | * not pursued |  |  |
| * S5-197234 | * Rel-16 CR 32.298 Add the Qos Characteristics | * Huawei | * revised |  | * S5-197686 |
| * S5-197235 | * Rel-16 CR 32.290 Add the group id for CHF registration | * Huawei | * revised |  | * S5-197687 |
| * S5-197236 | * YANG\_Netconf CM Notifications | * Ericsson España S.A. | * revised | * S5-196449 | * S5-197717 |
| * S5-197237 | * LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * O-RAN Alliance | * replied to |  |  |
| * S5-197238 | * Rel-16 CR TS 32.421 terminology clean-up | * Nokia Japan | * revised |  | * S5-197570 |
| * S5-197239 | * Rel-16 CR 32.298 Correction of handover triggers | * Nokia, Nokia Shanghai Bell | * not pursued |  |  |
| * S5-197240 | * Rel-16 CR TS 28.550 Add UC and requirements for KPI job control | * China Telecommunications, ZTE | * withdrawn |  |  |
| * S5-197241 | * Rel-16 CR TS 32.422 new references | * Nokia Japan | * agreed |  |  |
| * S5-197242 | * Add already approved missing requirement from TSG WD SA5#127 from use case for creation of a network slice instance associated with a Satellite RAN and a Terrestrial RAN | * THALES (Rapporteur), TNO | * approved |  |  |
| * S5-197243 | * Rel-16 CR TS 32.422 addition of general management activation mechanisms for 5GS | * Nokia Japan | * agreed |  |  |
| * S5-197244 | * pCR 28.313 Add Concept for Establishment of new NE in network | * China Telecommunications, Huawei | * withdrawn |  |  |
| * S5-197245 | * Rel-16 CR TS addition of general signalling activation mechanisms for 5GS | * Nokia Japan | * agreed |  |  |
| * S5-197246 | * LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197495 |
| * S5-197247 | * YANG\_Netconf Operations | * Ericsson España S.A. | * revised | * S5-196791 | * S5-197718 |
| * S5-197248 | * Rel-16 CR TS 32.422 Update 5GS deactivation mechanisms | * Nokia Japan | * agreed |  |  |
| * S5-197249 | * Discussion paper on resolution of Editors note in TS 32.160 clause W4.3 | * L.M. Ericsson Limited | * noted |  |  |
| * S5-197250 | * CR Rel-16 32.160 Resolution of Editors Note in clause W4.3 Class definitions | * L.M. Ericsson Limited | * revised |  | * S5-197744 |
| * S5-197251 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * revised |  | * S5-197743 |
| * S5-197252 | * Rel-16 CR TS 32.422 update trace recording session start-stop | * Nokia Japan | * agreed |  |  |
| * S5-197253 | * Additions to YANG style Guide | * Ericsson España S.A. | * revised |  | * S5-197719 |
| * S5-197254 | * Rel-16 CR TS 32.422 update trace configuration parameters | * Nokia Japan | * revised |  | * S5-197587 |
| * S5-197255 | * Discussion on options for integrating 3GPP fault notifications into ONAP VES | * AT&T, Orange | * merged |  | * S5-197776 |
| * S5-197256 | * Rel-16 CR TS 32.422 add streaming trace reporting description | * Nokia Japan | * revised |  | * S5-197588 |
| * S5-197257 | * Rel-16 CR 32.255 Adding I-SMF controlled UPF triggers & related actions in SMF | * Ericsson | * revised |  | * S5-197508 |
| * S5-197258 | * Rel-16 CR 32.291 Adding I-SMF Identifier | * Ericsson | * not pursued |  |  |
| * S5-197259 | * Rel-16 CR 32.291 adding I-SMF controlled UPF information | * Ericsson | * not pursued |  |  |
| * S5-197260 | * Rel-16 CR 32.291 adding I-SMF related trigger type | * Ericsson | * revised |  | * S5-197511 |
| * S5-197261 | * Rel-16 CR 32.298 adding I-SMF related SMFTrigger | * Ericsson | * revised |  | * S5-197514 |
| * S5-197262 | * Add support of Configurable FM | * Ericsson LM | * not pursued | * S5-196598 |  |
| * S5-197263 | * pCR 28.313 Add use case and requirements for cross-slice network resource optimization | * KPN N.V. | * noted |  |  |
| * S5-197264 | * MF-ME relation with VNF | * Ericsson Inc. | * revised |  | * S5-197645 |
| * S5-197265 | * Rel-16 CR 32.291 Add data type for I-SMF | * Huawei | * revised |  | * S5-197512 |
| * S5-197266 | * Rel-16 CR 32.291 Add trigger types in the schema for I-SMF | * Huawei | * merged |  | * S5-197511 |
| * S5-197267 | * Rel-16 CR 32.298 Add trigger types in abstract syntax definition of CHF-CDR for I-SMF | * Huawei | * merged |  | * S5-197514 |
| * S5-197268 | * Rel-15 CR 32.291 Clarify the QoS change trigger | * Huawei | * revised | * S5-196622 | * S5-197665 |
| * S5-197269 | * Rel-16 CR 32.291 Clarify the QoS change trigger | * Huawei | * revised | * S5-196623 | * S5-197666 |
| * S5-197270 | * Add attribute properties for network slice supports IMS and SSC mode | * China Mobile | * withdrawn |  |  |
| * S5-197271 | * Add attribute to describe different types of isolation for network slice | * China Mobile | * withdrawn |  |  |
| * S5-197272 | * Add requirements of network slicing management for creation of a network slice instance or network slice subnet instance according to the template | * China Mobile | * withdrawn |  |  |
| * S5-197273 | * Add requirements of network slicing management for activation or deactivation of a communication service supported in the network slice instance | * China Mobile | * withdrawn |  |  |
| * S5-197274 | * Rel-15 CR TS 28.622 update the definition of attribute measurementsList | * ZTE Corporation, Ericsson | * revised |  | * S5-197733 |
| * S5-197275 | * Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs | * ZTE Corporation, Ericsson | * agreed |  |  |
| * S5-197276 | * Rel-15 CR TS 28.623 update the definition of attribute measurementsList | * ZTE Corporation | * revised |  | * S5-197734 |
| * S5-197277 | * Rel-16 CR TS 28.623 Add the definition of attribute measurementsList | * ZTE Corporation | * revised |  | * S5-197735 |
| * S5-197278 | * Rel-16 CR TS 28.550 Enhace performance data report related operations | * ZTE Corporation, China Telecom | * revised |  | * S5-197572 |
| * S5-197279 | * Rel-16 CR TS 28.622 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * revised |  | * S5-197573 |
| * S5-197280 | * Rel-16 CR TS 28.623 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * revised |  | * S5-197574 |
| * S5-197281 | * Rel-15 CR 32.291 Add Session-AMBR change trigger | * Huawei | * revised |  | * S5-197667 |
| * S5-197282 | * Rel-16 CR 32.291 Add Session-AMBR change trigger | * Huawei | * revised |  | * S5-197668 |
| * S5-197283 | * Add attribute properties for network slice supports IMS and SSC mode | * China Mobile | * revised |  | * S5-197474 |
| * S5-197284 | * Add attribute properties for attribute isolationLevel,physicalIsolation and logicalIsolation | * China Mobile | * revised |  | * S5-197475 |
| * S5-197285 | * Overview of the 5G specification structure | * HiSilicon Technologies Co. Ltd | * revised |  | * S5-197548 |
| * S5-197286 | * Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | * China Telecommunications, ZTE | * revised | * S5-196853 | * S5-197571 |
| * S5-197287 | * Potential Rel-17 SA5 OAM work area | * HiSilicon Technologies Co. Ltd | * revised |  | * S5-197549 |
| * S5-197288 | * Rel-15 CR 32.298 Correction on unused quota timer | * Huawei | * revised |  | * S5-197669 |
| * S5-197289 | * Rel-16 CR 32.298 Correction on unused quota timer | * Huawei | * agreed |  |  |
| * S5-197290 | * pCR 28.311 Add information Object Classes | * China Mobile Com. Corporation | * revised | * S5-196656 | * S5-197615 |
| * S5-197291 | * Correct Network slice NRM | * CATT | * revised |  | * S5-197724 |
| * S5-197292 | * pCR 28.311 Add XML definition | * China Mobile Com. Corporation | * revised |  | * S5-197618 |
| * S5-197293 | * pCR 28.313 Add Concept for Establishment of new NE in network | * China Telecommunications, Huawei | * revised | * S5-196400 | * S5-197602 |
| * S5-197294 | * pCR 28.311 Add SOAP Solutions Set | * China Mobile Com. Corporation | * revised |  | * S5-197619 |
| * S5-197295 | * Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | * HUAWEI TECHNOLOGIES Co. Ltd. | * revised | * S5-196850 | * S5-197580 |
| * S5-197296 | * Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | * Huawei, ZTE, China Telecom | * revised |  | * S5-197575 |
| * S5-197297 | * Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge | * Samsung Electronics France SA | * revised | * S5-196537 | * S5-197608 |
| * S5-197298 | * pCR 28.809 Update the overview descriptions of MDAS | * Huawei | * revised |  | * S5-197707 |
| * S5-197299 | * pCR 28.809 Update the use case of RAN user plane congestion | * Huawei | * revised |  | * S5-197709 |
| * S5-197300 | * pCR 28.809 Update the use case of coverage issue analysis | * Huawei | * merged |  | * S5-197710 |
| * S5-197301 | * pCR 28.809 Add the use case of E2E latency analysis as one of the SLS assurance related issues | * Huawei | * revised |  | * S5-197714 |
| * S5-197302 | * pCR 28.809 Add the use case of alarm incident analysis as one of the fault management related issues | * Huawei | * revised |  | * S5-197712 |
| * S5-197303 | * Revised WID on network policy management for mobile networks based on NFV scenarios | * China Mobile Com. Corporation | * revised | * S5-196834 | * S5-197616 |
| * S5-197304 | * pCR TS 28.535 Add concepts related to close loop assurance | * HiSilicon Technologies Co. Ltd | * merged |  | * S5-197583 |
| * S5-197305 | * Presentation of TS 28.311 for Information and approval to SA#86 | * China Mobile Com. Corporation | * revised |  | * S5-197620 |
| * S5-197306 | * Living document of review of GSMA GST SA5#128 | * Huawei, China Mobile | * revised |  | * S5-197629 |
| * S5-197307 | * LS out on GSMA GST | * Huawei, China Mobile | * revised |  | * S5-197630 |
| * S5-197308 | * pCR 28.310 Cleanup proposal | * Huawei, Orange | * approved |  |  |
| * S5-197309 | * pCR 28.535 Interaction with core network for service assurance | * Huawei | * revised |  | * S5-197584 |
| * S5-197310 | * pCR 28.535 use case for obtaining resource requirements for a communication service | * Huawei | * revised |  | * S5-197585 |
| * S5-197311 | * pCR 28.535 Add analytics scenario introduction | * Huawei | * noted | * S5-196267 | * S5-197747 |
| * S5-197312 | * pCR 28.807 Clean-up for roles related to NPN management | * Huawei | * revised |  | * S5-197557 |
| * S5-197313 | * pCR 28.807 Clarification on NPN use cases | * Huawei | * approved |  |  |
| * S5-197314 | * pCR 28.807 Add potential requirements for management of NPN | * Huawei | * revised |  | * S5-197558 |
| * S5-197315 | * Network sharing with NPN | * Huawei | * noted |  |  |
| * S5-197316 | * LS on network sharing with non-public networks | * Huawei | * revised |  | * S5-197559 |
| * S5-197317 | * pCR 28.807 Add clauses for solutions and conclusions | * Huawei | * revised |  | * S5-197563 |
| * S5-197318 | * CAG management | * Huawei | * noted |  |  |
| * S5-197319 | * LS on CAG | * Huawei | * revised |  | * S5-197560 |
| * S5-197320 | * TD tenant information to support multi-tenancy environment | * Nokia, Nokia Shanghai Bell | * noted |  | * - |
| * S5-197321 | * Update Stage 3 SEPP definition in 5GC NRM | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * S5-197322 | * Rel-16 CR TS 28.552 Packet Drop Rate measurements update | * Ericsson LM,Verizon | * revised |  | * S5-197566 |
| * S5-197323 | * Rel-16 CR TS 28.552 Packet Loss Rate measurements update | * Ericsson LM,Verizon | * revised |  | * S5-197567 |
| * S5-197324 | * pCR 28.809 Add UC on handover optimization | * Samsung Electronics GmbH | * revised |  | * S5-197713 |
| * S5-197325 | * Rel-16 CR TS 28.552 PDCP Data Volume measurements update | * Ericsson LM,Verizon | * revised |  | * S5-197568 |
| * S5-197326 | * Add use case for multi-RAT load-balancing associated with a Satellite RAN and a Terrestrial RAN | * ETRI | * approved |  |  |
| * S5-197327 | * Rel15 Refine NRM JSON structure | * Nokia, Nokia Shanghai Bell | * not pursued |  |  |
| * S5-197328 | * pCR 28.535 Add UC on analytical data enablement | * Samsung Electronics GmbH | * not pursued |  | * - |
| * S5-197329 | * Rel-16 CR TS 28.552 UE Throughput measurements update | * Ericsson LM,Verizon | * revised |  | * S5-197569 |
| * S5-197330 | * pCR 28.810 addition of multi-domain/layer/technology orchestration automation use case and requirement | * ETRI | * revised |  | * S5-197701 |
| * S5-197331 | * Rel16 Refine NRM JSON structure | * Nokia, Nokia Shanghai Bell | * not pursued |  |  |
| * S5-197332 | * Add use case and definitions of UL user plane packet delay measurement from UE to UPF | * ETRI | * not pursued |  |  |
| * S5-197333 | * Rel-16 CR TS 28.540 Add requirement on NR active antenna system (AAS) configuration | * Ericsson LM | * revised |  | * S5-197598 |
| * S5-197334 | * Rel-16 CR TS 28.541 Add NRM Info Model definitions for active antenna systems (AAS) | * Ericsson LM | * merged |  | * S5-197642 |
| * S5-197335 | * Rel-16 pCR 32.256 Align detailed message format for charging information | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197491 |
| * S5-197336 | * Rel-16 draftCR 32.255 Add 5WWC architecture diagram | * Huawei | * revised |  | * S5-197688 |
| * S5-197337 | * Rel-16 draftCR 32.255 Add 5WWC charging requirements | * Huawei | * revised |  | * S5-197689 |
| * S5-197338 | * Rel-16 draftCR 32.255 Add precedure for 5G RG scenario | * Huawei | * revised |  | * S5-197690 |
| * S5-197339 | * Rel-16 draftCR 32.255 Add precedure for FN RG scenario | * Huawei | * not treated |  |  |
| * S5-197340 | * Rel-16 draftCR 32.255 Add handover of a PDU Session for 5G RG | * Huawei | * not treated |  |  |
| * S5-197341 | * Rel-16 draftCR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | * Huawei | * revised |  | * S5-197691 |
| * S5-197342 | * Rel-16 draftCR 32.255 Add description on charging information | * Huawei | * not treated |  |  |
| * S5-197343 | * Rel-16 pCR 28.202 Introduce Scope and references | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * S5-197344 | * Rel-16 pCR 28.202 Introduce Architecture | * Nokia, Nokia Shanghai Bell | * noted |  |  |
| * S5-197345 | * Rel-16 pCR 28.202 Introduce Charging principles | * Nokia, Nokia Shanghai Bell | * not treated |  |  |
| * S5-197346 | * Revised WID on energy efficiency of 5G | * Orange | * revised |  | * S5-197613 |
| * S5-197347 | * pCR 28.311 Rewrite Interface definition | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197348 | * Rel-16 pCR TS 28.201 Add high level description | * Huawei | * withdrawn |  |  |
| * S5-197349 | * Rel-16 pCR TS 28.201 Add high level description | * Huawei | * revised |  | * S5-197518 |
| * S5-197350 | * Rel-15 CR 32.291 Correction to tariffTimeChange with UTC format | * Ericsson | * not treated |  |  |
| * S5-197351 | * pCR 28.810 Add concept of network autonomy | * Huawei, China Mobile, China Unicom, ZTE | * revised |  | * S5-197677 |
| * S5-197352 | * pCR 28.810 Add concept of network autonomy level | * Huawei, China Mobile, China Unicom, ZTE | * revised |  | * S5-197678 |
| * S5-197353 | * pCR 28.810 pCR 28.810 Add potential dimensions for classification of network autonomy level | * Huawei, China Mobile, China Unicom, ZTE | * revised |  | * S5-197745 |
| * S5-197354 | * pCR 28.810 Add coverage optimization scenario exampe for classification of network autonomy levels | * Huawei, China Mobile, China Unicom, ZTE | * revised |  | * S5-197703 |
| * S5-197355 | * pCR 28.810 Add NE deployment scenario exampe for classification of network autonomy levels | * Huawei, China Mobile, China Unicom, ZTE | * revised |  | * S5-197704 |
| * S5-197356 | * Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS | * China Mobile Com. Corporation | * revised |  | * S5-197483 |
| * S5-197357 | * Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197358 | * Rel-16 CR 32.251 Add Caller and Callee information | * China Mobile Com. Corporation | * revised |  | * S5-197484 |
| * S5-197359 | * discussion on introducing network data analysis for wireless energy saving | * China Telecom Corporation Ltd., CATT | * revised |  | * S5-197679 |
| * S5-197360 | * Rel-16 CR 32.291 Correction to tariffTimeChange with UTC format | * Ericsson | * not treated |  |  |
| * S5-197361 | * Rel-16 CR 32.298 Add Caller and Callee information | * China Mobile Com. Corporation | * revised |  | * S5-197485 |
| * S5-197362 | * Rel-16 CR 32.299 Add Caller and Callee information | * China Mobile Com. Corporation | * revised |  | * S5-197486 |
| * S5-197363 | * SA5#128\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM | * SA5 Vice Chairman (Huawei) | * noted |  |  |
| * S5-197364 | * LS to SA2 on Energy Efficiency of 5G | * China Telecom Corporation Ltd. | * noted |  |  |
| * S5-197365 | * Rel-16 CR 32.291 Addition of binding for exposure function northbound API | * Ericsson | * revised |  | * S5-197496 |
| * S5-197366 | * Rel-16 CR 32.298 adding I-SMF controlled UPF information | * Ericsson | * not pursued |  |  |
| * S5-197367 | * Rel-16 CR 32.291 Addition of attributes in yaml for exposure function northbound API | * Ericsson | * revised |  | * S5-197497 |
| * S5-197368 | * Rel-16 CR 32.298 Addition of CHF CDR for exposure function northbound API | * Ericsson | * agreed |  |  |
| * S5-197369 | * Rel-16 CR 32.275 Addition of converged flows for TIP, TIR, HOLD and CB | * Ericsson | * not pursued |  |  |
| * S5-197370 | * Rel-16 CR 32.281 Addition of converged flows | * Ericsson | * not pursued |  |  |
| * S5-197371 | * pCR 28.311 Rewrite interface identifaction | * China Mobile Com. Corporation | * revised |  | * S5-197617 |
| * S5-197372 | * Rel-16 CR 32.255 Adding ETSUN architecture with I-SMF insertion | * Ericsson | * agreed | * S5-196427 |  |
| * S5-197373 | * Rel-16 pCR 28.201 Architecture considerations | * Ericsson | * revised |  | * S5-197517 |
| * S5-197374 | * Rel-16 pCR 28.202 Architecture considerations | * Ericsson | * noted |  |  |
| * S5-197375 | * Rel-16 Discussion on quota management control | * Ericsson | * not treated |  |  |
| * S5-197376 | * Rel-15 CR 32.290 Correction to NF consumer identification | * Ericsson | * revised |  | * S5-197670 |
| * S5-197377 | * Rel-16 CR 32.290 Correction to NF consumer identification | * Ericsson | * revised |  | * S5-197671 |
| * S5-197378 | * Rel-15 CR 32.291 Correction to NF consumer identification | * Ericsson | * agreed |  |  |
| * S5-197379 | * Rel-16 CR 32.291 Correction to NF consumer identification | * Ericsson | * agreed |  |  |
| * S5-197380 | * Rel-15 CR 32.298 Correction to NF consumer identification | * Ericsson | * revised |  | * S5-197672 |
| * S5-197381 | * Rel-16 CR 32.298 Correction to NF consumer identification | * Ericsson | * revised |  | * S5-197673 |
| * S5-197382 | * pCR 28.808 Add solution to allow a network slice instance to be associated with both a Satellite RAN and a Terrestrial RAN | * TNO | * revised |  | * S5-197579 |
| * S5-197383 | * Terms correction for 5G energy saving | * Ericsson France S.A.S | * revised |  | * S5-197614 |
| * S5-197384 | * Add background of relevant study in other SDOs or industry parties | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197385 | * Rel-15 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * revised |  | * S5-197681 |
| * S5-197386 | * Add heartbeat NRM fragment | * Ericsson Inc., Nokia, Nokia Shanghai Bell, Orange | * merged |  | * S5-197646 |
| * S5-197387 | * Rel-16 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * revised |  | * S5-197682 |
| * S5-197388 | * Add significance for levels of autonomous network | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197389 | * Rel-15 CR 32.255 Correction of charging rule base name | * Ericsson | * revised |  | * S5-197683 |
