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

**Meeting Report  
for  
TSG SA WG5  
meeting: 127**

**Sophia Antipolis, France, 14/10/2019 to 18/10/2019**

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## 1 Opening of the meeting

Mirko Cano (ETSI) welcomed the delegates to Sophia Antipolis. He presented some slides with the practicalities of the meeting and the area.

## 2 Approval of the agenda

**S5-196000 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.

**S5-196001 IPR and legal declaration**

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

**Decision:** The document was **revised to S5-196541**.

**S5-196541 IPR and legal declaration**

*Type: other For: -  
 Source: WG Chairman*

(Replaces S5-196001)

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

## 4 Meetings and activities reports

### 4.1 Last SA5 meeting report

**S5-196002 Report from last SA5 meeting**

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

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

### 4.2 Last SA meeting report

**S5-196015 SA5 status report at last SA meeting**

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

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

**S5-196016 SA5 results at last SA meeting**

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

**Discussion:**

The Chair pointed out that having more than one Rapporteur in a SID/WID should be deprecated, and that he had had discussions about this during SA ending in the agreement that in very rare cases there could be more than a Rapporteur. This would have to be followed from now on in SA5.

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

### 4.3 Inter-organizational reports

**S5-196538 RP-192295 SA5 work areas with potential RAN impact (SA5 contribution to RAN#85 plenary)**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This presentation was prepared by the SA5 leadership as input to the Joint SA-RAN#85 session on Rel-17 planning, particularly session 8.1 Work areas with both RAN and SA impacts.

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

## 5 Cross-SWG issues

### 5.1 Administrative issues at SA5 level

**S5-196003 Leaders meeting agenda**

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

**Discussion:**

The Chair announced that one of the changes in the structure would be the removal of the OAM SWG.

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

**S5-196004 Leaders meeting minutes**

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

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

**S5-196005 SA5 Working Procedures**

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

**Discussion:**

It introduces many changes. It was intended to be presented for information and to be approved in the following meeting.

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

**S5-196006 SA5 Meeting Facility Requirements**

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

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

**S5-196007 Process for management of draft TSs/TRs**

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

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

**S5-196008 CR Quality Check**

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

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

**S5-196009 Status of email approvals**

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

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

**S5-196499 Proposal for revised SA5 ToR**

*Type: other For: Agreement  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

Anatoly (Nokia) asked at what level the ToR was to be approved. It was replied that this would have to be sent to SA.

**Decision:** The document was **revised to S5-196576**.

**S5-196576 Proposal for revised SA5 ToR**

*Type: discussion For: Endorsement  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196499)

**Discussion:**

More input is welcome for the next meeting.

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

### 5.2 Technical issues at SA5 level

### 5.3 Liaison statements at SA5 level

**S5-196173 Draft LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework**

*Type: LS out For: (not specified)  
 to NGMN, cc 3GPP TSG RAN, TSG SA, TSG SA WG2, TSG SA WG3, TSG SA WG6  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Discussion:**

The Chair pointed out that the coordination with NGMN was more company-based than official. Robert (Ericsson) commented that there was no coordination and that the mapping had not been discussed or agreed in SA5.

Zou Lan (Huawei) agreed with Robert.

Anatoly (Nokia) also supported Ericsson and commented that the language in the LS of NGMN was not 3GPP SA5 language, so this would have be discussed before sending the LS reply.

Intel: don’t refer to the release as we are between releases now.

**Decision:** The document was **revised to S5-196572**.

**S5-196572 LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework**

*Type: LS out For: -  
 to NGMN, cc 3GPP TSG RAN, TSG SA, TSG SA WG2, TSG SA WG3, TSG SA WG6  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196173)

**Discussion:**

Ericsson didn’t agree with the mapping part.