| * S5-197390 | * Rel-16 CR 32.255 Correction of charging rule base name | * Ericsson | * revised |  | * S5-197684 |
| * S5-197391 | * Add NPN management use cases | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197392 | * Rel-16 CR 32.290 Definition of state machine | * Ericsson | * noted | * S5-196380 |  |
| * S5-197393 | * Rel-16 CR 32.290 Correction of redirect at termination | * Ericsson | * not pursued | * S5-196381 |  |
| * S5-197394 | * Add potential solution for network autonomy level | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197395 | * Add potential requirements for management of NPN | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197396 | * WI\_Exception\_Management Aspects of 5G Service-Level Agreement | * China Mobile E-Commerce Co. | * revised |  | * S5-197633 |
| * S5-197397 | * Add fault RCA and recovery scenario example for network autonomy level | * China Mobile Com. Corporation | * withdrawn |  |  |
| * S5-197398 | * Rel-16 CR 32.533 Introduce a MnS profile | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197606 |
| * S5-197399 | * Rel-16 CR 32.533 Add MnS discovery | * Nokia, Nokia Shanghai Bell | * not pursued |  | * - |
| * S5-197400 | * TD Using feature identifiers in MnS profiles | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197746 |
| * S5-197401 | * Rel-16 CR 28.622 Add heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell. Orange | * revised |  | * S5-197646 |
| * S5-197402 | * Rel-16 CR 28.622 Add subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * revised |  | * S5-197649 |
| * S5-197403 | * Rel-16 CR 28.541 Add NRM fragment for resource allocation and deallocation | * Nokia, Nokia Shanghai Bell | * not pursued |  | * - |
| * S5-197404 | * Add Automatic CSI to NSI mapping use case | * China Mobile E-Commerce Co. | * revised |  | * S5-197626 |
| * S5-197405 | * Rel-16 CR 28.531 Update allocation and deallocation procedures | * Nokia, Nokia Shanghai Bell | * not pursued |  | * - |
| * S5-197406 | * Add description of communication service lifecycle prepareation phase | * CCSA | * withdrawn |  |  |
| * S5-197407 | * Modification to the existed provisioning procedure after considering SLA requirements | * China Mobile E-Commerce Co | * not pursued |  | * - |
| * S5-197408 | * Rel-16 CR 32.291 Correction OpenAPI syntax | * Nokia, Nokia Shanghai Bell | * agreed |  |  |
| * S5-197409 | * Rel-16 CR 32.533 Clarify numerous definitions | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197728 |
| * S5-197410 | * Add attribute properties for isolationLevelCN, isolationLevelTN and isolationLevelAN | * China Mobile E-Commerce Co | * not pursued |  | * - |
| * S5-197411 | * Add attribute to describe different types of isolation for network slice | * China Mobile E-Commerce Co | * not pursued |  | * - |
| * S5-197412 | * Add attribute property of coverage type | * China Mobile E-Commerce Co | * merged |  | * S5-197624 |
| * S5-197413 | * Rel-16 CR 32.291 Introduction of Binding for AMF Charging | * Nokia, Nokia Shanghai Bell | * revised |  | * S5-197494 |
| * S5-197414 | * Add attribute to describe different coverage types of network slice | * China Mobile E-Commerce Co | * revised |  | * S5-197621 |
| * S5-197415 | * Add background of relevant study in other SDOs or industry parties | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * withdrawn |  |  |
| * S5-197416 | * Add background of relevant study in other SDOs or industry parties | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * revised |  | * S5-197675 |
| * S5-197417 | * Add significance for levels of autonomous network | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * revised |  | * S5-197676 |
| * S5-197418 | * CR 32.158 Clarify design pattern for scoping and filtering | * Nokia, Nokia Shanghai Bell | * revised | * S5-196433 | * S5-197720 |
| * S5-197419 | * Discussion paper around RRM Policy | * Ericsson LM | * noted |  |  |
| * S5-197420 | * CR 32.158 Clarify design pattern for attribute field selection | * Nokia, Nokia Shanghai Bell | * revised | * S5-196446 | * S5-197721 |
| * S5-197421 | * CR 28.541 Management of NR ANR, Stage 2 | * Ericsson France S.A.S | * revised |  | * S5-197554 |
| * S5-197422 | * CR 28.541 Management of NR ANR, Stage 3 | * Ericsson France S.A.S | * agreed |  |  |
| * S5-197423 | * pCR 28.861 Remove work not in Rel-16 | * Ericsson France S.A.S | * revised |  | * S5-197628 |
| * S5-197424 | * pCR 28.861 Trace and MDT | * Ericsson France S.A.S | * revised |  | * S5-197627 |
| * S5-197425 | * Add potential solution for network autonomy level | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * revised |  | * S5-197799 |
| * S5-197426 | * Draft management services TS 28aaa-000 | * AT&T GNS Belgium SPRL | * revised |  | * S5-197599 |
| * S5-197427 | * Rel-16 CR 28.541 Update of RRM Policy | * Ericsson LM | * revised | * S5-196447 | * S5-197638 |
| * S5-197428 | * Rel-16 CR 28.532 Make scoping and filtering optional in CRUD operations | * Nokia, Nokia Shanghai Bell | * revised | * S5-196439 | * S5-197761 |
| * S5-197429 | * CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | * Nokia, Nokia Shanghai Bell | * revised | * S5-196451 | * S5-197762 |
| * S5-197430 | * Add description of communication service lifecycle prepareation phase | * China Mobile E-Commerce Co. | * revised |  | * S5-197583 |
| * S5-197431 | * Add fault RCA and recovery scenario example for network autonomy level | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * revised |  | * S5-197702 |
| * S5-197432 | * Correction of definition and reference | * Ericsson India Private Limited | * not pursued |  |  |
| * S5-197433 | * Rel-16 CR TS 28.541 Stage 3 for Add NRM Info Model definitions for active antenna systems (AAS) | * Ericsson LM | * withdrawn |  |  |
| * S5-197434 | * Rel-16 CR TS 28.541 Stage 3 for Add NRM Info Model definitions for active antenna systems (AAS) | * Ericsson LM | * merged |  | * S5-197643 |
| * S5-197435 | * Add NPN management use case | * China Mobile Com. Corporation, Huawei | * revised |  | * S5-197561 |
| * S5-197436 | * Rel-16 CR 32.298 Add NetworkFunctionality for I-SMF | * China Mobile Com. Corporation | * revised |  | * S5-197515 |
| * S5-197437 | * Add potential requirement for management of NPN | * China Mobile Com. Corporation, Huawei | * revised |  | * S5-197562 |
| * S5-197438 | * New structure for 5G MDT requirements | * Ericsson India Private Limited | * noted |  | * - |
| * S5-197439 | * Rel-16 CR 32.291 Add serving node information | * China Mobile Com. Corporation | * revised |  | * S5-197513 |
| * S5-197440 | * Rel-16 CR 32.298 Improvement of ASN.1 chapter CHF CDR | * Nokia, Nokia Shanghai Bell | * merged |  | * S5-197493 |
| * S5-197441 | * Add MDT Use Cases | * Ericsson India Private Limited | * noted |  | * - |
| * S5-197442 | * Add MDT business level requirements | * Ericsson India Private Limited | * noted |  | * - |
| * S5-197443 | * Add New Trace data Requirement | * Ericsson India Private Limited | * not pursued |  |  |
| * S5-197444 | * Correct schema to reflect location in the specifications | * Ericsson India Private Limited | * revised |  | * S5-197741 |
| * S5-197445 | * Correct XML Schema for consistency and clarity | * Ericsson India Private Limited | * not pursued |  | * - |
| * S5-197446 | * Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion | * Ericsson. | * not treated |  |  |
| * S5-197447 | * Removing not used reference and add reference to definition | * Ericsson India Private Limited | * not pursued |  |  |
| * S5-197448 | * Discussion paper on CSA loop entities | * L.M. Ericsson Limited | * noted |  | * - |
| * S5-197449 | * pCR 28.535 Service quality assurance and optimization | * L.M. Ericsson Limited | * revised |  | * S5-197749 |
| * S5-197450 | * pCR 28.535 Add use case and requirements for CSA PM services - overview | * L.M. Ericsson Limited | * noted |  |  |
| * S5-197451 | * pCR 28.535 Add use case and requirements for CS assurance measurement job control service | * L.M. Ericsson Limited | * withdrawn |  |  |
| * S5-197452 | * pCR 28.535 Add use case and requirements for CS assurance data reporting service | * L.M. Ericsson Limited | * not treated |  |  |
| * S5-197453 | * pCR 28.535 Add text for clause 4.2 Management control loops | * L.M. Ericsson Limited | * not treated |  |  |
| * S5-197454 | * Discussion paper on MDAS capabilities | * L.M. Ericsson Limited | * withdrawn |  |  |
| * S5-197455 | * pCR 28.536 Add Overview of interfaces | * L.M. Ericsson Limited | * revised |  | * S5-197653 |
| * S5-197456 | * TD R16 Combinations of GST attributes | * Ericsson | * revised |  | * S5-197625 |
| * S5-197457 | * Introduce CHF-Controlled Quota Management | * Amdocs Software Systems Ltd | * not treated |  |  |
| * S5-197458 | * Add CHF-Controlled Quota Management functionality | * Amdocs Software Systems Ltd | * not treated |  |  |
| * S5-197459 | * Add Quota Management Suspend and Resume Result Codes | * Amdocs Software Systems Ltd | * not treated |  |  |
| * S5-197460 | * Add Quota Management Suspend and Resume Result Codes in yaml | * Amdocs Software Systems Ltd | * not treated |  |  |
| * S5-197461 | * Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * revised | * S5-196845 | * S5-197640 |
| * S5-197462 | * Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * revised | * S5-196489 | * S5-197641 |
| * S5-197463 | * Rel-16 CR TS 28.541 Stages 2 and 3 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * revised |  | * S5-197642 |
| * S5-197464 | * Add cell neighbour relationship indication | * Nokia | * noted | * S5-196178 |  |
| * S5-197465 | * Update ANR optimization use case to allow for use of deployment data | * Nokia | * noted | * S5-196180 |  |
| * S5-197466 | * Add requirement for NR indication to ANR optimization usecase | * Nokia | * noted | * S5-196182 |  |
| * S5-197467 | * pCR 28.861 remove duplicated clause in Multi-aspect / multi-domain resource optimization use case | * Nokia | * approved | * S5-196175 |  |
| * S5-197468 | * Update SON coordination use case | * Nokia | * not treated |  |  |
| * S5-197469 | * Update reporting for SON coordination use case | * Nokia | * not treated |  |  |
| * S5-197470 | * Differentiate centralized, distributed and hybrid ES solution approaches | * Nokia | * noted |  |  |
| * S5-197471 | * Add use case on Automatic Cell Clustering for Energy Saving | * Nokia | * noted |  |  |
| * S5-197472 | * Allow for service-centric load redistribution | * Nokia | * not treated |  |  |
| * S5-197473 | * Update requirements for Load Balancing Optimization to allow for service centric resource optimization | * Nokia | * not treated |  |  |
| * S5-197474 | * Add attribute properties for network slice supports IMS and SSC mode | * China Mobile Com. Corporation | * not treated | * S5-197283 |  |
| * S5-197475 | * Add attribute properties for attribute isolationLevel,physicalIsolation and logicalIsolation | * China Mobile Com. Corporation | * not treated | * S5-197284 |  |
| * S5-197476 | * LS reply to LS on O-RAN – 3GPP Cooperation on Management Services | * Orange | * revised |  | * S5-197545 |
| * S5-197477 | * pCR 28.535 Communication service assurance scenario | * L.M. Ericsson Limited | * revised |  | * S5-197582 |
| * S5-197478 | * Presentation of TS 28.535 for information to SA#86 | * L.M. Ericsson Limited | * revised |  | * S5-197789 |
| * S5-197479 | * LS on Application Architecture for enabling Edge Applications | * S6-192399 | * replied to | * - | * - |
| * S5-197480 | * Reply to: Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | * Deutsche Telekom | * approved | * - | * - |
| * S5-197481 | * Reply to: Resubmitted LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations | * Nokia | * approved | * - | * - |
| * S5-197482 | * Revision of SA5 ToR - charging part | * CH SWG Chair | * noted | * S5-197154 | * - |
| * S5-197483 | * Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS | * China Mobile Com. Corporation | * agreed | * S5-197356 | * - |
| * S5-197484 | * Rel-16 CR 32.251 Add Caller and Callee information | * China Mobile Com. Corporation | * agreed | * S5-197358 | * - |
| * S5-197485 | * Rel-16 CR 32.298 Add Caller and Callee information | * China Mobile Com. Corporation | * agreed | * S5-197361 | * - |
| * S5-197486 | * Rel-16 CR 32.299 Add Caller and Callee information | * China Mobile Com. Corporation | * agreed | * S5-197362 | * - |
| * S5-197487 | * Rel-16 pCR 32.256 Solve Editor's Note on new triggers activation by CHF | * Nokia, Nokia Shanghai Bell | * approved | * S5-197111 | * - |
| * S5-197488 | * Rel-16 pCR 32.256 Solve Editor's Note Multiple Unit Usage | * Nokia, Nokia Shanghai Bell | * approved | * S5-197112 | * - |
| * S5-197489 | * Rel-16 pCR 32.256 Update Registration Charging Information IEs | * Nokia, Nokia Shanghai Bell | * approved | * S5-197115 | * - |
| * S5-197490 | * Rel-16 pCR 32.256 Introduce Message flows for roaming | * Nokia, Nokia Shanghai Bell | * approved | * S5-197116 | * - |
| * S5-197491 | * Rel-16 pCR 32.256 Align detailed message format for charging information | * Nokia, Nokia Shanghai Bell | * approved | * S5-197335 | * - |
| * S5-197492 | * Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197120 | * - |
| * S5-197493 | * Rel-16 CR 32.298 Introduce AMF CHF CDRs | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197118 | * - |
| * S5-197494 | * Rel-16 CR 32.291 Introduction of Binding for AMF Charging | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197413 | * - |
| * S5-197495 | * LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF | * Nokia | * approved | * S5-197246 | * - |
| * S5-197496 | * Rel-16 CR 32.291 Addition of binding for exposure function northbound API | * Ericsson | * agreed | * S5-197365 | * - |
| * S5-197497 | * Rel-16 CR 32.291 Addition of attributes in yaml for exposure function northbound API | * Ericsson | * agreed | * S5-197367 | * - |
| * S5-197498 | * Draft TS 32.256 | * Nokia, Nokia Shanghai Bell | * approved | * - | * - |
| * S5-197499 | * TS 32.256 cover sheet for SA approval | * Nokia, Nokia Shanghai Bell | * approved | * - | * - |
| * S5-197500 | * Rel-16 CR 32.260 CHF selection for IMS charging | * Huawei | * agreed | * S5-197185 | * - |
| * S5-197501 | * Rel-16 CR 32.260 IMS charging general description | * Huawei | * agreed | * S5-197186 | * - |
| * S5-197502 | * Rel-16 CR 32.260 IMS charging trigger | * Huawei | * agreed | * S5-197187 | * - |
| * S5-197503 | * Rel-16 CR 32.281 Addition of convergent flows | * Ericsson | * agreed | * S5-196548 | * - |
| * S5-197504 | * Rel-16 CR 32.255 PDU session modification procedure with I-SMF | * Ericsson | * agreed | * S5-197045 | * - |
| * S5-197505 | * Rel-16 CR 32.255 PDU session release procedure with I-SMF involvement | * Ericsson | * agreed | * S5-197046 | * - |
| * S5-197506 | * Rel-16 CR 32.255 Charging procedure with I-SMF insertion/change/removal | * Ericsson | * agreed | * S5-197047 | * - |
| * S5-197507 | * Rel-16 CR 32.255 Adding I-SMF triggers related actions in SMF | * Ericsson | * agreed | * S5-197103 | * - |
| * S5-197508 | * Rel-16 CR 32.255 Adding I-SMF controlled UPF triggers & related actions in SMF | * Ericsson | * agreed | * S5-197257 | * - |
| * S5-197509 | * Rel-16 CR 32.255 Add CDR trigger condition for change of I-SMF | * Huawei | * agreed | * S5-197189 | * - |
| * S5-197510 | * Rel-16 CR 32.255 Add charging ID assigned by SMF with I-SMF | * Huawei | * agreed | * S5-197190 | * - |
| * S5-197511 | * Rel-16 CR 32.291 adding I-SMF related trigger type | * Ericsson | * agreed | * S5-197260 | * - |
| * S5-197512 | * Rel-16 CR 32.291 Add data type for I-SMF | * Huawei | * agreed | * S5-197265 | * - |
| * S5-197513 | * Rel-16 CR 32.291 Add serving node information | * China Mobile Com. Corporation | * agreed | * S5-197439 | * - |
| * S5-197514 | * Rel-16 CR 32.298 adding I-SMF related SMFTrigger | * Ericsson | * agreed | * S5-197261 | * - |
| * S5-197515 | * Rel-16 CR 32.298 Add NetworkFunctionality for I-SMF | * China Mobile Com. Corporation | * agreed | * S5-197436 | * - |
| * S5-197516 | * Rel-16 pCR 28.201 Add high level 5G System architecture to clause 4.1 | * Huawei | * approved | * S5-197174 | * - |
| * S5-197517 | * Rel-16 pCR 28.201 Architecture considerations | * Ericsson | * approved | * S5-197373 | * - |
| * S5-197518 | * Rel-16 pCR TS 28.201 Add high level description | * Huawei | * approved | * S5-197349 | * - |
| * S5-197519 | * Rel-16 pCR 28.201 Add charging requirements to clause 5.1 | * Huawei | * approved | * S5-197176 | * - |
| * S5-197520 | * Rel-16 pCR 28.201 Add information description to clause 5.1 | * Huawei | * approved | * S5-197177 | * - |
| * S5-197521 | * Rel-16 pCR 28.201 Add discovery and selection to clause 5.1 | * Huawei | * approved | * S5-197178 | * - |
| * S5-197522 | * Rel-16 pCR 28.201 Add basic principles to clause 5.2 | * Huawei | * noted | * S5-197180 | * - |
| * S5-197523 | * Rel-16 pCR 28.201 Add CDR generation to clause 5.2 | * Huawei | * approved | * S5-197184 | * - |
| * S5-197524 | * Draft TS 28.201 | * Huawei | * approved | * - | * - |
| * S5-197525 | * Rel-16 pCR TR 32.845 Remove the editor's note about capacity based charging | * Huawei | * approved | * S5-197172 | * - |
| * S5-197526 | * Rel-16 pCR TR 32.845 Conclusion of the study | * Huawei | * approved | * - | * - |
| * S5-197527 | * Draft TR 32.845 | * Huawei | * approved | * - | * - |
| * S5-197528 | * TR 32.845 cover sheet SA approval | * Huawei | * approved | * - | * - |
| * S5-197529 | * Rel-15 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197107 | * - |
| * S5-197530 | * Rel-16 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197108 | * - |
| * S5-197531 | * Rel-15 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * agreed | * S5-197124 | * - |
| * S5-197532 | * Rel-16 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * agreed | * S5-197135 | * - |
| * S5-197533 | * Rel-15 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * agreed | * S5-197192 | * - |
| * S5-197534 | * Rel-16 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * agreed | * S5-197215 | * - |
| * S5-197535 | * Rel-15 CR 32.255 Addition of Furnish Charging Information | * Huawei | * agreed | * S5-197194 | * - |
| * S5-197536 | * Rel-16 CR 32.255 Addition of Furnish Charging Information | * Huawei | * agreed | * S5-197217 | * - |
| * S5-197537 | * Rel-15 CR 32.298 Addition of Furnish Charging Information | * Huawei | * agreed | * S5-197193 | * - |
| * S5-197538 | * Rel-16 CR 32.298 Addition of Furnish Charging Information | * Huawei | * agreed | * S5-197216 | * - |
| * S5-197539 | * Rel-15 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * agreed | * S5-197196 | * - |
| * S5-197540 | * Reply to: Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2 | * Ericsson | * revised | * - | * S5-197715 |
| * S5-197541 | * Reply to: Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | * Nokia | * approved | * - | * - |
| * S5-197542 | * Reply to: LS to SA5 on whether new 5QI needs for IAB OAM traffic | * Intel | * revised | * - | * S5-197814 |
| * S5-197543 | * Reply to: Reply LS to SA5 on QoE Measurement Collection | * SA5 | * approved | * - | * - |
| * S5-197544 | * Add I-SMF charging message flow for handover | * Huawei | * not treated | * - | * - |
| * S5-197545 | * LS reply to LS on O-RAN – 3GPP Cooperation on Management Services | * Orange | * approved | * S5-197476 | * - |
| * S5-197546 | * Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * Ericsson | * revised | * - | * S5-197815 |
| * S5-197547 | * OAM&P SWG action list | * WG Vice Chair (Huawei) | * noted | * S5-197014 | * - |
| * S5-197548 | * Overview of the 5G specification structure | * HiSilicon Technologies Co. Ltd | * endorsed | * S5-197285 | * - |
| * S5-197549 | * Potential Rel-17 SA5 OAM work area | * HiSilicon Technologies Co. Ltd | * revised | * S5-197287 | * S5-197801 |
| * S5-197550 | * Chair notes on OAM sessions | * WG Chair | * noted | * - | * - |
| * S5-197551 | * pCR 28.313 Add usecase and requirements for establishment of new NF in network | * Huawei,China Telecommunications | * approved | * S5-197092 | * - |
| * S5-197552 | * pCR 28.313 Update the requirements for ANR management in NG-RAN | * Huawei | * revised | * S5-197127 | * S5-197818 |
| * S5-197553 | * pCR 28.313 Add solutions for ANR management | * Huawei | * revised | * S5-197128 | * S5-197819 |
| * S5-197554 | * CR 28.541 Management of NR ANR, Stage 2 | * Ericsson France S.A.S | * revised | * S5-197421 | * S5-197837 |
| * S5-197555 | * pCR 28.313 D-SON PCI configuration use case | * Intel Corporation (UK) Ltd | * revised | * S5-197069 | * S5-197790 |
| * S5-197556 | * pCR 28.313 Use case for distributed PCI configuration | * Huawei | * withdrawn | * - | * - |
| * S5-197557 | * pCR 28.807 Clean-up for roles related to NPN management | * Huawei | * approved | * S5-197312 | * - |
| * S5-197558 | * pCR 28.807 Add potential requirements for management of NPN | * Huawei | * approved | * S5-197314 | * - |
| * S5-197559 | * LS on network sharing with non-public networks | * Huawei | * revised | * S5-197316 | * S5-197805 |
| * S5-197560 | * LS on CAG | * Huawei | * revised | * S5-197319 | * S5-197806 |
| * S5-197561 | * Add NPN management use case | * China Mobile Com. Corporation, Huawei | * approved | * S5-197435 | * - |
| * S5-197562 | * Add potential requirement for management of NPN | * China Mobile Com. Corporation, Huawei | * revised | * S5-197437 | * S5-197800 |
| * S5-197563 | * pCR 28.807 Add clauses for solutions and conclusions | * Huawei | * approved | * S5-197317 | * - |
| * S5-197564 | * Rel-16 CR 28.552 Add measured object NRCellRelation to the HO related measurements | * Intel Corporation SAS | * agreed | * S5-197065 | * - |
| * S5-197565 | * Add definitions of PDCP end user throughput measurements | * Nokia Solutions & Networks (I) | * withdrawn | * - | * - |
| * S5-197566 | * Rel-16 CR TS 28.552 Packet Drop Rate measurements update | * Ericsson LM,,Verizon | * agreed | * S5-197322 | * - |
| * S5-197567 | * Rel-16 CR TS 28.552 Packet Loss Rate measurements update | * Ericsson LM,,Verizon | * agreed | * S5-197323 | * - |
| * S5-197568 | * Rel-16 CR TS 28.552 PDCP Data Volume measurements update | * Ericsson LM,Verizon | * agreed | * S5-197325 | * - |
| * S5-197569 | * Rel-16 CR TS 28.552 UE Throughput measurements update | * Ericsson LM,Verizon | * agreed | * S5-197329 | * - |
| * S5-197570 | * Rel-16 CR TS 32.421 terminology clean-up | * Nokia Japan | * agreed | * S5-197238 | * - |
| * S5-197571 | * Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | * China Telecommunications, ZTE | * agreed | * S5-197286 | * - |
| * S5-197572 | * Rel-16 CR TS 28.550 Enhace performance data report related operations | * ZTE Corporation, China Telecom | * agreed | * S5-197278 | * - |
| * S5-197573 | * Rel-16 CR TS 28.622 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * not pursued | * S5-197279 | * - |
| * S5-197574 | * Rel-16 CR TS 28.623 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * not pursued | * S5-197280 | * - |
| * S5-197575 | * Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | * Huawei, ZTE, China Telecom | * agreed | * S5-197296 | * - |
| * S5-197576 | * Discussion paper about multi-tenancy use cases in 3GPP management system | * Huawei | * revised | * S5-197164 | * S5-197797 |
| * S5-197577 | * Rel-16 CR TS 28.541 Add tenant information to support multiple tenants environment | * Huawei | * not pursued | * S5-197165 | * - |
| * S5-197578 | * TD tenant information to support multi-tenancy environment | * Nokia, Nokia Shanghai Bell | * withdrawn | * - | * - |
| * S5-197579 | * pCR 28.808 Add solution to allow a network slice instance to be associated with both a Satellite RAN and a Terrestrial RAN | * TNO | * approved | * S5-197382 | * - |
| * S5-197580 | * Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | * HUAWEI TECHNOLOGIES Co. Ltd. | * revised | * S5-197295 | * S5-197779 |
| * S5-197581 | * pCR TS 28.535 Add concepts related to close loop assurance | * HiSilicon Technologies Co. Ltd | * withdrawn | * - | * - |
| * S5-197582 | * pCR 28.535 Communication service assurance scenario | * L.M. Ericsson Limited | * approved | * S5-197477 | * - |
| * S5-197583 | * Add description of communication service lifecycle prepareation phase | * China Mobile E-Commerce Co. | * revised | * S5-197430 | * S5-197834 |
| * S5-197584 | * pCR 28.535 Interaction with core network for service assurance | * Huawei | * revised | * S5-197309 | * S5-197786 |
| * S5-197585 | * pCR 28.535 use case for obtaining resource requirements for a communication service | * Huawei | * approved | * S5-197310 | * - |
| * S5-197586 | * pCR 28.313 Add procedures for establishment of new NE in network | * Huawei,China Telecommunications | * approved | * S5-197099 | * - |
| * S5-197587 | * Rel-16 CR TS 32.422 update trace configuration parameters | * Nokia Japan | * agreed | * S5-197254 | * - |
| * S5-197588 | * Rel-16 CR TS 32.422 add streaming trace reporting description | * Nokia Japan | * agreed | * S5-197256 | * - |
| * S5-197589 | * Rel-16 CR TS 28.541 Update XML definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * agreed | * S5-197101 | * - |
| * S5-197590 | * pCR 28.313 D-SON PCI configuration procedure | * Intel Corporation (UK) Ltd | * revised | * S5-197071 | * S5-197792 |
| * S5-197591 | * pCR 28.313 Requirements for distributed PCI configuration | * Huawei | * merged | * S5-197133 | * S5-197790 |
| * S5-197592 | * pCR 28.313 D-SON PCI configuration information | * Intel Corporation (UK) Ltd | * revised | * S5-197073 | * S5-197794 |
| * S5-197593 | * pCR 28.313 C-SON PCI configuration use case | * Intel Corporation (UK) Ltd | * revised | * S5-197070 | * S5-197791 |
| * S5-197594 | * pCR 28.313 C-SON PCI configuration procedure | * Intel Corporation (UK) Ltd | * revised | * S5-197072 | * S5-197793 |
| * S5-197595 | * pCR 28.313 C-SON PCI configuration information | * Intel Corporation (UK) Ltd | * revised | * S5-197074 | * S5-197795 |
| * S5-197596 | * pCR 28.313 LBO use cases | * Intel Corporation (UK) Ltd | * noted | * S5-197075 | * - |
| * S5-197597 | * Rel-16 CR 28.532 Introduce Heartbeat MnS | * AT&T, Deutsche Telekom, Orange | * revised | * S5-197052 | * S5-197775 |
| * S5-197598 | * Rel-16 CR TS 28.540 Add requirement on NR active antenna system (AAS) configuration | * Ericsson LM, Huawei | * agreed | * S5-197333 | * - |
| * S5-197599 | * Draft management services TS 28aaa-000 | * AT&T GNS Belgium SPRL | * revised | * S5-197426 | * S5-197778 |
| * S5-197600 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * revised | * S5-197155 | * S5-197770 |
| * S5-197601 | * Reply to: LS on Application Architecture for enabling Edge Applications | * Samsung | * revised | * - | * S5-197752 |
| * S5-197602 | * pCR 28.313 Add Concept for Establishment of new NE in network | * China Telecommunications, Huawei | * revised | * S5-197293 | * S5-197796 |
| * S5-197603 | * Rel-16 CR TS 28.533 Get MnS instance URI | * Huawei | * not pursued | * S5-197161 | * - |
| * S5-197604 | * Rel-16 CR TS 28.532 Discover MnS instance | * Huawei | * not pursued | * S5-197162 | * - |
| * S5-197605 | * Rel-16 CR 32.533 Add MnS discovery | * Nokia, Nokia Shanghai Bell | * withdrawn | * - | * - |
| * S5-197606 | * Rel-16 CR 32.533 Introduce a MnS profile | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197398 | * - |
| * S5-197607 | * pCR 28.812 Add the relation between IDMS and SON | * Huawei | * approved | * S5-197091 | * - |
| * S5-197608 | * Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge | * Samsung Electronics France SA | * revised | * S5-197297 | * S5-197769 |
| * S5-197609 | * pCR 28.812 Add the potential requirements for existing scenarios | * Huawei | * revised | * S5-197093 | * S5-197767 |
| * S5-197610 | * pCR 28.812 Add the potential requirements for intent lifecycle management | * Huawei | * revised | * S5-197094 | * S5-197768 |
| * S5-197611 | * pCR 28.812 Update area-based management scenario | * Huawei | * approved | * S5-197095 | * - |
| * S5-197612 | * pCR 28.812 Add potential solution for area based radio network deployment | * Huawei | * approved | * S5-197096 | * - |
| * S5-197613 | * Revised WID on energy efficiency of 5G | * Orange | * agreed | * S5-197346 | * - |
| * S5-197614 | * Terms correction for 5G energy saving | * Ericsson France S.A.S | * approved | * S5-197383 | * - |
| * S5-197615 | * pCR 28.311 Add information Object Classes | * China Mobile Com. Corporation | * revised | * S5-197290 | * S5-197763 |
| * S5-197616 | * Revised WID on network policy management for mobile networks based on NFV scenarios | * China Mobile Com. Corporation | * agreed | * S5-197303 | * - |
| * S5-197617 | * pCR 28.311 Rewrite interface identifaction | * China Mobile Com. Corporation | * revised | * S5-197371 | * S5-197766 |
| * S5-197618 | * pCR 28.311 Add XML definition | * China Mobile Com. Corporation | * revised | * S5-197292 | * S5-197764 |
| * S5-197619 | * pCR 28.311 Add SOAP Solutions Set | * China Mobile Com. Corporation | * revised | * S5-197294 | * S5-197765 |
| * S5-197620 | * Presentation of TS 28.311 for Information and approval to SA#86 | * China Mobile Com. Corporation | * approved | * S5-197305 | * - |
| * S5-197621 | * Rel-16 CR TS 28.541 Update on slice model | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * agreed | * S5-197100 | * - |
| * S5-197622 | * Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * revised | * S5-197102 | * S5-197798 |
| * S5-197623 | * Discussion of isolation levels definition in SA5 | * China Mobile, China Southern Power Grid Co. , Huawei | * noted | * - | * - |
| * S5-197624 | * Add attribute to describe different coverage types of network slice | * China Mobile E-Commerce Co | * withdrawn | * - | * - |
| * S5-197625 | * TD R16 Combinations of GST attributes | * Ericsson | * endorsed | * S5-197456 | * - |
| * S5-197626 | * Add Automatic CSI to NSI mapping use case | * China Mobile E-Commerce Co. | * revised | * S5-197404 | * S5-197803 |
| * S5-197627 | * pCR 28.861 Trace and MDT | * Ericsson France S.A.S | * approved | * S5-197424 | * - |
| * S5-197628 | * pCR 28.861 Remove work not in Rel-16 | * Ericsson France S.A.S | * approved | * S5-197423 | * - |
| * S5-197629 | * Living document of review of GSMA GST SA5#128 | * Huawei, China Mobile | * approved | * S5-197306 | * - |
| * S5-197630 | * LS out on GSMA GST | * Huawei, China Mobile | * revised | * S5-197307 | * S5-197802 |
| * S5-197631 | * Presentation of TS 28.861 for approval to SA#86 | * Intel | * revised | * - | * S5-197804 |
| * S5-197632 | * Discussion of Modification to the existed provisioning procedure after considering | * China Mobile E-Commerce Co | * endorsed | * - | * - |
| * S5-197633 | * WI\_Exception\_Management Aspects of 5G Service-Level Agreement | * China Mobile E-Commerce Co. | * revised | * S5-197396 | * S5-197823 |
| * S5-197634 | * Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | * Huawei | * conditionally agreed | * S5-197089 | * - |
| * S5-197635 | * Rel-16 CR 28.541 Add NRM fragment for resource allocation and deallocation | * Nokia, Nokia Shanghai Bell | * withdrawn | * - | * - |
| * S5-197636 | * Rel-16 CR 28.531 Update allocation and deallocation procedures | * Nokia, Nokia Shanghai Bell | * withdrawn | * - | * - |
| * S5-197637 | * Reply to: Resubmitted LS from RAN3 Reply on radio resource management policy | * Ericsson | * approved | * - | * - |
| * S5-197638 | * Rel-16 CR 28.541 Update of RRM Policy | * Ericsson LM | * conditionally agreed | * S5-197427 | * - |
| * S5-197639 | * Update definition of attributes related to RRMPolicy | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197169 | * - |
| * S5-197640 | * Rel-15 CR TS 28.541 Stages 2 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * agreed | * S5-197461 | * - |
| * S5-197641 | * Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * agreed | * S5-197462 | * - |
| * S5-197642 | * Rel-16 CR TS 28.541 Stages 2 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange, Huawei | * agreed | * S5-197463 | * - |
| * S5-197643 | * Rel-16 CR TS 28.541 Stages 3 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange, Huawei | * agreed | * - | * - |
| * S5-197644 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * revised | * S5-197123 | * S5-197773 |
| * S5-197645 | * MF-ME relation with VNF | * Ericsson Inc. | * endorsed | * S5-197264 | * - |
| * S5-197646 | * Rel-16 CR 28.622 Add heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell. Orange | * revised | * S5-197401 | * S5-197828 |
| * S5-197647 | * Rel-16 CR 28.623 Add stage 3 for heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * agreed | * - | * - |
| * S5-197648 | * Rel-16 CR 28.622 Add stage 3 for subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * agreed | * - | * - |
| * S5-197649 | * Rel-16 CR 28.622 Add subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * revised | * S5-197402 | * S5-197829 |
| * S5-197650 | * LS on update of touchpoints | * Nokia | * approved | * - | * - |
| * S5-197651 | * Discussion paper on CSA loop entities | * L.M. Ericsson Limited | * withdrawn | * - | * - |
| * S5-197652 | * Minutes of Energy effciency of 5G | * Rapporteur (ORANGE) | * noted | * S5-197018 | * - |
| * S5-197653 | * pCR 28.536 Add Overview of interfaces | * L.M. Ericsson Limited | * revised | * S5-197455 | * S5-197788 |
| * S5-197654 | * Rel-16 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * agreed | * S5-197219 | * - |
| * S5-197655 | * Rel-15 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * agreed | * S5-197195 | * - |
| * S5-197656 | * Rel-16 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * agreed | * S5-197218 | * - |
| * S5-197657 | * Rel-15 CR 32.290 Correction on Notify response | * Huawei | * agreed | * S5-197197 | * - |
| * S5-197658 | * Rel-16 CR 32.290 Correction on Notify response | * Huawei | * agreed | * S5-197220 | * - |
| * S5-197659 | * Rel-15 CR 32.291 Correction on Notify response | * Huawei | * agreed | * S5-197198 | * - |
| * S5-197660 | * Rel-16 CR 32.291 Correction on Notify response | * Huawei | * agreed | * S5-197221 | * - |
| * S5-197661 | * Rel-15 CR 32.240 Clarify the Category across specifications | * Huawei | * agreed | * - | * - |
| * S5-197662 | * Rel-16 CR 32.240 Clarify the Category across specifications | * Huawei | * agreed | * - | * - |
| * S5-197663 | * Rel-15 CR 32.291 Correction on the Resource URI | * Huawei | * agreed | * S5-197209 | * - |
| * S5-197664 | * Rel-16 CR 32.291 Correction on the Resource URI | * Huawei | * agreed | * S5-197230 | * - |
| * S5-197665 | * Rel-15 CR 32.291 Clarify the QoS change trigger | * Huawei | * agreed | * S5-197268 | * - |
| * S5-197666 | * Rel-16 CR 32.291 Clarify the QoS change trigger | * Huawei | * agreed | * S5-197269 | * - |
| * S5-197667 | * Rel-15 CR 32.291 Add Session-AMBR change trigger | * Huawei | * agreed | * S5-197281 | * - |
| * S5-197668 | * Rel-16 CR 32.291 Add Session-AMBR change trigger | * Huawei | * agreed | * S5-197282 | * - |
| * S5-197669 | * Rel-15 CR 32.298 Correction on unused quota timer | * Huawei | * agreed | * S5-197288 | * - |
| * S5-197670 | * Rel-15 CR 32.290 Correction to NF consumer identification | * Ericsson | * agreed | * S5-197376 | * - |
| * S5-197671 | * Rel-16 CR 32.290 Correction to NF consumer identification | * Ericsson | * agreed | * S5-197377 | * - |
| * S5-197672 | * Rel-15 CR 32.298 Correction to NF consumer identification | * Ericsson | * agreed | * S5-197380 | * - |
| * S5-197673 | * Rel-16 CR 32.298 Correction to NF consumer identification | * Ericsson | * agreed | * S5-197381 | * - |
| * S5-197674 | * Discussion on potential ways for integration of ONAP and 3GPP MnS | * Huawei | * revised | * S5-197098 | * S5-197776 |
| * S5-197675 | * Add background of relevant study in other SDOs or industry parties | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * revised | * S5-197416 | * S5-197780 |
| * S5-197676 | * Add significance for levels of autonomous network | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * approved | * S5-197417 | * - |
| * S5-197677 | * pCR 28.810 Add concept of network autonomy | * Huawei, China Mobile, China Unicom, ZTE | * revised | * S5-197351 | * S5-197820 |
| * S5-197678 | * pCR 28.810 Add concept of network autonomy level | * Huawei, China Mobile, China Unicom, ZTE | * revised | * S5-197352 | * S5-197821 |
| * S5-197679 | * discussion on introducing network data analysis for wireless energy saving | * China Telecom Corporation Ltd., CATT | * noted | * S5-197359 | * - |
| * S5-197680 | * pCR Add UC on MDA assisted energy saving | * China Telecom Corporation Ltd. | * revised | * - | * S5-197781 |
| * S5-197681 | * Rel-15 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * agreed | * S5-197385 | * - |
| * S5-197682 | * Rel-16 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * agreed | * S5-197387 | * - |
| * S5-197683 | * Rel-15 CR 32.255 Correction of charging rule base name | * Ericsson | * agreed | * S5-197389 | * - |
| * S5-197684 | * Rel-16 CR 32.255 Correction of charging rule base name | * Ericsson | * agreed | * S5-197390 | * - |
| * S5-197685 | * Rel-16 CR 32.255 Correction of handover triggers | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197051 | * - |
| * S5-197686 | * Rel-16 CR 32.298 Add the Qos Characteristics | * Huawei | * agreed | * S5-197234 | * - |
| * S5-197687 | * Rel-16 CR 32.290 Add the group id for CHF registration | * Huawei | * agreed | * S5-197235 | * - |
| * S5-197688 | * Rel-16 draftCR 32.255 Add 5WWC architecture diagram | * Huawei | * agreed | * S5-197336 | * - |
| * S5-197689 | * Rel-16 draftCR 32.255 Add 5WWC charging requirements | * Huawei | * agreed | * S5-197337 | * - |
| * S5-197690 | * Rel-16 draftCR 32.255 Add precedure for 5G RG scenario | * Huawei | * approved | * S5-197338 | * - |
| * S5-197691 | * Rel-16 draftCR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | * Huawei | * approved | * S5-197341 | * - |
| * S5-197692 | * Rel-15 CR 32.274 Correction on SMS Submission - ECUR flow | * Huawei | * not pursued | * S5-197214 | * - |
| * S5-197693 | * Rel-15 CR 32.274 Correction on Applicable Triggers in the SMSF | * Huawei | * not pursued | * S5-197213 | * - |
| * S5-197694 | * Rel-15 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * agreed | * S5-197204 | * - |
| * S5-197695 | * Rel-16 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * agreed | * S5-197226 | * - |