**Decision:** The document was **revised to S5-196765**.

**S5-196765 LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework**

*Type: LS out For: -  
 to NGMN, cc 3GPP TSG RAN, TSG SA, TSG SA WG2, TSG SA WG3, TSG SA WG6  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196572)

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

**S5-196507 LS on 3GPP – ONAP Cooperation & WoW**

*Type: LS out For: Agreement  
 to ONAP  
 Source: Ericsson Telecomunicazioni SpA*

**Decision:** The document was **revised to S5-196792**.

**S5-196792 LS on 3GPP – ONAP Cooperation & WoW**

*Type: LS out For: Agreement  
 to ONAP  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196507)

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

**S5-196508 LS from NGMN to SA5 on 5G End-to-End Architecture Framework**

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

**Decision:** The document was **replied to in S5-196572**.

**S5-196509 LS from CT4 ccSA5 on ExternalDoc version number change enhancement to 21.900**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-193801*

**Discussion:**

Maryse(Nokia) commented that this affected Charging specifications and it had been taken into account already.

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

**S5-196512 LS on O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs**

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

**Discussion:**

Edwin (Ericsson) commented that WG8 had an impact on SA5.The split described there was not clear and it was a depart from SA5's work. Anatoly (Nokia) commented that the model in O-RAN was different and there was no request to align 3GPP NRM and O-RAN. The concern from Ericsson was not relevant since there was no specific demand on aligning anything.

This was taken offline to decide whether a response was needed.

It was decided to note it and answer to the LS that was received late during the meeting (to be treated in the next meeting).

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

**S5-196513 Reply LS to “O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-190947*

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

**S5-196522 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*

**Discussion:**

Samsung: Bullet 2 refers to SA5. Samsung asked if there was any work on network management for Edge Computing in SA5? The Chair replied that there had been a study and it was completed without a conclusion for future normative work.

Nokia suggested to reply clarifying that there had been a study already.

Intel added that stating that there would be no normative work was a negative statement. Any work could be added with CRs under the current NRM work item. MCC clarified that the NRM WID would have to be revised in order to change its scope to add the MEC work. ORANGE also commented that a new WID could also cover the work with CRs.

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

**S5-196574 Reply to: Reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing**

*Type: LS out For: approval  
 to SA6  
 Source: Samsung*

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

**S5-196811 LS to SA on GSMA GST/NEST translation**

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

**Decision:** The document was **revised to S5-196891**.

**S5-196891 LS to SA on GSMA GST/NEST translation**

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

(Replaces S5-196811)

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

### 5.4 SA5 meeting calendar

**S5-196010 SA5 Meeting Calendar**

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

**Discussion:**

It introduces the dates for 2021. The Chair asked for hosts for that year if the dates were agreed. He added that Taipei was a potential candidate, China and also Japan were other possibilities.

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

### 5.5 Review of the Work Plan

**S5-196011 3GPP SA5 Work Plan**

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

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-196012 Time Plan for OAM&P**

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

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

**S5-196013 OAM Executive Report**

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

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

**S5-196014 OAM&P action list**

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

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

**S5-196017 Minutes of OAM&P opening session**

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

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

**S5-196168 SA5 Summary of OAM WIs/SIs and Work Plan**

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

**Discussion:**

The Chair asked the group to endorse slide 3 and the last slide in order to align with the SA time plan and influence other groups like SA2.

Robert (Ericsson) found this useful and agreed with it. He asked for clickable references for the SP documents.

ORANGE: Enhanced IMS for 5GC integration, which is under CT responsibility, could be related to SA5 work. Zou Lan replied that the list wasn't exhaustive and it needed to be completed.

**Decision:** The document was **revised to S5-196579**.

**S5-196579 SA5 Summary of OAM WIs/SIs and Work Plan**

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

(Replaces S5-196168)

**Discussion:**

The SA5 OAM time plan has a summary on slide 18 for the way forward. There were no objections to this.

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

**S5-196172 Overview of the 5G specification structure**

*Type: discussion For: (not specified)  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Discussion:**

Samsung supported this document and found it very useful to have.

Robert (Ericsson): what do we include in 5G? Connections in E-UTRAN should be added as well? There are also missing documents (e.g. Trace) but it’s a good start.