| * S5-197696 | * LS on Addition of AVP code definition | * Nokia | * approved | * - | * - |
| * S5-197697 | * SA5#128 CH Agreed & Approved | * CH SWG Chair | * agreed | * - | * - |
| * S5-197698 | * (reserved) | * charging | * withdrawn | * - | * - |
| * S5-197699 | * (reserved) | * charging | * withdrawn | * - | * - |
| * S5-197700 | * (reserved) | * charging | * withdrawn | * - | * - |
| * S5-197701 | * pCR 28.810 addition of multi-domain/layer/technology orchestration automation use case and requirement | * ETRI | * revised | * S5-197330 | * S5-197811 |
| * S5-197702 | * Add fault RCA and recovery scenario example for network autonomy level | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * approved | * S5-197431 | * - |
| * S5-197703 | * pCR 28.810 Add coverage optimization scenario exampe for classification of network autonomy levels | * Huawei, China Mobile, China Unicom, ZTE | * revised | * S5-197354 | * S5-197812 |
| * S5-197704 | * pCR 28.810 Add NE deployment scenario exampe for classification of network autonomy levels | * Huawei, China Mobile, China Unicom, ZTE | * revised | * S5-197355 | * S5-197813 |
| * S5-197705 | * Update MDT requirement to include support of MDT in 5G | * Ericsson India Private Limited | * agreed | * - | * - |
| * S5-197706 | * Add MDT business level requirements | * Ericsson India Private Limited | * agreed | * - | * - |
| * S5-197707 | * pCR 28.809 Update the overview descriptions of MDAS | * Huawei | * approved | * S5-197298 | * - |
| * S5-197708 | * pCR Add MDA role in the management loop | * Intel Corporation SAS | * revised | * S5-197056 | * S5-197807 |
| * S5-197709 | * pCR 28.809 Update the use case of RAN user plane congestion | * Huawei | * approved | * S5-197299 | * - |
| * S5-197710 | * pCR Add possible solution on coverage issue analysis | * Intel Corporation SAS, Huawei | * approved | * S5-197057 | * - |
| * S5-197711 | * pCR Add UC on resource utilization analysis | * Intel Corporation SAS | * approved | * S5-197058 | * - |
| * S5-197712 | * pCR 28.809 Add the use case of alarm incident analysis as one of the fault management related issues | * Huawei | * revised | * S5-197302 | * S5-197808 |
| * S5-197713 | * pCR 28.809 Add UC on handover optimization | * Samsung Electronics GmbH | * revised | * S5-197324 | * S5-197809 |
| * S5-197714 | * pCR 28.809 Add the use case of E2E latency analysis as one of the SLS assurance related issues | * Huawei | * approved | * S5-197301 | * - |
| * S5-197715 | * Reply to: Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2 | * Ericsson | * approved | * S5-197540 | * - |
| * S5-197716 | * New WID on 5G management capabilities | * AT&T, Orange | * revised | * - | * S5-197817 |
| * S5-197717 | * YANG\_Netconf CM Notifications | * Ericsson España S.A.,Telecom Italia, Orange, China Mobile | * not pursued | * S5-197236 | * - |
| * S5-197718 | * YANG\_Netconf Operations | * Ericsson España S.A., Huawei, China Mobile, Teleom Italia, Orange | * not pursued | * S5-197247 | * - |
| * S5-197719 | * Additions to YANG style Guide | * Ericsson España S.A. | * revised | * S5-197253 | * S5-197774 |
| * S5-197720 | * CR 32.158 Clarify design pattern for scoping and filtering | * Nokia, Nokia Shanghai Bell | * revised | * S5-197418 | * S5-197825 |
| * S5-197721 | * CR 32.158 Clarify design pattern for attribute field selection | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197420 | * - |
| * S5-197722 | * 15 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * not pursued | * S5-197158 | * - |
| * S5-197723 | * Rel-16 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * not pursued | * S5-197159 | * - |
| * S5-197724 | * Correct Network slice NRM | * CATT | * revised | * S5-197291 | * S5-197760 |
| * S5-197725 | * Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * revised | * S5-197086 | * S5-197755 |
| * S5-197726 | * Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * revised | * S5-197087 | * S5-197756 |
| * S5-197727 | * Rel-16 CR 28.552 Add use case of monitoring of PCI to detect PCI collision or confusion | * Intel | * agreed | * - | * - |
| * S5-197728 | * Rel-16 CR 28.533 Clarify numerous definitions | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197409 | * - |
| * S5-197729 | * Rel-16 CR 28.533 Clarify numerous definitions | * Nokia, Nokia Shanghai Bell | * agreed | * - | * - |
| * S5-197730 | * Rel-16 CR TS 28.541 XML Solution Set for 5GC | * CATT,Huawei | * agreed | * S5-197059 | * - |
| * S5-197731 | * [Resubmitted] Rel-15 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * agreed | * S5-197053 | * - |
| * S5-197732 | * [Resubmitted] Rel-16 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * agreed | * S5-197054 | * - |
| * S5-197733 | * Rel-15 CR TS 28.622 update the definition of attribute measurementsList | * ZTE Corporation, Ericsson | * agreed | * S5-197274 | * - |
| * S5-197734 | * Rel-15 CR TS 28.623 update the definition of attribute measurementsList | * ZTE Corporation | * agreed | * S5-197276 | * - |
| * S5-197735 | * Rel-16 CR TS 28.623 Add the definition of attribute measurementsList | * ZTE Corporation | * agreed | * S5-197277 | * - |
| * S5-197736 | * CR Rel-15 28.532 v1530 correct event time defn | * Ericsson Inc. | * agreed | * S5-197081 | * - |
| * S5-197737 | * Correct event time defn | * Ericsson Inc. | * agreed | * S5-197082 | * - |
| * S5-197738 | * Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * revised | * S5-197156 | * S5-197758 |
| * S5-197739 | * Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * revised | * S5-197157 | * S5-197759 |
| * S5-197740 | * Add notifyAlert | * Ericsson Inc. | * agreed | * S5-197083 | * - |
| * S5-197741 | * Correct schema to reflect location in the specifications | * Ericsson India Private Limited | * agreed | * S5-197444 | * - |
| * S5-197742 | * Correct XML Schema for consistency and clarity | * Ericsson India Private Limited | * agreed | * - | * - |
| * S5-197743 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * revised | * S5-197251 | * S5-197771 |
| * S5-197744 | * CR Rel-16 32.160 Resolution of Editors Note in clause W4.3 Class definitions | * L.M. Ericsson Limited | * revised | * S5-197250 | * S5-197772 |
| * S5-197745 | * pCR 28.810 pCR 28.810 Add potential dimensions for classification of network autonomy level | * Huawei, China Mobile, China Unicom, ZTE | * revised | * S5-197353 | * S5-197822 |
| * S5-197746 | * TD Using feature identifiers in MnS profiles | * Nokia, Nokia Shanghai Bell | * not pursued | * S5-197400 | * - |
| * S5-197747 | * pCR 28.535 Add analytics scenario introduction | * Huawei | * withdrawn | * - | * - |
| * S5-197748 | * pCR 28.535 Add UC on analytical data enablement | * Samsung Electronics GmbH | * withdrawn | * - | * - |
| * S5-197749 | * pCR 28.535 Service quality assurance and optimization | * L.M. Ericsson Limited | * revised | * S5-197449 | * S5-197787 |
| * S5-197750 | * pCR 28.313 LBO procedures | * Intel Corporation (UK) Ltd | * noted | * S5-197076 | * - |
| * S5-197751 | * pCR 28.313 LBO information | * Intel Corporation (UK) Ltd | * noted | * S5-197077 | * - |
| * S5-197752 | * Reply to: LS on Application Architecture for enabling Edge Applications | * Samsung | * approved | * S5-197601 | * - |
| * S5-197753 | * OAM&P SWG action list | * WG Vice Chair (Huawei) | * withdrawn | * - | * - |
| * S5-197754 | * Correct NR TAC attribute property | * Ericsson LM | * agreed | * S5-197080 | * - |
| * S5-197755 | * Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * agreed | * S5-197725 | * - |
| * S5-197756 | * Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * agreed | * S5-197726 | * - |
| * S5-197757 | * Add managedNFProfile definition for ngc NRM - stage3 | * CATT | * agreed | * S5-197105 | * - |
| * S5-197758 | * Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * agreed | * S5-197738 | * - |
| * S5-197759 | * Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * agreed | * S5-197739 | * - |
| * S5-197760 | * Correct Network slice NRM | * CATT | * agreed | * S5-197724 | * - |
| * S5-197761 | * Rel-16 CR 28.532 Make scoping and filtering optional in CRUD operations | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197428 | * - |
| * S5-197762 | * CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197429 | * - |
| * S5-197763 | * pCR 28.311 Add information Object Classes | * China Mobile Com. Corporation | * approved | * S5-197615 | * - |
| * S5-197764 | * pCR 28.311 Add XML definition | * China Mobile Com. Corporation | * approved | * S5-197618 | * - |
| * S5-197765 | * pCR 28.311 Add SOAP Solutions Set | * China Mobile Com. Corporation | * approved | * S5-197619 | * - |
| * S5-197766 | * pCR 28.311 Rewrite interface identifaction | * China Mobile Com. Corporation | * approved | * S5-197617 | * - |
| * S5-197767 | * pCR 28.812 Add the potential requirements for existing scenarios | * Huawei | * approved | * S5-197609 | * - |
| * S5-197768 | * pCR 28.812 Add the potential requirements for intent lifecycle management | * Huawei | * approved | * S5-197610 | * - |
| * S5-197769 | * Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge | * Samsung Electronics France SA | * approved | * S5-197608 | * - |
| * S5-197770 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * revised | * S5-197600 | * S5-197826 |
| * S5-197771 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * revised | * S5-197743 | * S5-197824 |
| * S5-197772 | * CR Rel-16 32.160 Resolution of Editors Note in clause W4.3 Class definitions | * L.M. Ericsson Limited | * agreed | * S5-197744 | * - |
| * S5-197773 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * revised | * S5-197644 | * S5-197827 |
| * S5-197774 | * Additions to YANG style Guide | * Ericsson España S.A. | * agreed | * S5-197719 | * - |
| * S5-197775 | * Rel-16 CR 28.532 Introduce Heartbeat MnS | * AT&T, Orange | * agreed | * S5-197597 | * - |
| * S5-197776 | * Discussion on potential ways for integration of ONAP and 3GPP MnS | * Huawei | * revised | * S5-197674 | * S5-197830 |
| * S5-197777 | * LS to ONAP on 3GPP MnS integration with VES | * Ericsson | * revised | * - | * S5-197831 |
| * S5-197778 | * Draft management services TS 28aaa-000 | * AT&T GNS Belgium SPRL | * approved | * S5-197599 | * - |
| * S5-197779 | * Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | * HUAWEI TECHNOLOGIES Co. Ltd. | * not pursued | * S5-197580 | * - |
| * S5-197780 | * Add background of relevant study in other SDOs or industry parties | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * approved | * S5-197675 | * - |
| * S5-197781 | * pCR Add UC on MDA assisted energy saving | * China Telecom Corporation Ltd. | * revised | * S5-197680 | * S5-197810 |
| * S5-197782 | * Minutes of Study on non-public networks management | * Rapporteur (Huawei) | * noted | * S5-197036 | * - |
| * S5-197783 | * Minutes of Network policy management for mobile networks based on NFV scenarios | * Rapporteur (China Mobile) | * noted | * S5-197019 | * - |
| * S5-197784 | * Handling of separate code files | * Chairman | * endorsed | * - | * - |
| * S5-197785 | * Reply LS on clarification of OAM requirements for RIM | * R3-197540 | * postponed | * - | * - |
| * S5-197786 | * pCR 28.535 Interaction with core network for service assurance | * Huawei | * revised | * S5-197584 | * S5-197833 |
| * S5-197787 | * pCR 28.535 Service quality assurance and optimization | * L.M. Ericsson Limited | * approved | * S5-197749 | * - |
| * S5-197788 | * pCR 28.536 Add Overview of interfaces | * L.M. Ericsson Limited | * approved | * S5-197653 | * - |
| * S5-197789 | * Presentation of TS 28.535 for information to SA#86 | * L.M. Ericsson Limited | * approved | * S5-197478 | * - |
| * S5-197790 | * pCR 28.313 D-SON PCI configuration use case | * Intel Corporation (UK) Ltd, Huawei | * approved | * S5-197555 | * - |
| * S5-197791 | * pCR 28.313 C-SON PCI configuration use case | * Intel Corporation (UK) Ltd | * approved | * S5-197593 | * - |
| * S5-197792 | * pCR 28.313 D-SON PCI configuration procedure | * Intel Corporation (UK) Ltd | * approved | * S5-197590 | * - |
| * S5-197793 | * pCR 28.313 C-SON PCI configuration procedure | * Intel Corporation (UK) Ltd | * approved | * S5-197594 | * - |
| * S5-197794 | * pCR 28.313 D-SON PCI configuration information | * Intel Corporation (UK) Ltd | * revised | * S5-197592 | * S5-197835 |
| * S5-197795 | * pCR 28.313 C-SON PCI configuration information | * Intel Corporation (UK) Ltd | * revised | * S5-197595 | * S5-197836 |
| * S5-197796 | * pCR 28.313 Add Concept for Establishment of new NE in network | * China Telecommunications, Huawei | * approved | * S5-197602 | * - |
| * S5-197797 | * Discussion paper about multi-tenancy use cases in 3GPP management system | * Huawei | * revised | * S5-197576 | * S5-197841 |
| * S5-197798 | * Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * agreed | * S5-197622 | * - |
| * S5-197799 | * Add potential solution for network autonomy level | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * approved | * S5-197425 | * - |
| * S5-197800 | * Add potential requirement for management of NPN | * China Mobile Com. Corporation, Huawei | * approved | * S5-197562 | * - |
| * S5-197801 | * Potential Rel-17 SA5 OAM work area | * HiSilicon Technologies Co. Ltd | * revised | * S5-197549 | * S5-197816 |
| * S5-197802 | * LS out on GSMA GST | * SA5 | * revised | * S5-197630 | * S5-197853 |
| * S5-197803 | * Add Automatic CSI to NSI mapping use case | * China Mobile E-Commerce Co. | * approved | * S5-197626 | * - |
| * S5-197804 | * Presentation of TS 28.861 for approval to SA#86 | * Intel | * approved | * S5-197631 | * - |
| * S5-197805 | * LS on network sharing with non-public networks | * Huawei | * approved | * S5-197559 | * - |
| * S5-197806 | * LS on CAG | * Huawei | * approved | * S5-197560 | * - |
| * S5-197807 | * pCR Add MDA role in the management loop | * Intel Corporation SAS | * approved | * S5-197708 | * - |
| * S5-197808 | * pCR 28.809 Add the use case of alarm incident analysis as one of the fault management related issues | * Huawei | * approved | * S5-197712 | * - |
| * S5-197809 | * pCR 28.809 Add UC on handover optimization | * Samsung Electronics GmbH | * approved | * S5-197713 | * - |
| * S5-197810 | * pCR Add UC on MDA assisted energy saving | * China Telecom Corporation Ltd. | * approved | * S5-197781 | * - |
| * S5-197811 | * pCR 28.810 addition of multi-domain/layer/technology orchestration automation use case and requirement | * ETRI | * approved | * S5-197701 | * - |
| * S5-197812 | * pCR 28.810 Add coverage optimization scenario exampe for classification of network autonomy levels | * Huawei, China Mobile, China Unicom, ZTE | * approved | * S5-197703 | * - |
| * S5-197813 | * pCR 28.810 Add NE deployment scenario exampe for classification of network autonomy levels | * Huawei, China Mobile, China Unicom, ZTE | * approved | * S5-197704 | * - |
| * S5-197814 | * Reply to: LS to SA5 on whether new 5QI needs for IAB OAM traffic | * Intel | * approved | * S5-197542 | * - |
| * S5-197815 | * Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * Ericsson | * revised | * S5-197546 | * S5-197839 |
| * S5-197816 | * Potential Rel-17 SA5 OAM work area | * HiSilicon Technologies Co. Ltd | * noted | * S5-197801 | * - |
| * S5-197817 | * New WID on 5G management capabilities | * AT&T, Orange,Deutsche Telekom | * agreed | * S5-197716 | * - |
| * S5-197818 | * pCR 28.313 Update the requirements for ANR management in NG-RAN | * Huawei | * approved | * S5-197552 | * - |
| * S5-197819 | * pCR 28.313 Add solutions for ANR management | * Huawei | * approved | * S5-197553 | * - |
| * S5-197820 | * pCR 28.810 Add concept of network autonomy | * Huawei, China Mobile, China Unicom, ZTE | * approved | * S5-197677 | * - |
| * S5-197821 | * pCR 28.810 Add concept of network autonomy level | * Huawei, China Mobile, China Unicom, ZTE | * approved | * S5-197678 | * - |
| * S5-197822 | * pCR 28.810 pCR 28.810 Add potential dimensions for classification of network autonomy level | * Huawei, China Mobile, China Unicom, ZTE | * approved | * S5-197745 | * - |
| * S5-197823 | * WI\_revised\_Management Aspects of 5G Service-Level Agreement | * China Mobile E-Commerce Co. | * agreed | * S5-197633 | * - |
| * S5-197824 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * revised | * S5-197771 | * S5-197840 |
| * S5-197825 | * CR 32.158 Clarify design pattern for scoping and filtering | * Nokia, Nokia Shanghai Bell | * agreed | * S5-197720 | * - |
| * S5-197826 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * agreed | * S5-197770 | * - |
| * S5-197827 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * agreed | * S5-197773 | * - |
| * S5-197828 | * Rel-16 CR 28.622 Add heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell. Orange | * agreed | * S5-197646 | * - |
| * S5-197829 | * Rel-16 CR 28.622 Add subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * agreed | * S5-197649 | * - |
| * S5-197830 | * Discussion on potential ways for integration of ONAP and 3GPP MnS | * Huawei | * endorsed | * S5-197776 | * - |
| * S5-197831 | * LS to ONAP on 3GPP MnS integration with VES | * Ericsson | * approved | * S5-197777 | * - |
| * S5-197832 | * Rel-17 pCR TR 28.809 Add management interaction with NWDAF | * HUAWEI TECHNOLOGIES Co. Ltd. | * approved | * - | * - |
| * S5-197833 | * pCR 28.535 Interaction with core network for service assurance | * Huawei | * approved | * S5-197786 | * - |
| * S5-197834 | * Add description of communication service lifecycle prepareation phase | * China Mobile E-Commerce Co. | * noted | * S5-197583 | * - |
| * S5-197835 | * pCR 28.313 D-SON PCI configuration information | * Intel Corporation (UK) Ltd | * approved | * S5-197794 | * - |
| * S5-197836 | * pCR 28.313 C-SON PCI configuration information | * Intel Corporation (UK) Ltd | * approved | * S5-197795 | * - |
| * S5-197837 | * CR 28.541 Management of NR ANR, Stage 2 | * Ericsson France S.A.S | * agreed | * S5-197554 | * - |
| * S5-197838 | * Add potential solution for network autonomy level | * China Mobile Com. Corporation, Huawei, China Unicom, ZTE | * withdrawn | * S5-197799 | * - |
| * S5-197839 | * Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * Ericsson | * approved | * S5-197815 | * - |
| * S5-197840 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * agreed | * S5-197824 | * - |
| * S5-197841 | * Discussion paper about multi-tenancy use cases in 3GPP management system | * Huawei | * endorsed | * S5-197797 | * - |
| * S5-197842 | * Draft TS 28.310 | * Orange | * approved | * - | * - |
| * S5-197843 | * Draft TS 28.311 | * China Mobile | * approved | * - | * - |
| * S5-197844 | * Draft TR 28.812 | * Huawei | * approved | * - | * - |
| * S5-197845 | * Draft TS 28.535 | * Ericsson | * approved | * - | * - |
| * S5-197846 | * Draft TS 28.536 | * Ericsson | * approved | * - | * - |
| * S5-197847 | * Draft TS 28.313 | * Intel | * approved | * - | * - |
| * S5-197848 | * Draft TR 28.861 | * Intel | * approved | * - | * - |
| * S5-197849 | * Draft TR 28.807 | * Huawei | * approved | * - | * - |
| * S5-197850 | * Draft TR 28.808 | * Thales | * approved | * - | * - |
| * S5-197851 | * Draft TR 28.809 | * Intel | * approved | * - | * - |
| * S5-197852 | * Draft TR 28.810 | * China Mobile | * approved | * - | * - |
| * S5-197853 | * LS out on GSMA GST | * China Mobile | * approved | * S5-197802 | * - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| * S5-197156 | * Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * 28.530 | * 0012 | * - | * Rel-15 | * F | * TEI15, NETSLICE | * revised |
| * S5-197738 | * Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * 28.530 | * 0012 | * 1 | * Rel-15 | * F | * NETSLICE | * revised |
| * S5-197758 | * Rel-15 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * 28.530 | * 0012 | * 2 | * Rel-15 | * F | * NETSLICE | * agreed |
| * S5-197157 | * Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * 28.530 | * 0013 | * - | * Rel-16 | * A | * TEI16, NETSLICE | * revised |
| * S5-197739 | * Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * 28.530 | * 0013 | * 1 | * Rel-16 | * A | * NETSLICE | * revised |
| * S5-197759 | * Rel-16 CR TS 28.530 Fix inconsistencies in the usage of word instance | * Huawei | * 28.530 | * 0013 | * 2 | * Rel-16 | * A | * NETSLICE | * agreed |
| * S5-197272 | * Add requirements of network slicing management for creation of a network slice instance or network slice subnet instance according to the template | * China Mobile | * 28.530 | * 0014 | * - | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197273 | * Add requirements of network slicing management for activation or deactivation of a communication service supported in the network slice instance | * China Mobile | * 28.530 | * 0015 | * - | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197158 | * 15 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * 28.531 | * 0035 | * - | * Rel-15 | * F | * TEI15, NETSLICE | * revised |
| * S5-197722 | * 15 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * 28.531 | * 0035 | * 1 | * Rel-15 | * F | * TEI15, NETSLICE | * not pursued |
| * S5-197159 | * Rel-16 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * 28.531 | * 0036 | * - | * Rel-16 | * A | * TEI16, NETSLICE | * revised |
| * S5-197723 | * Rel-16 CR TS 28.531 Fix inconsistencies in the usage of word instance | * Huawei | * 28.531 | * 0036 | * 1 | * Rel-16 | * A | * TEI16, NETSLICE | * not pursued |
| * S5-197405 | * Rel-16 CR 28.531 Update allocation and deallocation procedures | * Nokia, Nokia Shanghai Bell | * 28.531 | * 0037 | * - | * Rel-16 | * C | * eNRM | * not pursued |
| * S5-197636 | * Rel-16 CR 28.531 Update allocation and deallocation procedures | * Nokia, Nokia Shanghai Bell | * 28.531 | * 0037 | * 1 | * Rel-16 | * C | * eNRM | * withdrawn |
| * S5-197407 | * Modification to the existed provisioning procedure after considering SLA requirements | * China Mobile E-Commerce Co | * 28.531 | * 0038 | * - | * Rel-16 | * B | * MA5SLA | * not pursued |
| * S5-197428 | * Rel-16 CR 28.532 Make scoping and filtering optional in CRUD operations | * Nokia, Nokia Shanghai Bell | * 28.532 | * 0069 | * 1 | * Rel-16 | * C | * NETSLICE | * revised |
| * S5-197761 | * Rel-16 CR 28.532 Make scoping and filtering optional in CRUD operations | * Nokia, Nokia Shanghai Bell | * 28.532 | * 0069 | * 2 | * Rel-16 | * C | * TEI16,REST\_SS | * agreed |
| * S5-197236 | * YANG\_Netconf CM Notifications | * Ericsson España S.A. | * 28.532 | * 0070 | * 2 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197247 | * YANG\_Netconf Operations | * Ericsson España S.A. | * 28.532 | * 0070 | * 3 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197718 | * YANG\_Netconf Operations | * Ericsson España S.A., Huawei, China Mobile, Teleom Italia, Orange | * 28.532 | * 0070 | * 4 | * Rel-16 | * B | * eNRM | * not pursued |
| * S5-197717 | * YANG\_Netconf CM Notifications | * Ericsson España S.A.,Telecom Italia, Orange, China Mobile | * 28.532 | * 0070 | * 5 | * Rel-16 | * B | * eNRM | * not pursued |
| * S5-197429 | * CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | * Nokia, Nokia Shanghai Bell | * 28.532 | * 0071 | * 1 | * Rel-16 | * F | * NETSLICE | * revised |
| * S5-197762 | * CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | * Nokia, Nokia Shanghai Bell | * 28.532 | * 0071 | * 2 | * Rel-16 | * F | * TEI16,NETSLICE | * agreed |
| * S5-197044 | * Rel-16 CR 28.532 Repair broken links in References | * AT&T, Deutsche Telekom, Orange | * 28.532 | * 0072 | * 1 | * Rel-16 | * F | * ONAP3GPP | * not pursued |
| * S5-197052 | * Rel-16 CR 28.532 Introduce Heartbeat MnS | * AT&T, Deutsche Telekom, Orange | * 28.532 | * 0073 | * - | * Rel-16 | * B | * ONAP3GPP | * revised |
| * S5-197597 | * Rel-16 CR 28.532 Introduce Heartbeat MnS | * AT&T, Deutsche Telekom, Orange | * 28.532 | * 0073 | * 1 | * Rel-16 | * B | * ONAP3GPP | * revised |
| * S5-197775 | * Rel-16 CR 28.532 Introduce Heartbeat MnS | * AT&T, Orange | * 28.532 | * 0073 | * 2 | * Rel-16 | * B | * ONAP3GPP | * agreed |
| * S5-197081 | * CR Rel-15 28.532 v1530 correct event time defn | * Ericsson Inc. | * 28.532 | * 0074 | * - | * Rel-15 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197736 | * CR Rel-15 28.532 v1530 correct event time defn | * Ericsson Inc. | * 28.532 | * 0074 | * 1 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197082 | * Correct event time defn | * Ericsson Inc. | * 28.532 | * 0075 | * - | * Rel-16 | * A | * NETSLICE-5GNRM | * revised |
| * S5-197737 | * Correct event time defn | * Ericsson Inc. | * 28.532 | * 0075 | * 1 | * Rel-16 | * A | * NETSLICE-5GNRM | * agreed |
| * S5-197083 | * Add notifyAlert | * Ericsson Inc. | * 28.532 | * 0076 | * - | * Rel-16 | * B | * eNRM | * revised |
| * S5-197740 | * Add notifyAlert | * Ericsson Inc. | * 28.532 | * 0076 | * 1 | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197085 | * Add configurable FM | * Ericsson Inc. | * 28.532 | * 0077 | * - | * Rel-16 | * C | * eNRM | * withdrawn |
| * S5-197162 | * Rel-16 CR TS 28.532 Discover MnS instance | * Huawei | * 28.532 | * 0078 | * - | * Rel-16 | * B | * 5GDMS | * revised |
| * S5-197604 | * Rel-16 CR TS 28.532 Discover MnS instance | * Huawei | * 28.532 | * 0078 | * 1 | * Rel-16 | * B | * 5GDMS | * not pursued |
| * S5-197163 | * Rel-16 CR TS 28.532 Add stage 2 and 3 for MnS discovery service | * Huawei | * 28.532 | * 0079 | * - | * Rel-16 | * B | * 5GDMS | * not pursued |
| * S5-197191 | * Rel-16 CR 28.532 RESTful PM file-based notifications for integration with ONAP VES | * AT&T, Ericsson, Orange | * 28.532 | * 0080 | * - | * Rel-16 | * B | * ONAP3GPP | * not pursued |
| * S5-197444 | * Correct schema to reflect location in the specifications | * Ericsson India Private Limited | * 28.532 | * 0081 | * - | * Rel-16 | * F | * NETSLICE | * revised |
| * S5-197741 | * Correct schema to reflect location in the specifications | * Ericsson India Private Limited | * 28.532 | * 0081 | * 1 | * Rel-16 | * F | * TEI16 | * agreed |
| * S5-197742 | * Correct XML Schema for consistency and clarity | * Ericsson India Private Limited | * 28.532 | * 0082 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * S5-197295 | * Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | * HUAWEI TECHNOLOGIES Co. Ltd. | * 28.533 | * 0045 | * 2 | * Rel-16 | * B | * COSLA | * revised |
| * S5-197580 | * Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | * HUAWEI TECHNOLOGIES Co. Ltd. | * 28.533 | * 0045 | * 3 | * Rel-16 | * B | * COSLA | * revised |
| * S5-197779 | * Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | * HUAWEI TECHNOLOGIES Co. Ltd. | * 28.533 | * 0045 | * 4 | * Rel-16 | * B | * COSLA | * not pursued |
| * S5-197086 | * Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * 28.533 | * 0046 | * - | * Rel-15 | * F | * NETSLICE | * revised |
| * S5-197725 | * Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * 28.533 | * 0046 | * 1 | * Rel-15 | * F | * NETSLICE | * revised |
| * S5-197755 | * Rel-15 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * 28.533 | * 0046 | * 2 | * Rel-15 | * F | * NETSLICE | * agreed |
| * S5-197087 | * Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * 28.533 | * 0047 | * - | * Rel-16 | * A | * NETSLICE | * revised |
| * S5-197726 | * Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * 28.533 | * 0047 | * 1 | * Rel-16 | * A | * NETSLICE | * revised |
| * S5-197756 | * Rel-16 CR TS 28.533 Correction on example of MnS deployment scenario in clause 4.5 | * Huawei | * 28.533 | * 0047 | * 2 | * Rel-16 | * A | * NETSLICE | * agreed |
| * S5-197088 | * Rel-16 CR TS 28.533 Add example of utilization of MnS(s) for different network deployment scenarios | * Huawei | * 28.533 | * 0048 | * - | * Rel-16 | * F | * TEI16 | * withdrawn |
| * S5-197104 | * Rel-16 CR TS 28.533 Some correction on the reference in Clause 5.3 | * Huawei Technologies Japan K.K. | * 28.533 | * 0049 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * S5-197161 | * Rel-16 CR TS 28.533 Get MnS instance URI | * Huawei | * 28.533 | * 0050 | * - | * Rel-16 | * B | * 5GDMS | * revised |
| * S5-197603 | * Rel-16 CR TS 28.533 Get MnS instance URI | * Huawei | * 28.533 | * 0050 | * 1 | * Rel-16 | * B | * 5GDMS | * not pursued |
| * S5-197398 | * Rel-16 CR 32.533 Introduce a MnS profile | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0051 | * - | * Rel-16 | * B | * 5GDMS | * revised |
| * S5-197606 | * Rel-16 CR 32.533 Introduce a MnS profile | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0051 | * 1 | * Rel-16 | * B | * 5GDMS | * agreed |
| * S5-197399 | * Rel-16 CR 32.533 Add MnS discovery | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0052 | * - | * Rel-16 | * B | * 5GDMS | * not pursued |
| * S5-197605 | * Rel-16 CR 32.533 Add MnS discovery | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0052 | * 1 | * Rel-16 | * B | * 5GDMS | * withdrawn |
| * S5-197409 | * Rel-16 CR 32.533 Clarify numerous definitions | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0053 | * - | * Rel-16 | * D | * METHOGY | * revised |
| * S5-197728 | * Rel-16 CR 28.533 Clarify numerous definitions | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0053 | * 1 | * Rel-16 | * A | * NETSLICE | * agreed |
| * S5-197729 | * Rel-16 CR 28.533 Clarify numerous definitions | * Nokia, Nokia Shanghai Bell | * 28.533 | * 0054 | * - | * Rel-15 | * F | * NETSLICE | * agreed |
| * S5-197121 | * Rel-16 CR TS 28.540 Update the requirements for remote interference management | * Huawei | * 28.540 | * 0006 | * - | * Rel-16 | * B | * eNRM | * withdrawn |
| * S5-197333 | * Rel-16 CR TS 28.540 Add requirement on NR active antenna system (AAS) configuration | * Ericsson LM | * 28.540 | * 0007 | * - | * Rel-16 | * B | * eNRM | * revised |
| * S5-197598 | * Rel-16 CR TS 28.540 Add requirement on NR active antenna system (AAS) configuration | * Ericsson LM, Huawei | * 28.540 | * 0007 | * 1 | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197461 | * Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * 28.541 | * 0051 | * 13 | * Rel-15 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197640 | * Rel-15 CR TS 28.541 Stages 2 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * 28.541 | * 0051 | * 14 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197079 | * Correct NR TAC attribute property | * Ericsson LM | * 28.541 | * 0160 | * 1 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197089 | * Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | * Huawei | * 28.541 | * 0163 | * 1 | * Rel-16 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197634 | * Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | * Huawei | * 28.541 | * 0163 | * 2 | * Rel-16 | * F | * NETSLICE-5GNRM | * conditionally agreed |
| * S5-197090 | * Rel-16 CR TS 28.541 Update on RRMPolicy | * Huawei | * 28.541 | * 0165 | * 1 | * Rel-16 | * F | * NETSLICE-5GNRM | * merged |
| * S5-197080 | * Correct NR TAC attribute property | * Ericsson LM | * 28.541 | * 0168 | * 1 | * Rel-16 | * A | * NETSLICE-5GNRM | * revised |
| * S5-197754 | * Correct NR TAC attribute property | * Ericsson LM | * 28.541 | * 0168 | * 2 | * Rel-16 | * A | * NETSLICE-5GNRM | * agreed |
| * S5-197059 | * Rel-16 CR TS 28.541 XML Solution Set for 5GC | * CATT,Huawei | * 28.541 | * 0175 | * 1 | * Rel-16 | * F | * eNRM | * revised |
| * S5-197730 | * Rel-16 CR TS 28.541 XML Solution Set for 5GC | * CATT,Huawei | * 28.541 | * 0175 | * 2 | * Rel-16 | * F | * eNRM | * agreed |
| * S5-197100 | * Rel-16 CR TS 28.541 Update on slice model | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0177 | * 2 | * Rel-16 | * C | * MA5SLA | * revised |
| * S5-197621 | * Rel-16 CR TS 28.541 Update on slice model | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0177 | * 3 | * Rel-16 | * C | * MA5SLA | * agreed |
| * S5-197427 | * Rel-16 CR 28.541 Update of RRM Policy | * Ericsson LM | * 28.541 | * 0179 | * 1 | * Rel-16 | * C | * eNRM | * revised |
| * S5-197638 | * Rel-16 CR 28.541 Update of RRM Policy | * Ericsson LM | * 28.541 | * 0179 | * 2 | * Rel-16 | * C | * eNRM | * conditionally agreed |
| * S5-197168 | * Update SEPP Stage 2 definition in 5GC NRM | * Nokia Korea | * 28.541 | * 0180 | * 3 | * Rel-16 | * F | * eNRM | * agreed |
| * S5-197171 | * Fix merging errors of the specification | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0192 | * 1 | * Rel-16 | * F | * eNRM | * agreed |
| * S5-197462 | * Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * 28.541 | * 0193 | * 2 | * Rel-15 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197641 | * Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * 28.541 | * 0193 | * 3 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197101 | * Rel-16 CR TS 28.541 Update XML definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0198 | * - | * Rel-16 | * C | * MA5SLA | * revised |
| * S5-197589 | * Rel-16 CR TS 28.541 Update XML definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0198 | * 1 | * Rel-16 | * C | * MA5SLA | * agreed |
| * S5-197102 | * Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0199 | * - | * Rel-16 | * C | * MA5SLA | * revised |
| * S5-197622 | * Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0199 | * 1 | * Rel-16 | * C | * MA5SLA | * revised |
| * S5-197798 | * Rel-16 CR TS 28.541 Update JSON definitions of ServiceProfile NRM | * Huawei, China Mobile, Nokia, Nokia Shanghai Bell | * 28.541 | * 0199 | * 2 | * Rel-16 | * C | * MA5SLA | * agreed |
| * S5-197105 | * Add managedNFProfile definition for ngc NRM - stage3 | * CATT | * 28.541 | * 0200 | * - | * Rel-16 | * C | * eNRM | * revised |
| * S5-197757 | * Add managedNFProfile definition for ngc NRM - stage3 | * CATT | * 28.541 | * 0200 | * 1 | * Rel-16 | * C | * eNRM | * agreed |
| * S5-197122 | * Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management | * Huawei | * 28.541 | * 0201 | * - | * Rel-16 | * B | * eNRM | * not pursued |
| * S5-197123 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * 28.541 | * 0202 | * - | * Rel-16 | * B | * eNRM | * revised |
| * S5-197644 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * 28.541 | * 0202 | * 1 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197773 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * 28.541 | * 0202 | * 2 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197827 | * Rel-16 CR TS 28.541 Add the RIM monitoring parameters for remote interference management | * Huawei | * 28.541 | * 0202 | * 3 | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197152 | * Add attribute to describe different types of isolation for network slice | * China Mobile | * 28.541 | * 0203 | * - | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197153 | * Add attributes for network slice supports IMS and SSC mode | * China Mobile | * 28.541 | * 0204 | * - | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197165 | * Rel-16 CR TS 28.541 Add tenant information to support multiple tenants environment | * Huawei | * 28.541 | * 0205 | * - | * Rel-16 | * B | * MEMTANE | * revised |
| * S5-197577 | * Rel-16 CR TS 28.541 Add tenant information to support multiple tenants environment | * Huawei | * 28.541 | * 0205 | * 1 | * Rel-16 | * B | * MEMTANE | * not pursued |
| * S5-197169 | * Update definition of attributes related to RRMPolicy | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0206 | * - | * Rel-15 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197639 | * Update definition of attributes related to RRMPolicy | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0206 | * 1 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197170 | * Update definition of attributes related to RRMPolicy | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0207 | * - | * Rel-16 | * A | * eNRM | * merged |
| * S5-197270 | * Add attribute properties for network slice supports IMS and SSC mode | * China Mobile | * 28.541 | * 0208 | * - | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197271 | * Add attribute to describe different types of isolation for network slice | * China Mobile | * 28.541 | * 0209 | * - | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197283 | * Add attribute properties for network slice supports IMS and SSC mode | * China Mobile | * 28.541 | * 0210 | * - | * Rel-16 | * B | * MA5SLA | * revised |
| * S5-197474 | * Add attribute properties for network slice supports IMS and SSC mode | * China Mobile Com. Corporation | * 28.541 | * 0210 | * 1 | * Rel-16 | * B | * MA5SLA | * not treated |
| * S5-197284 | * Add attribute properties for attribute isolationLevel,physicalIsolation and logicalIsolation | * China Mobile | * 28.541 | * 0211 | * - | * Rel-16 | * B | * MA5SLA | * revised |
| * S5-197475 | * Add attribute properties for attribute isolationLevel,physicalIsolation and logicalIsolation | * China Mobile Com. Corporation | * 28.541 | * 0211 | * 1 | * Rel-16 | * B | * MA5SLA | * not treated |
| * S5-197291 | * Correct Network slice NRM | * CATT | * 28.541 | * 0212 | * - | * Rel-16 | * F | * eNRM | * revised |
| * S5-197724 | * Correct Network slice NRM | * CATT | * 28.541 | * 0212 | * 1 | * Rel-16 | * F | * eNRM | * revised |
| * S5-197760 | * Correct Network slice NRM | * CATT | * 28.541 | * 0212 | * 2 | * Rel-16 | * F | * eNRM | * agreed |
| * S5-197321 | * Update Stage 3 SEPP definition in 5GC NRM | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0213 | * - | * Rel-16 | * F | * eNRM | * agreed |
| * S5-197327 | * Rel15 Refine NRM JSON structure | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0214 | * - | * Rel-15 | * F | * NETSLICE-5GNRM | * not pursued |
| * S5-197331 | * Rel16 Refine NRM JSON structure | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0215 | * - | * Rel-16 | * F | * eNRM | * not pursued |
| * S5-197334 | * Rel-16 CR TS 28.541 Add NRM Info Model definitions for active antenna systems (AAS) | * Ericsson LM | * 28.541 | * 0216 | * - | * Rel-16 | * B | * eNRM | * merged |
| * S5-197403 | * Rel-16 CR 28.541 Add NRM fragment for resource allocation and deallocation | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0217 | * - | * Rel-16 | * B | * eNRM | * not pursued |
| * S5-197635 | * Rel-16 CR 28.541 Add NRM fragment for resource allocation and deallocation | * Nokia, Nokia Shanghai Bell | * 28.541 | * 0217 | * 1 | * Rel-16 | * B | * eNRM | * withdrawn |
| * S5-197410 | * Add attribute properties for isolationLevelCN, isolationLevelTN and isolationLevelAN | * China Mobile E-Commerce Co | * 28.541 | * 0218 | * - | * Rel-16 | * B | * MA5SLA | * not pursued |
| * S5-197411 | * Add attribute to describe different types of isolation for network slice | * China Mobile E-Commerce Co | * 28.541 | * 0219 | * - | * Rel-16 | * B | * MA5SLA | * not pursued |
| * S5-197412 | * Add attribute property of coverage type | * China Mobile E-Commerce Co | * 28.541 | * 0220 | * - | * Rel-16 | * B | * MA5SLA | * merged |
| * S5-197414 | * Add attribute to describe different coverage types of network slice | * China Mobile E-Commerce Co | * 28.541 | * 0221 | * - | * Rel-16 | * B | * MA5SLA | * revised |
| * S5-197624 | * Add attribute to describe different coverage types of network slice | * China Mobile E-Commerce Co | * 28.541 | * 0221 | * 1 | * Rel-16 | * B | * MA5SLA | * withdrawn |
| * S5-197421 | * CR 28.541 Management of NR ANR, Stage 2 | * Ericsson France S.A.S | * 28.541 | * 0222 | * - | * Rel-16 | * B | * SON\_5G | * revised |
| * S5-197554 | * CR 28.541 Management of NR ANR, Stage 2 | * Ericsson France S.A.S | * 28.541 | * 0222 | * 1 | * Rel-16 | * B | * SON\_5G | * revised |
| * S5-197837 | * CR 28.541 Management of NR ANR, Stage 2 | * Ericsson France S.A.S | * 28.541 | * 0222 | * 2 | * Rel-16 | * B | * SON\_5G | * agreed |
| * S5-197422 | * CR 28.541 Management of NR ANR, Stage 3 | * Ericsson France S.A.S | * 28.541 | * 0223 | * - | * Rel-16 | * B | * SON\_5G | * agreed |
| * S5-197433 | * Rel-16 CR TS 28.541 Stage 3 for Add NRM Info Model definitions for active antenna systems (AAS) | * Ericsson LM | * 28.541 | * 0224 | * - | * Rel-16 | * B | * eNRM | * withdrawn |
| * S5-197434 | * Rel-16 CR TS 28.541 Stage 3 for Add NRM Info Model definitions for active antenna systems (AAS) | * Ericsson LM | * 28.541 | * 0225 | * - | * Rel-16 | * B | * eNRM | * merged |
| * S5-197463 | * Rel-16 CR TS 28.541 Stages 2 and 3 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange | * 28.541 | * 0226 | * - | * Rel-16 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197642 | * Rel-16 CR TS 28.541 Stages 2 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange, Huawei | * 28.541 | * 0226 | * 1 | * Rel-16 | * A | * NETSLICE-5GNRM | * agreed |
| * S5-197643 | * Rel-16 CR TS 28.541 Stages 3 Add NRM Info Model definitions for beam managed object classes for Rel-15 Mirror | * Pivotal Commware, Intel, Ericsson, ZTE, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom, Orange, Huawei | * 28.541 | * 0227 | * - | * Rel-16 | * A | * NETSLICE-5GNRM | * agreed |
| * S5-197166 | * Rel-16 CR TS 28.545 Enhance fault management service for tenant support | * Huawei | * 28.545 | * 0003 | * - | * Rel-16 | * B | * MEMTANE | * not pursued |
| * S5-197053 | * [Resubmitted] Rel-15 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * 28.550 | * 0032 | * 1 | * Rel-15 | * F | * NETSLICE-ADPM5G | * revised |
| * S5-197731 | * [Resubmitted] Rel-15 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * 28.550 | * 0032 | * 2 | * Rel-15 | * F | * NETSLICE-ADPM5G | * agreed |
| * S5-197054 | * [Resubmitted] Rel-16 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * 28.550 | * 0033 | * 1 | * Rel-16 | * A | * NETSLICE-ADPM5G | * revised |
| * S5-197732 | * [Resubmitted] Rel-16 CR 28.550 Add stream information management related operations | * Intel Finland Oy | * 28.550 | * 0033 | * 2 | * Rel-16 | * A | * NETSLICE-ADPM5G | * agreed |
| * S5-197286 | * Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | * China Telecommunications, ZTE | * 28.550 | * 0034 | * 3 | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * revised |
| * S5-197571 | * Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | * China Telecommunications, ZTE | * 28.550 | * 0034 | * 4 | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * agreed |
| * S5-197167 | * Rel-16 CR TS 28.550 Enhance performance management service for tenant support | * Huawei | * 28.550 | * 0040 | * - | * Rel-16 | * B | * MEMTANE | * not pursued |
| * S5-197240 | * Rel-16 CR TS 28.550 Add UC and requirements for KPI job control | * China Telecommunications, ZTE | * 28.550 | * 0041 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * withdrawn |
| * S5-197278 | * Rel-16 CR TS 28.550 Enhace performance data report related operations | * ZTE Corporation, China Telecom | * 28.550 | * 0042 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * revised |
| * S5-197572 | * Rel-16 CR TS 28.550 Enhace performance data report related operations | * ZTE Corporation, China Telecom | * 28.550 | * 0042 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * agreed |
| * S5-197055 | * [Resubmitted] Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN | * Intel Finland Oy | * 28.552 | * 0145 | * 2 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197043 | * Add definitions of PDCP end user throughput measurements | * Nokia Solutions & Networks (I) | * 28.552 | * 0150 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * not pursued |
| * S5-197565 | * Add definitions of PDCP end user throughput measurements | * Nokia Solutions & Networks (I) | * 28.552 | * 0150 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * withdrawn |
| * S5-197060 | * Rel-16 CR 28.552 Add measurements related to NF service registration and update | * Intel Corporation SAS | * 28.552 | * 0151 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197061 | * Rel-16 CR 28.552 Add measurements related to NF service discovery | * Intel Corporation SAS | * 28.552 | * 0152 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197062 | * Rel-16 CR 28.552 Add measurements related to UE policy association | * Intel Corporation SAS | * 28.552 | * 0153 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197063 | * Rel-16 CR 28.552 Add measurements related to PFD management | * Intel Corporation SAS | * 28.552 | * 0154 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197064 | * Rel-16 CR 28.552 Add measurements related to QoS flow release in the untrusted non-3GPP access | * Intel Corporation SAS | * 28.552 | * 0155 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197065 | * Rel-16 CR 28.552 Add measured object NRCellRelation to the HO related measurements | * Intel Corporation SAS | * 28.552 | * 0156 | * - | * Rel-16 | * C | * 5G\_SLICE\_ePA | * revised |
| * S5-197564 | * Rel-16 CR 28.552 Add measured object NRCellRelation to the HO related measurements | * Intel Corporation SAS | * 28.552 | * 0156 | * 1 | * Rel-16 | * C | * 5G\_SLICE\_ePA | * agreed |
| * S5-197155 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * 28.552 | * 0157 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197600 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * 28.552 | * 0157 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197770 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * 28.552 | * 0157 | * 2 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197826 | * Rel-16 CR TS 28.552 Adding measurement of packets out-of-order | * Huawei | * 28.552 | * 0157 | * 3 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197322 | * Rel-16 CR TS 28.552 Packet Drop Rate measurements update | * Ericsson LM,Verizon | * 28.552 | * 0158 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197566 | * Rel-16 CR TS 28.552 Packet Drop Rate measurements update | * Ericsson LM,,Verizon | * 28.552 | * 0158 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197323 | * Rel-16 CR TS 28.552 Packet Loss Rate measurements update | * Ericsson LM,Verizon | * 28.552 | * 0159 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197567 | * Rel-16 CR TS 28.552 Packet Loss Rate measurements update | * Ericsson LM,,Verizon | * 28.552 | * 0159 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197325 | * Rel-16 CR TS 28.552 PDCP Data Volume measurements update | * Ericsson LM,Verizon | * 28.552 | * 0160 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197568 | * Rel-16 CR TS 28.552 PDCP Data Volume measurements update | * Ericsson LM,Verizon | * 28.552 | * 0160 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197329 | * Rel-16 CR TS 28.552 UE Throughput measurements update | * Ericsson LM,Verizon | * 28.552 | * 0161 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * revised |
| * S5-197569 | * Rel-16 CR TS 28.552 UE Throughput measurements update | * Ericsson LM,Verizon | * 28.552 | * 0161 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA | * agreed |
| * S5-197332 | * Add use case and definitions of UL user plane packet delay measurement from UE to UPF | * ETRI | * 28.552 | * 0162 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA | * not pursued |
| * S5-197727 | * Rel-16 CR 28.552 Add use case of monitoring of PCI to detect PCI collision or confusion | * Intel | * 28.552 | * 0163 | * - | * Rel-16 | * B | * SON\_5G | * agreed |
| * S5-197296 | * Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | * Huawei, ZTE, China Telecom | * 28.554 | * 0036 | * - | * Rel-16 | * F | * 5G\_SLICE\_ePA-KPI | * revised |
| * S5-197575 | * Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | * Huawei, ZTE, China Telecom | * 28.554 | * 0036 | * 1 | * Rel-16 | * F | * 5G\_SLICE\_ePA-KPI | * agreed |
| * S5-197262 | * Add support of Configurable FM | * Ericsson LM | * 28.622 | * 0050 | * 2 | * Rel-16 | * C | * eNRM | * not pursued |
| * S5-197274 | * Rel-15 CR TS 28.622 update the definition of attribute measurementsList | * ZTE Corporation, Ericsson | * 28.622 | * 0058 | * - | * Rel-15 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197733 | * Rel-15 CR TS 28.622 update the definition of attribute measurementsList | * ZTE Corporation, Ericsson | * 28.622 | * 0058 | * 1 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197275 | * Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs | * ZTE Corporation, Ericsson | * 28.622 | * 0059 | * - | * Rel-16 | * A | * NETSLICE-5GNRM | * agreed |
| * S5-197279 | * Rel-16 CR TS 28.622 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * 28.622 | * 0060 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * revised |
| * S5-197573 | * Rel-16 CR TS 28.622 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * 28.622 | * 0060 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * not pursued |
| * S5-197386 | * Add heartbeat NRM fragment | * Ericsson Inc., Nokia, Nokia Shanghai Bell, Orange | * 28.622 | * 0061 | * - | * Rel-16 | * B | * eNRM | * merged |
| * S5-197401 | * Rel-16 CR 28.622 Add heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell. Orange | * 28.622 | * 0062 | * - | * Rel-16 | * B | * eNRM | * revised |
| * S5-197646 | * Rel-16 CR 28.622 Add heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell. Orange | * 28.622 | * 0062 | * 1 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197828 | * Rel-16 CR 28.622 Add heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell. Orange | * 28.622 | * 0062 | * 2 | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197402 | * Rel-16 CR 28.622 Add subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * 28.622 | * 0063 | * - | * Rel-16 | * B | * eNRM | * revised |
| * S5-197649 | * Rel-16 CR 28.622 Add subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * 28.622 | * 0063 | * 1 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197829 | * Rel-16 CR 28.622 Add subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * 28.622 | * 0063 | * 2 | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197276 | * Rel-15 CR TS 28.623 update the definition of attribute measurementsList | * ZTE Corporation | * 28.623 | * 0036 | * - | * Rel-15 | * F | * NETSLICE-5GNRM | * revised |
| * S5-197734 | * Rel-15 CR TS 28.623 update the definition of attribute measurementsList | * ZTE Corporation | * 28.623 | * 0036 | * 1 | * Rel-15 | * F | * NETSLICE-5GNRM | * agreed |
| * S5-197277 | * Rel-16 CR TS 28.623 Add the definition of attribute measurementsList | * ZTE Corporation | * 28.623 | * 0037 | * - | * Rel-16 | * A | * NETSLICE-5GNRM | * revised |
| * S5-197735 | * Rel-16 CR TS 28.623 Add the definition of attribute measurementsList | * ZTE Corporation | * 28.623 | * 0037 | * 1 | * Rel-16 | * A | * NETSLICE-5GNRM | * agreed |
| * S5-197280 | * Rel-16 CR TS 28.623 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * 28.623 | * 0038 | * - | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * revised |
| * S5-197574 | * Rel-16 CR TS 28.623 Add configurable KPI control NRM | * ZTE Corporation, China Telecom | * 28.623 | * 0038 | * 1 | * Rel-16 | * B | * 5G\_SLICE\_ePA-KPI | * not pursued |
| * S5-197647 | * Rel-16 CR 28.623 Add stage 3 for heartbeat control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * 28.623 | * 0039 | * - | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197648 | * Rel-16 CR 28.622 Add stage 3 for subscription control NRM fragment | * Ericsson, Nokia, Nokia Shanghai Bell, Orange | * 28.623 | * 0040 | * - | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197251 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * 32.156 | * 0036 | * - | * Rel-16 | * F | * METHOGY | * revised |
| * S5-197743 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * 32.156 | * 0036 | * 1 | * Rel-16 | * F | * METHOGY | * revised |
| * S5-197771 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * 32.156 | * 0036 | * 2 | * Rel-16 | * F | * METHOGY | * revised |
| * S5-197824 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * 32.156 | * 0036 | * 3 | * Rel-16 | * F | * METHOGY | * revised |
| * S5-197840 | * CR Rel-16 32.156 Update attribute properties table in clause 5.2.1.1 | * L.M. Ericsson Limited | * 32.156 | * 0036 | * 4 | * Rel-16 | * F | * METHOGY | * agreed |
| * S5-197418 | * CR 32.158 Clarify design pattern for scoping and filtering | * Nokia, Nokia Shanghai Bell | * 32.158 | * 0004 | * 1 | * Rel-15 | * B | * REST\_SS | * revised |
| * S5-197720 | * CR 32.158 Clarify design pattern for scoping and filtering | * Nokia, Nokia Shanghai Bell | * 32.158 | * 0004 | * 2 | * Rel-15 | * B | * REST\_SS | * revised |
| * S5-197825 | * CR 32.158 Clarify design pattern for scoping and filtering | * Nokia, Nokia Shanghai Bell | * 32.158 | * 0004 | * 3 | * Rel-15 | * F | * REST\_SS | * agreed |
| * S5-197420 | * CR 32.158 Clarify design pattern for attribute field selection | * Nokia, Nokia Shanghai Bell | * 32.158 | * 0010 | * 1 | * Rel-15 | * F | * REST\_SS | * revised |
| * S5-197721 | * CR 32.158 Clarify design pattern for attribute field selection | * Nokia, Nokia Shanghai Bell | * 32.158 | * 0010 | * 2 | * Rel-15 | * F | * REST\_SS | * agreed |
| * S5-197250 | * CR Rel-16 32.160 Resolution of Editors Note in clause W4.3 Class definitions | * L.M. Ericsson Limited | * 32.160 | * 0003 | * - | * Rel-16 | * F | * METHOGY | * revised |
| * S5-197744 | * CR Rel-16 32.160 Resolution of Editors Note in clause W4.3 Class definitions | * L.M. Ericsson Limited | * 32.160 | * 0003 | * 1 | * Rel-16 | * F | * METHOGY | * revised |
| * S5-197772 | * CR Rel-16 32.160 Resolution of Editors Note in clause W4.3 Class definitions | * L.M. Ericsson Limited | * 32.160 | * 0003 | * 2 | * Rel-16 | * F | * METHOGY | * agreed |
| * S5-197253 | * Additions to YANG style Guide | * Ericsson España S.A. | * 32.160 | * 0004 | * - | * Rel-16 | * B | * eNRM | * revised |
| * S5-197719 | * Additions to YANG style Guide | * Ericsson España S.A. | * 32.160 | * 0004 | * 1 | * Rel-16 | * B | * eNRM | * revised |
| * S5-197774 | * Additions to YANG style Guide | * Ericsson España S.A. | * 32.160 | * 0004 | * 2 | * Rel-16 | * B | * eNRM | * agreed |
| * S5-197661 | * Rel-15 CR 32.240 Clarify the Category across specifications | * Huawei | * 32.240 | * 0410 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197662 | * Rel-16 CR 32.240 Clarify the Category across specifications | * Huawei | * 32.240 | * 0411 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197356 | * Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS | * China Mobile Com. Corporation | * 32.251 | * 0514 | * - | * Rel-16 | * B | * VBCLTE | * revised |
| * S5-197483 | * Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS | * China Mobile Com. Corporation | * 32.251 | * 0514 | * 1 | * Rel-16 | * B | * VBCLTE | * agreed |
| * S5-197357 | * Rel-16 CR 32.251 Introduce description of volume based charging for VoLTE in PS | * China Mobile Com. Corporation | * 32.251 | * 0515 | * - | * Rel-16 | * B | * VBCLTE | * withdrawn |
| * S5-197358 | * Rel-16 CR 32.251 Add Caller and Callee information | * China Mobile Com. Corporation | * 32.251 | * 0516 | * - | * Rel-16 | * B | * VBCLTE | * revised |
| * S5-197484 | * Rel-16 CR 32.251 Add Caller and Callee information | * China Mobile Com. Corporation | * 32.251 | * 0516 | * 1 | * Rel-16 | * B | * VBCLTE | * agreed |
| * S5-197372 | * Rel-16 CR 32.255 Adding ETSUN architecture with I-SMF insertion | * Ericsson | * 32.255 | * 0127 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197045 | * Rel-16 CR 32.255 PDU session modification procedure with I-SMF | * Ericsson | * 32.255 | * 0133 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197504 | * Rel-16 CR 32.255 PDU session modification procedure with I-SMF | * Ericsson | * 32.255 | * 0133 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197046 | * Rel-16 CR 32.255 PDU session release procedure with I-SMF involvement | * Ericsson | * 32.255 | * 0134 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197505 | * Rel-16 CR 32.255 PDU session release procedure with I-SMF involvement | * Ericsson | * 32.255 | * 0134 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197047 | * Rel-16 CR 32.255 Charging procedure with I-SMF insertion/change/removal | * Ericsson | * 32.255 | * 0135 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197506 | * Rel-16 CR 32.255 Charging procedure with I-SMF insertion/change/removal | * Ericsson | * 32.255 | * 0135 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197048 | * Rel-16 CR 32.255 Addition of PSA and UL CL or BP controlled by I-SMF | * Ericsson | * 32.255 | * 0136 | * - | * Rel-16 | * B | * ETSUN | * not treated |
| * S5-197049 | * Rel-16 CR 32.255 Removal of PSA and UL CL or BP controlled by I-SMF | * Ericsson | * 32.255 | * 0137 | * - | * Rel-16 | * B | * ETSUN | * not treated |
| * S5-197050 | * Rel-16 CR 32.255 Change of PSA for UL CL or BP controlled by I-SMF | * Ericsson | * 32.255 | * 0138 | * - | * Rel-16 | * B | * ETSUN | * not treated |
| * S5-197051 | * Rel-16 CR 32.255 Correction of handover triggers | * Nokia, Nokia Shanghai Bell | * 32.255 | * 0139 | * - | * Rel-16 | * F | * 5GIEPC\_CH | * revised |
| * S5-197685 | * Rel-16 CR 32.255 Correction of handover triggers | * Nokia, Nokia Shanghai Bell | * 32.255 | * 0139 | * 1 | * Rel-16 | * F | * 5GIEPC\_CH | * agreed |
| * S5-197066 | * Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF | * Ericsson | * 32.255 | * 0140 | * - | * Rel-16 | * B | * ETSUN | * withdrawn |
| * S5-197067 | * Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF | * Ericsson | * 32.255 | * 0141 | * - | * Rel-16 | * B | * ETSUN | * withdrawn |
| * S5-197103 | * Rel-16 CR 32.255 Adding I-SMF triggers related actions in SMF | * Ericsson | * 32.255 | * 0142 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197507 | * Rel-16 CR 32.255 Adding I-SMF triggers related actions in SMF | * Ericsson | * 32.255 | * 0142 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197188 | * Rel-16 CR 32.255 Add I-SMF charging message flow | * Huawei | * 32.255 | * 0143 | * - | * Rel-16 | * B | * ETSUN | * merged |
| * S5-197189 | * Rel-16 CR 32.255 Add CDR trigger condition for change of I-SMF | * Huawei | * 32.255 | * 0144 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197509 | * Rel-16 CR 32.255 Add CDR trigger condition for change of I-SMF | * Huawei | * 32.255 | * 0144 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197190 | * Rel-16 CR 32.255 Add charging ID assigned by SMF with I-SMF | * Huawei | * 32.255 | * 0145 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197510 | * Rel-16 CR 32.255 Add charging ID assigned by SMF with I-SMF | * Huawei | * 32.255 | * 0145 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197192 | * Rel-15 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * 32.255 | * 0146 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197533 | * Rel-15 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * 32.255 | * 0146 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197194 | * Rel-15 CR 32.255 Addition of Furnish Charging Information | * Huawei | * 32.255 | * 0147 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197535 | * Rel-15 CR 32.255 Addition of Furnish Charging Information | * Huawei | * 32.255 | * 0147 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197195 | * Rel-15 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * 32.255 | * 0148 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197655 | * Rel-15 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * 32.255 | * 0148 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197196 | * Rel-15 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * 32.255 | * 0149 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197539 | * Rel-15 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * 32.255 | * 0149 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197199 | * Rel-15 CR 32.255 Clarify the Category in message format | * Huawei | * 32.255 | * 0150 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197205 | * Rel-15 CR 32.255 Add the uniqueness message identifier | * Huawei | * 32.255 | * 0151 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197210 | * Rel-15 CR 32.255 Add the access type | * Huawei | * 32.255 | * 0152 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197215 | * Rel-16 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * 32.255 | * 0153 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197534 | * Rel-16 CR 32.255 Correction of Unit Count Inactivity Timer | * Huawei | * 32.255 | * 0153 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197217 | * Rel-16 CR 32.255 Addition of Furnish Charging Information | * Huawei | * 32.255 | * 0154 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197536 | * Rel-16 CR 32.255 Addition of Furnish Charging Information | * Huawei | * 32.255 | * 0154 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197218 | * Rel-16 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * 32.255 | * 0155 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197656 | * Rel-16 CR 32.255 Clarify on the limit for multiple UPFs | * Huawei | * 32.255 | * 0155 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197219 | * Rel-16 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * 32.255 | * 0156 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197654 | * Rel-16 CR 32.255 Clarify on the SSC mode and triggers for time and volume | * Huawei | * 32.255 | * 0156 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197222 | * Rel-16 CR 32.255 Clarify the Category in message format | * Huawei | * 32.255 | * 0157 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197227 | * Rel-16 CR 32.255 Add the uniqueness message identifier | * Huawei | * 32.255 | * 0158 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197231 | * Rel-16 CR 32.255 Add the access type | * Huawei | * 32.255 | * 0159 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197257 | * Rel-16 CR 32.255 Adding I-SMF controlled UPF triggers & related actions in SMF | * Ericsson | * 32.255 | * 0160 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197508 | * Rel-16 CR 32.255 Adding I-SMF controlled UPF triggers & related actions in SMF | * Ericsson | * 32.255 | * 0160 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197389 | * Rel-15 CR 32.255 Correction of charging rule base name | * Ericsson | * 32.255 | * 0161 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197683 | * Rel-15 CR 32.255 Correction of charging rule base name | * Ericsson | * 32.255 | * 0161 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197390 | * Rel-16 CR 32.255 Correction of charging rule base name | * Ericsson | * 32.255 | * 0162 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197684 | * Rel-16 CR 32.255 Correction of charging rule base name | * Ericsson | * 32.255 | * 0162 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197446 | * Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion | * Ericsson. | * 32.255 | * 0163 | * - | * Rel-16 | * D | * ETSUN | * not treated |
| * S5-197457 | * Introduce CHF-Controlled Quota Management | * Amdocs Software Systems Ltd | * 32.255 | * 0164 | * - | * Rel-16 | * B | * OFSBI\_CH | * not treated |
| * S5-197544 | * Add I-SMF charging message flow for handover | * Huawei | * 32.255 | * 0165 | * - | * Rel-16 | * B | * ETSUN | * not treated |
| * S5-197185 | * Rel-16 CR 32.260 CHF selection for IMS charging | * Huawei | * 32.260 | * 0401 | * - | * Rel-16 | * B | * 5GSIMSCH | * revised |
| * S5-197500 | * Rel-16 CR 32.260 CHF selection for IMS charging | * Huawei | * 32.260 | * 0401 | * 1 | * Rel-16 | * B | * 5GSIMSCH | * agreed |
| * S5-197186 | * Rel-16 CR 32.260 IMS charging general description | * Huawei | * 32.260 | * 0402 | * - | * Rel-16 | * B | * 5GSIMSCH | * revised |
| * S5-197501 | * Rel-16 CR 32.260 IMS charging general description | * Huawei | * 32.260 | * 0402 | * 1 | * Rel-16 | * B | * 5GSIMSCH | * agreed |
| * S5-197187 | * Rel-16 CR 32.260 IMS charging trigger | * Huawei | * 32.260 | * 0403 | * - | * Rel-16 | * B | * 5GSIMSCH | * revised |
| * S5-197502 | * Rel-16 CR 32.260 IMS charging trigger | * Huawei | * 32.260 | * 0403 | * 1 | * Rel-16 | * B | * 5GSIMSCH | * agreed |
| * S5-197203 | * Rel-15 CR 32.274 Clarify the Category in message format | * Huawei | * 32.274 | * 0072 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197206 | * Rel-15 CR 32.274 Add the uniqueness message identifier | * Huawei | * 32.274 | * 0073 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197213 | * Rel-15 CR 32.274 Correction on Applicable Triggers in the SMSF | * Huawei | * 32.274 | * 0074 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197693 | * Rel-15 CR 32.274 Correction on Applicable Triggers in the SMSF | * Huawei | * 32.274 | * 0074 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197214 | * Rel-15 CR 32.274 Correction on SMS Submission - ECUR flow | * Huawei | * 32.274 | * 0075 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197692 | * Rel-15 CR 32.274 Correction on SMS Submission - ECUR flow | * Huawei | * 32.274 | * 0075 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197369 | * Rel-16 CR 32.275 Addition of converged flows for TIP, TIR, HOLD and CB | * Ericsson | * 32.275 | * 0074 | * - | * Rel-16 | * B | * 5GSIMSCH | * not pursued |
| * S5-197503 | * Rel-16 CR 32.281 Addition of convergent flows | * Ericsson | * 32.281 | * 0007 | * 2 | * Rel-16 | * B | * 5GSIMSCH | * agreed |
| * S5-197370 | * Rel-16 CR 32.281 Addition of converged flows | * Ericsson | * 32.281 | * 0008 | * - | * Rel-16 | * B | * 5GSIMSCH | * not pursued |
| * S5-197392 | * Rel-16 CR 32.290 Definition of state machine | * Ericsson | * 32.290 | * 0089 | * 1 | * Rel-16 | * F | * TEI16, 5GS\_Ph1-SBI\_CH | * noted |
| * S5-197393 | * Rel-16 CR 32.290 Correction of redirect at termination | * Ericsson | * 32.290 | * 0090 | * 1 | * Rel-16 | * F | * TEI16, 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197197 | * Rel-15 CR 32.290 Correction on Notify response | * Huawei | * 32.290 | * 0095 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197657 | * Rel-15 CR 32.290 Correction on Notify response | * Huawei | * 32.290 | * 0095 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197200 | * Rel-15 CR 32.290 Clarify the Category in message format | * Huawei | * 32.290 | * 0096 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197207 | * Rel-15 CR 32.290 Add the uniqueness message identifier | * Huawei | * 32.290 | * 0097 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197220 | * Rel-16 CR 32.290 Correction on Notify response | * Huawei | * 32.290 | * 0098 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197658 | * Rel-16 CR 32.290 Correction on Notify response | * Huawei | * 32.290 | * 0098 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197223 | * Rel-16 CR 32.290 Clarify the Category in message format | * Huawei | * 32.290 | * 0099 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197228 | * Rel-16 CR 32.290 Add the uniqueness message identifier | * Huawei | * 32.290 | * 0100 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197235 | * Rel-16 CR 32.290 Add the group id for CHF registration | * Huawei | * 32.290 | * 0101 | * - | * Rel-16 | * F | * 5GS\_Ph1-SBI\_CH, TEI16 | * revised |
| * S5-197687 | * Rel-16 CR 32.290 Add the group id for CHF registration | * Huawei | * 32.290 | * 0101 | * 1 | * Rel-16 | * F | * 5GS\_Ph1-SBI\_CH, TEI16 | * agreed |
| * S5-197376 | * Rel-15 CR 32.290 Correction to NF consumer identification | * Ericsson | * 32.290 | * 0102 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197670 | * Rel-15 CR 32.290 Correction to NF consumer identification | * Ericsson | * 32.290 | * 0102 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197377 | * Rel-16 CR 32.290 Correction to NF consumer identification | * Ericsson | * 32.290 | * 0103 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197671 | * Rel-16 CR 32.290 Correction to NF consumer identification | * Ericsson | * 32.290 | * 0103 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197458 | * Add CHF-Controlled Quota Management functionality | * Amdocs Software Systems Ltd | * 32.290 | * 0104 | * - | * Rel-16 | * B | * OFSBI\_CH | * not treated |
| * S5-197268 | * Rel-15 CR 32.291 Clarify the QoS change trigger | * Huawei | * 32.291 | * 0131 | * 2 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197665 | * Rel-15 CR 32.291 Clarify the QoS change trigger | * Huawei | * 32.291 | * 0131 | * 3 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197269 | * Rel-16 CR 32.291 Clarify the QoS change trigger | * Huawei | * 32.291 | * 0147 | * 2 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197666 | * Rel-16 CR 32.291 Clarify the QoS change trigger | * Huawei | * 32.291 | * 0147 | * 3 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197120 | * Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging | * Nokia, Nokia Shanghai Bell | * 32.291 | * 0153 | * 1 | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * revised |
| * S5-197492 | * Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging | * Nokia, Nokia Shanghai Bell | * 32.291 | * 0153 | * 2 | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * agreed |
| * S5-197119 | * Rel-16 CR 32.291 Introduce OpenAPI for AMF charging | * Nokia, Nokia Shanghai Bell | * 32.291 | * 0164 | * - | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * agreed |
| * S5-197198 | * Rel-15 CR 32.291 Correction on Notify response | * Huawei | * 32.291 | * 0165 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197659 | * Rel-15 CR 32.291 Correction on Notify response | * Huawei | * 32.291 | * 0165 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197201 | * Rel-15 CR 32.291 Clarify the Category in message format | * Huawei | * 32.291 | * 0166 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197204 | * Rel-15 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * 32.291 | * 0167 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197694 | * Rel-15 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * 32.291 | * 0167 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197208 | * Rel-15 CR 32.291 Add the uniqueness message identifier | * Huawei | * 32.291 | * 0168 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197209 | * Rel-15 CR 32.291 Correction on the Resource URI | * Huawei | * 32.291 | * 0169 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197663 | * Rel-15 CR 32.291 Correction on the Resource URI | * Huawei | * 32.291 | * 0169 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197211 | * Rel-15 CR 32.291 Add the access type | * Huawei | * 32.291 | * 0170 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197221 | * Rel-16 CR 32.291 Correction on Notify response | * Huawei | * 32.291 | * 0171 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197660 | * Rel-16 CR 32.291 Correction on Notify response | * Huawei | * 32.291 | * 0171 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197224 | * Rel-16 CR 32.291 Clarify the Category in message format | * Huawei | * 32.291 | * 0172 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197226 | * Rel-16 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * 32.291 | * 0173 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197695 | * Rel-16 CR 32.291 Correction of ChargingDataResponse description | * Huawei | * 32.291 | * 0173 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197229 | * Rel-16 CR 32.291 Add the uniqueness message identifier | * Huawei | * 32.291 | * 0174 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197230 | * Rel-16 CR 32.291 Correction on the Resource URI | * Huawei | * 32.291 | * 0175 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197664 | * Rel-16 CR 32.291 Correction on the Resource URI | * Huawei | * 32.291 | * 0175 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197232 | * Rel-16 CR 32.291 Add the access type | * Huawei | * 32.291 | * 0176 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * not pursued |
| * S5-197258 | * Rel-16 CR 32.291 Adding I-SMF Identifier | * Ericsson | * 32.291 | * 0177 | * - | * Rel-16 | * B | * ETSUN | * not pursued |
| * S5-197259 | * Rel-16 CR 32.291 adding I-SMF controlled UPF information | * Ericsson | * 32.291 | * 0178 | * - | * Rel-16 | * B | * ETSUN | * not pursued |
| * S5-197260 | * Rel-16 CR 32.291 adding I-SMF related trigger type | * Ericsson | * 32.291 | * 0179 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197511 | * Rel-16 CR 32.291 adding I-SMF related trigger type | * Ericsson | * 32.291 | * 0179 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197265 | * Rel-16 CR 32.291 Add data type for I-SMF | * Huawei | * 32.291 | * 0180 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197512 | * Rel-16 CR 32.291 Add data type for I-SMF | * Huawei | * 32.291 | * 0180 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197266 | * Rel-16 CR 32.291 Add trigger types in the schema for I-SMF | * Huawei | * 32.291 | * 0181 | * - | * Rel-16 | * B | * ETSUN | * merged |
| * S5-197281 | * Rel-15 CR 32.291 Add Session-AMBR change trigger | * Huawei | * 32.291 | * 0182 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197667 | * Rel-15 CR 32.291 Add Session-AMBR change trigger | * Huawei | * 32.291 | * 0182 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197282 | * Rel-16 CR 32.291 Add Session-AMBR change trigger | * Huawei | * 32.291 | * 0183 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197668 | * Rel-16 CR 32.291 Add Session-AMBR change trigger | * Huawei | * 32.291 | * 0183 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197350 | * Rel-15 CR 32.291 Correction to tariffTimeChange with UTC format | * Ericsson | * 32.291 | * 0184 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * not treated |
| * S5-197360 | * Rel-16 CR 32.291 Correction to tariffTimeChange with UTC format | * Ericsson | * 32.291 | * 0185 | * - | * Rel-16 | * F | * 5GS\_Ph1-SBI\_CH | * not treated |
| * S5-197365 | * Rel-16 CR 32.291 Addition of binding for exposure function northbound API | * Ericsson | * 32.291 | * 0186 | * - | * Rel-16 | * B | * 5GS\_Ph1\_NEFCH | * revised |
| * S5-197496 | * Rel-16 CR 32.291 Addition of binding for exposure function northbound API | * Ericsson | * 32.291 | * 0186 | * 1 | * Rel-16 | * B | * 5GS\_Ph1\_NEFCH | * agreed |
| * S5-197367 | * Rel-16 CR 32.291 Addition of attributes in yaml for exposure function northbound API | * Ericsson | * 32.291 | * 0187 | * - | * Rel-16 | * B | * 5GS\_Ph1\_NEFCH | * revised |
| * S5-197497 | * Rel-16 CR 32.291 Addition of attributes in yaml for exposure function northbound API | * Ericsson | * 32.291 | * 0187 | * 1 | * Rel-16 | * B | * 5GS\_Ph1\_NEFCH | * agreed |
| * S5-197378 | * Rel-15 CR 32.291 Correction to NF consumer identification | * Ericsson | * 32.291 | * 0188 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197379 | * Rel-16 CR 32.291 Correction to NF consumer identification | * Ericsson | * 32.291 | * 0189 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197385 | * Rel-15 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * 32.291 | * 0190 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197681 | * Rel-15 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * 32.291 | * 0190 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197387 | * Rel-16 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * 32.291 | * 0191 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197682 | * Rel-16 CR 32.291 Correction of binding for 5G data connectivity | * Ericsson | * 32.291 | * 0191 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197408 | * Rel-16 CR 32.291 Correction OpenAPI syntax | * Nokia, Nokia Shanghai Bell | * 32.291 | * 0192 | * - | * Rel-16 | * F | * TEI16 | * agreed |
| * S5-197413 | * Rel-16 CR 32.291 Introduction of Binding for AMF Charging | * Nokia, Nokia Shanghai Bell | * 32.291 | * 0193 | * - | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * revised |
| * S5-197494 | * Rel-16 CR 32.291 Introduction of Binding for AMF Charging | * Nokia, Nokia Shanghai Bell | * 32.291 | * 0193 | * 1 | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * agreed |
| * S5-197439 | * Rel-16 CR 32.291 Add serving node information | * China Mobile Com. Corporation | * 32.291 | * 0194 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197513 | * Rel-16 CR 32.291 Add serving node information | * China Mobile Com. Corporation | * 32.291 | * 0194 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197459 | * Add Quota Management Suspend and Resume Result Codes | * Amdocs Software Systems Ltd | * 32.291 | * 0195 | * - | * Rel-16 | * B | * OFSBI\_CH | * not treated |
| * S5-197460 | * Add Quota Management Suspend and Resume Result Codes in yaml | * Amdocs Software Systems Ltd | * 32.291 | * 0196 | * - | * Rel-16 | * B | * OFSBI\_CH | * not treated |
| * S5-197107 | * Rel-15 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0765 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197529 | * Rel-15 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0765 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197108 | * Rel-16 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0766 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * revised |
| * S5-197530 | * Rel-16 CR 32.298 Correction of references to 5G | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0766 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197109 | * Rel-15 CR 32.298 Correction of abnormal release trigger | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0767 | * - | * Rel-15 | * F | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197110 | * Rel-16 CR 32.298 Correction of abnormal release trigger | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0768 | * - | * Rel-16 | * A | * 5GS\_Ph1-SBI\_CH | * agreed |
| * S5-197118 | * Rel-16 CR 32.298 Introduce AMF CHF CDRs | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0769 | * - | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * revised |
| * S5-197493 | * Rel-16 CR 32.298 Introduce AMF CHF CDRs | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0769 | * 1 | * Rel-16 | * B | * 5GS\_Ph1\_AMFCH | * agreed |
| * S5-197124 | * Rel-15 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * 32.298 | * 0770 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197531 | * Rel-15 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * 32.298 | * 0770 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197135 | * Rel-16 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * 32.298 | * 0771 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197532 | * Rel-16 CR 32.298 Correction of Serving Node change | * China Mobile Com. Corporation | * 32.298 | * 0771 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197193 | * Rel-15 CR 32.298 Addition of Furnish Charging Information | * Huawei | * 32.298 | * 0772 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197537 | * Rel-15 CR 32.298 Addition of Furnish Charging Information | * Huawei | * 32.298 | * 0772 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197202 | * Rel-15 CR 32.298 Clarify the Category in message format | * Huawei | * 32.298 | * 0773 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197212 | * Rel-15 CR 32.298 Add the access type | * Huawei | * 32.298 | * 0774 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197216 | * Rel-16 CR 32.298 Addition of Furnish Charging Information | * Huawei | * 32.298 | * 0775 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197538 | * Rel-16 CR 32.298 Addition of Furnish Charging Information | * Huawei | * 32.298 | * 0775 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197225 | * Rel-16 CR 32.298 Clarify the Category in message format | * Huawei | * 32.298 | * 0776 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197233 | * Rel-16 CR 32.298 Add the access type | * Huawei | * 32.298 | * 0777 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * not pursued |
| * S5-197234 | * Rel-16 CR 32.298 Add the Qos Characteristics | * Huawei | * 32.298 | * 0778 | * - | * Rel-16 | * F | * 5GS\_Ph1-DCH, TEI16 | * revised |
| * S5-197686 | * Rel-16 CR 32.298 Add the Qos Characteristics | * Huawei | * 32.298 | * 0778 | * 1 | * Rel-16 | * F | * 5GS\_Ph1-DCH, TEI16 | * agreed |
| * S5-197239 | * Rel-16 CR 32.298 Correction of handover triggers | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0779 | * - | * Rel-16 | * F | * 5GIEPC\_CH | * not pursued |
| * S5-197261 | * Rel-16 CR 32.298 adding I-SMF related SMFTrigger | * Ericsson | * 32.298 | * 0780 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197514 | * Rel-16 CR 32.298 adding I-SMF related SMFTrigger | * Ericsson | * 32.298 | * 0780 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197267 | * Rel-16 CR 32.298 Add trigger types in abstract syntax definition of CHF-CDR for I-SMF | * Huawei | * 32.298 | * 0781 | * - | * Rel-16 | * B | * ETSUN | * merged |
| * S5-197288 | * Rel-15 CR 32.298 Correction on unused quota timer | * Huawei | * 32.298 | * 0782 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197669 | * Rel-15 CR 32.298 Correction on unused quota timer | * Huawei | * 32.298 | * 0782 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197289 | * Rel-16 CR 32.298 Correction on unused quota timer | * Huawei | * 32.298 | * 0783 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197361 | * Rel-16 CR 32.298 Add Caller and Callee information | * China Mobile Com. Corporation | * 32.298 | * 0784 | * - | * Rel-16 | * B | * VBCLTE | * revised |
| * S5-197485 | * Rel-16 CR 32.298 Add Caller and Callee information | * China Mobile Com. Corporation | * 32.298 | * 0784 | * 1 | * Rel-16 | * B | * VBCLTE | * agreed |
| * S5-197366 | * Rel-16 CR 32.298 adding I-SMF controlled UPF information | * Ericsson | * 32.298 | * 0785 | * - | * Rel-16 | * B | * ETSUN | * not pursued |
| * S5-197368 | * Rel-16 CR 32.298 Addition of CHF CDR for exposure function northbound API | * Ericsson | * 32.298 | * 0786 | * - | * Rel-16 | * B | * 5GS\_Ph1\_NEFCH | * agreed |
| * S5-197380 | * Rel-15 CR 32.298 Correction to NF consumer identification | * Ericsson | * 32.298 | * 0787 | * - | * Rel-15 | * F | * 5GS\_Ph1-DCH | * revised |
| * S5-197672 | * Rel-15 CR 32.298 Correction to NF consumer identification | * Ericsson | * 32.298 | * 0787 | * 1 | * Rel-15 | * F | * 5GS\_Ph1-DCH | * agreed |
| * S5-197381 | * Rel-16 CR 32.298 Correction to NF consumer identification | * Ericsson | * 32.298 | * 0788 | * - | * Rel-16 | * A | * 5GS\_Ph1-DCH | * revised |
| * S5-197673 | * Rel-16 CR 32.298 Correction to NF consumer identification | * Ericsson | * 32.298 | * 0788 | * 1 | * Rel-16 | * A | * 5GS\_Ph1-DCH | * agreed |
| * S5-197436 | * Rel-16 CR 32.298 Add NetworkFunctionality for I-SMF | * China Mobile Com. Corporation | * 32.298 | * 0789 | * - | * Rel-16 | * B | * ETSUN | * revised |
| * S5-197515 | * Rel-16 CR 32.298 Add NetworkFunctionality for I-SMF | * China Mobile Com. Corporation | * 32.298 | * 0789 | * 1 | * Rel-16 | * B | * ETSUN | * agreed |
| * S5-197440 | * Rel-16 CR 32.298 Improvement of ASN.1 chapter CHF CDR | * Nokia, Nokia Shanghai Bell | * 32.298 | * 0790 | * - | * Rel-16 | * D | * 5GS\_Ph1\_AMFCH | * merged |
| * S5-197362 | * Rel-16 CR 32.299 Add Caller and Callee information | * China Mobile Com. Corporation | * 32.299 | * 0823 | * - | * Rel-16 | * B | * VBCLTE | * revised |
| * S5-197486 | * Rel-16 CR 32.299 Add Caller and Callee information | * China Mobile Com. Corporation | * 32.299 | * 0823 | * 1 | * Rel-16 | * B | * VBCLTE | * agreed |
| * S5-197238 | * Rel-16 CR TS 32.421 terminology clean-up | * Nokia Japan | * 32.421 | * 0088 | * - | * Rel-16 | * B | * TM\_SBMA | * revised |
| * S5-197570 | * Rel-16 CR TS 32.421 terminology clean-up | * Nokia Japan | * 32.421 | * 0088 | * 1 | * Rel-16 | * B | * TM\_SBMA | * agreed |
| * S5-197432 | * Correction of definition and reference | * Ericsson India Private Limited | * 32.421 | * 0089 | * - | * Rel-15 | * F | * TEI15 | * not pursued |
| * S5-197443 | * Add New Trace data Requirement | * Ericsson India Private Limited | * 32.421 | * 0090 | * - | * Rel-15 | * F | * TEI15 | * not pursued |
| * S5-197705 | * Update MDT requirement to include support of MDT in 5G | * Ericsson India Private Limited | * 32.421 | * 0091 | * - | * Rel-16 | * B | * DUMMY | * agreed |
| * S5-197706 | * Add MDT business level requirements | * Ericsson India Private Limited | * 32.421 | * 0092 | * - | * Rel-16 | * B | * DUMMY | * agreed |
| * S5-197241 | * Rel-16 CR TS 32.422 new references | * Nokia Japan | * 32.422 | * 0302 | * - | * Rel-16 | * B | * TM\_SBMA | * agreed |
| * S5-197243 | * Rel-16 CR TS 32.422 addition of general management activation mechanisms for 5GS | * Nokia Japan | * 32.422 | * 0303 | * - | * Rel-16 | * B | * TM\_SBMA | * agreed |
| * S5-197245 | * Rel-16 CR TS addition of general signalling activation mechanisms for 5GS | * Nokia Japan | * 32.422 | * 0304 | * - | * Rel-16 | * B | * TM\_SBMA | * agreed |
| * S5-197248 | * Rel-16 CR TS 32.422 Update 5GS deactivation mechanisms | * Nokia Japan | * 32.422 | * 0305 | * - | * Rel-16 | * B | * TM\_SBMA | * agreed |
| * S5-197252 | * Rel-16 CR TS 32.422 update trace recording session start-stop | * Nokia Japan | * 32.422 | * 0306 | * - | * Rel-16 | * B | * TM\_SBMA | * agreed |
| * S5-197254 | * Rel-16 CR TS 32.422 update trace configuration parameters | * Nokia Japan | * 32.422 | * 0307 | * - | * Rel-16 | * B | * TM\_SBMA, OAM\_RTT | * revised |
| * S5-197587 | * Rel-16 CR TS 32.422 update trace configuration parameters | * Nokia Japan | * 32.422 | * 0307 | * 1 | * Rel-16 | * B | * TM\_SBMA, OAM\_RTT | * agreed |
| * S5-197256 | * Rel-16 CR TS 32.422 add streaming trace reporting description | * Nokia Japan | * 32.422 | * 0308 | * - | * Rel-16 | * B | * TM\_SBMA, OAM\_RTT | * revised |
| * S5-197588 | * Rel-16 CR TS 32.422 add streaming trace reporting description | * Nokia Japan | * 32.422 | * 0308 | * 1 | * Rel-16 | * B | * TM\_SBMA, OAM\_RTT | * agreed |
| * S5-197447 | * Removing not used reference and add reference to definition | * Ericsson India Private Limited | * 32.422 | * 0309 | * - | * Rel-15 | * F | * TEI15 | * not pursued |
| * S5-197445 | * Correct XML Schema for consistency and clarity | * Ericsson India Private Limited | * 32.532 | * 0038 | * - | * Rel-16 | * F | * NETSLICE | * not pursued |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| * S5-197136 |  | * Resubmitted LS from RAN3 Reply on radio resource management policy | * R3-194550 | * replied to | * S5-197637 |
| * S5-197137 |  | * Resubmitted LS from RAN2 to SA5 on radio resource management policy | * R2-1911791 | * replied to | * S5-197637 |
| * S5-197138 |  | * Resubmitted Ls from RAN3 Reply on User Data Congestion Analytics | * R3-194749 | * postponed | * (none) |
| * S5-197139 |  | * Resubmitted reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing | * S6-191841 | * noted | * (none) |
| * S5-197140 |  | * Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | * GSMA | * replied to | * S5-197480 |
| * S5-197141 |  | * Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | * ITU-T SG2 | * replied to | * S5-197541 |
| * S5-197142 |  | * Resubmitted LS/r on Energy Efficiency on 5G (3GPP TSG SA5-S5-195667) | * ITU-T SG5 | * noted | * (none) |
| * S5-197143 |  | * Resubmitted LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations | * ETSI TC LI | * replied to | * S5-197481 |
| * S5-197144 |  | * Reply LS to SA5 on PDCP end user throughput measurements | * R2-1914089 | * noted | * (none) |
| * S5-197145 |  | * Reply LS to SA5 on User Data Congestion Analytics | * S2-1910210 | * postponed | * (none) |
| * S5-197146 |  | * LS Reply to SA5 on Introduction of CHF Address from PCF | * S2-1910224 | * replied to | * S5-197495 |
| * S5-197147 |  | * Reply LS ccSA5 on LS on the IAB-indication to core network | * S2-1910281 | * noted | * (none) |
| * S5-197148 |  | * LS to SA5 on whether new 5QI needs for IAB OAM traffic | * S2-1910347 | * replied to | * S5-197814 |
| * S5-197149 |  | * Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2 | * S2-1910807 | * replied to | * S5-197715 |
| * S5-197150 |  | * Reply LS to SA5 on QoE Measurement Collection | * S4-191234 | * replied to | * S5-197543 |
| * S5-197151 |  | * LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * O-RAN | * replied to | * S5-197545 |
| * S5-197237 |  | * LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * O-RAN Alliance | * replied to | * S5-197839 |
| * S5-197479 |  | * LS on Application Architecture for enabling Edge Applications | * S6-192399 | * replied to | * S5-197752 |
| * S5-197785 |  | * Reply LS on clarification of OAM requirements for RIM | * R3-197540 | * postponed | * (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| * S5-197480 | * Reply to: Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | * GSMA | * - | * S5-197140 |
| * S5-197481 | * Reply to: Resubmitted LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations | * ETSI TC LI | * 3GPP SA, 3GPP SA3LI, 3GPP SA2, 3GPP RAN3 | * S5-197143 |
| * S5-197495 | * LS Reply to LS Reply to LS to SA2 Introduction of CHF Address from PCF | * SA2 | * CT3 | * S5-197146 |
| * S5-197541 | * Reply to: Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | * ITU-T SG2 | * - | * S5-197141 |
| * S5-197543 | * Reply to: Reply LS to SA5 on QoE Measurement Collection | * S4-191234 | * - | * S5-197150 |
| * S5-197545 | * LS reply to LS on O-RAN – 3GPP Cooperation on Management Services | * O-RAN WG1, 3GPP SA | * 3GPP RAN, 3GPP SA | * S5-197151 |
| * S5-197637 | * Reply to: Resubmitted LS from RAN3 Reply on radio resource management policy | * RAN3,RAN2 | * - | * S5-197136, S5-197137 |
| * S5-197650 | * LS on update of touchpoints | * ETSI ISG NFV | * - |  |
| * S5-197696 | * LS on Addition of AVP code definition | * CT4 | * CT3 |  |
| * S5-197715 | * Reply to: Reply LS ccSA5 on NG.116 GST publication and cooperation with 3GPP SA WG2 | * SA2 | * SA | * S5-197149 |
| * S5-197752 | * Reply to: LS on Application Architecture for enabling Edge Applications | * SA6 | * SA2 | * S5-197479 |
| * S5-197805 | * LS on network sharing with non-public networks | * SA2 | * SA1, RAN2, RAN3 | * - |
| * S5-197806 | * LS on CAG | * SA2, RAN2 | * RAN3, CT4 | * - |
| * S5-197814 | * Reply to: LS to SA5 on whether new 5QI needs for IAB OAM traffic | * SA2 | * - | * S5-197148 |
| * S5-197831 | * LS to ONAP on 3GPP MnS integration with VES | * ONAP DCAE Project, ETSI ISG ZSM | * - | * - |
| * S5-197839 | * Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | * O-RAN Alliance / WG5 | * SA, RAN | * S5-197237 |
| * S5-197853 | * LS out on GSMA GST | * SA2, RAN3, IETF | * SA, SA1, SA6, RAN2, GSMA 5GJA, ETSI ISG ZSM | * - |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| * S5-197817 | * New WID on 5G management capabilities | * AT&T, Orange,Deutsche Telekom | * WID new |
| * S5-197613 | * Revised WID on energy efficiency of 5G | * Orange | * WID revised |
| * S5-197616 | * Revised WID on network policy management for mobile networks based on NFV scenarios | * China Mobile Com. Corporation | * WID revised |
| * S5-197823 | * WI\_revised\_Management Aspects of 5G Service-Level Agreement | * China Mobile E-Commerce Co. | * WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| * S5-197527 | * 32.845 | * 1.2.0 | * Draft TR 32.845 |
| * S5-197842 | * 28.310 | * 1.2.0 | * Draft TS 28.310 |
| * S5-197843 | * 28.311 | * 0.6.0 | * Draft TS 28.311 |
| * S5-197844 | * 28.812 | * 0.9.0 | * Draft TR 28.812 |
| * S5-197845 | * 28.535 | * 0.2.0 | * Draft TS 28.535 |
| * S5-197846 | * 28.536 | * 0.2.0 | * Draft TS 28.536 |
| * S5-197847 | * 28.313 | * 0.2.0 | * Draft TS 28.313 |
| * S5-197848 | * 28.861 | * 1.1.0 | * Draft TR 28.861 |
| * S5-197849 | * 28.807 | * 0.3.0 | * Draft TR 28.807 |
| * S5-197850 | * 28.808 | * 0.4.0 | * Draft TR 28.808 |
| * S5-197851 | * 28.809 | * 0.2.0 | * Draft TR 28.809 |
| * S5-197852 | * 28.810 | * 0.2.0 | * Draft TR 28.810 |

## Annex F: List of participants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Family Name | Given Name | Employer Organization | Employer Category Code | Organization Represented | Organization Represented Category Code |
| Al-kanani | Hassan | NEC Europe Ltd | ETSI | NEC Telecom MODUS Ltd. | ETSI |
| Andrianov | Anatoly | Nokia Germany | ETSI | Nokia Japan | ARIB |
| Ayani | Zhulia | Ericsson LM | ETSI | Ericsson India Private Limited | TSDSI |
| Braam | Sjors | TNO | ETSI | KPN N.V. | ETSI |
| CHEN | SHAN | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies (Korea) | TTA |
| Chen | Xiumin | China Telecommunications | ETSI | China Telecommunications | ETSI |
| Cheuk | Edwin | Matrixx | ETSI | Matrixx | ETSI |
| Chou | Joey | Intel Corporation (UK) Ltd | ETSI | Intel Corporation (UK) Ltd | ETSI |
| Cornily | Jean Michel | Orange | ETSI | Orange Romania | ETSI |
| Dong | Jia | China Mobile E-Commerce Co. | CCSA | China Mobile (Suzhou) Software | CCSA |
| Drijver | Floris | TNO | ETSI | TNO | ETSI |
| Gao | Fang | China Mobile Com. Corporation | CCSA | China Mobile Group Device Co. | CCSA |
| Gardella | Maryse | Nokia France | ETSI | Nokia France | ETSI |
| Gautam | Deepanshu | Samsung R&D Institute UK | ETSI | Samsung Electronics GmbH | ETSI |
| Glozman | Borislav | Amdocs Software Systems Ltd | ETSI | Amdocs Software Systems Ltd | ETSI |
| Groenendijk | Jan | Ericsson LM | ETSI | L.M. Ericsson Limited | ETSI |
| He | Rui | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | HUAWEI Technologies Japan K.K. | ARIB |
| Jahangir | Zeeshan | T-Mobile USA Inc. | ATIS | T-Mobile USA Inc. | ATIS |
| Jerbi | Walid | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| JIA | Xiaoqian | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Tech.(UK) Co., Ltd | ETSI |
| Jing | Hao | ETSI | ETSI | ETSI | ETSI |
| Lagha | Naceur | Amdocs Software Systems Ltd | ETSI | Amdocs Software Systems Ltd | ETSI |
| Lengyel | Balazs | Ericsson Hungary Ltd | ETSI | Ericsson España S.A. | ETSI |
| Li | Gang | Nanjing Ericsson Panda Com Ltd | CCSA | Ericsson France S.A.S | ETSI |
| Liang | Maria | Ericsson LM | ETSI | Ericsson Japan K.K. | ARIB |
| Liu | Meng | China Telecommunications | ETSI | China Telecom Corporation Ltd. | CCSA |
| McNamee | Alan | Openet Telecom | ETSI | Openet Telecom | ETSI |
| Moggio | Fabrizio | TELECOM ITALIA S.p.A. | ETSI | TELECOM ITALIA S.p.A. | ETSI |
| Niu | Yuxia | China Telecom Corporation Ltd. | CCSA | China Telecom Corporation Ltd. | CCSA |
| Petersen | Robert | Ericsson LM | ETSI | Oy LM Ericsson AB | ETSI |
| Ping | Jing | Nokia Germany | ETSI | Nokia Korea | TTA |
| Potter | Benjamin | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Senarath | Gamini | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Technologies R&D UK | ETSI |
| Shi | Xiaonan | China Mobile Research Inst. | | China Mobile E-Commerce Co. | CCSA |
| Shu | Min | CATT | ETSI | CATT | ETSI |
| Smith | David K. | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Tian | Shuyi | China Telecom Corporation Ltd. | CCSA | China Telecom Corporation Ltd. | CCSA |
| Törnkvist | Robert | Ericsson LM | ETSI | Ericsson-LG Co., LTD | TTA |
| Tovinger | Thomas | Ericsson LM | ETSI | Ericsson LM | ETSI |
| Tse | Edwin | Ericsson LM | ETSI | Ericsson Inc. | ATIS |
| Wang | Lilei | AsiaInfo Technologies Inc | ETSI | AsiaInfo Technologies Inc | ETSI |
| XING | XIAOCHENG | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Technologies Sweden AB | ETSI |
| Xu | Ruiyue | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies Japan K.K. | TTC |
| Yao | Yizhi | Intel Corporation (UK) Ltd | ETSI | Intel Corporation SAS | ETSI |
| Zhang | Jian | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | HuaWei Technologies Co., Ltd | CCSA |
| Zhang | Kai | Huawei Tech.(UK) Co., Ltd | ETSI | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI |
| Zhao | Song | China Telecom Corporation Ltd. | CCSA | China Telecom Corporation Ltd. | CCSA |
| Zhu | Lei | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies France | ETSI |
| Zhu | Weihong | ZTE Corporation | ETSI | ZTE Corporation | CCSA |
| Zou | Lan | Huawei Tech.(UK) Co., Ltd | ETSI | HiSilicon Technologies Co. Ltd | CCSA |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| * SA5#129 | * 2020-02-24 | * 2020-02-28 | * Hyderabad | * IN | * S5-129 |
| * SA5#130 | * 2020-04-20 | * 2020-04-24 | * Sophia Antipolis | * FR | * S5-130 |
| * SA5#131 | * 2020-05-25 | * 2020-05-29 | * Vilnius | * LT | * S5-131 |
| * SA5#132 | * 2020-08-24 | * 2020-08-28 | * US | * US | * S5-132 |
| * SA5#133 | * 2020-10-12 | * 2020-10-16 | * US | * US | * S5-133 |
| * SA5#134 | * 2020-11-16 | * 2020-11-20 | * China | * CN | * S5-134 |