Edwin (Ericsson) had issues with having the three stages together. The positioning of some boxes could be tricky (positioning of new MnS where to?).

Zou Lan asked everybody to contribute in order to bring an updated version for the next meeting.

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

**S5-196829 Extend the usecase to allow for PCI optimization in multi-layer scenarios**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196448 Discussion on SA5 OA&M SWG OpenAPI files, JSON specifications and ZIP files**

*Type: discussion For: Discussion  
 Source: Orange*

**Discussion:**

MCC commented that the storage of files should be together with the rest of other groups documents.

Nokia queried about the use of ETSI FORGE, which it seemed a tool "hidden" for the outside World. MCC commented that ETSI FORGE was a working tool like the other 3GPP tools used in 3GPP. All results and files were public in any case and FORGE would be used for issues like compilation. It had to be taken offline a clarification of the use of ETSI FORGE since it also seemed that nobody in SA5 OAM had administrative rights to access the tool and someone in CT had to be contacted for that.

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

**S5-196510 LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis**

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

**Discussion:**

Nokia: This shows that our specs are not user friendly. The gaps referred here are not gaps but the structure of the SA5 specifications.A reply was agreed in 580.

**Decision:** The document was **replied to in S5-196580**.

**S5-196580 Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis**

*Type: LS out For: approval  
 to GSMA  
 Source: Nokia*

**Decision:** The document was **revised to S5-196821**.

**S5-196821 Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis**

*Type: LS out For: approval  
 to GSMA, cc SA  
 Source: Nokia*

(Replaces S5-196580)

**Decision:** The document was **revised to S5-196879**.

**S5-196879 Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis**

*Type: LS out For: approval  
 to GSMA, cc SA  
 Source: Nokia*

(Replaces S5-196821)

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

**S5-196511 LS from ETSI NFV to SA5 on ETSI completes work on YANG models for Virtualised Network Function and Network Services Descriptor specification**

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

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

**S5-196519 LS from RAN3 Reply on Data activity reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-194572*

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

**S5-196521 LS from RAN3 ccSA5 on the IAB-indication to core network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-194787*

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

**S5-196523 Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management**

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

**Discussion:**

Huawei: they are asking for general information on slicing, so we can reply in this meeting.

**Decision:** The document was **replied to in S5-196581**.

**S5-196581 Reply to: Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management**

*Type: LS out For: approval  
 to ETSI ISG ZSM  
 Source: Huawei*

**Discussion:**

Nokia: add MDAS and SON work items.

Intel: don’t mention Release 16 here.

**Decision:** The document was **revised to S5-196819**.

**S5-196819 Reply to: Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management**

*Type: LS out For: approval  
 to ETSI ISG ZSM  
 Source: Huawei*

(Replaces S5-196581)

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

**S5-196527 Resubmitted Reply LS from RAN2 to SA5 on the user plane latency measurement**

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

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

**S5-196529 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:**

The Chair commented that ITU-T had asked him to send a reply before December.

A draft reply would be done for the next meeting.

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

**S5-196573 Notes of OAM sessions from the vice Chair**

*Type: other For: Information  
 Source: Huawei*

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

**S5-196705 Request email approval of Stage 3 YANG solution set**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S5-196830 Chair notes on OAM sessions**

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

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

**S5-196888 Remove Network Slicing SS**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0196 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-196889 Updates to YANG SS**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0197 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-196890 Updates to YANG SS**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0035 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

### 6.2 New OAM&P Work Item proposals

**S5-196018 Minutes of New Work Item proposals - OAM&P**

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

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

**S5-196272 New WID network policy management for 5G mobile networks based on NFV scenarios**

*Type: WID new For: Approval  
 Source: China Mobile Com. Corporation*

**Discussion:**

CMCC clarified that this was intended for approval in December 2020.

Nokia had problems with the objectives and the alignment with ETSI MANO. This would imply changing all work done in release 15 and 16.

Edwin (Ericsson): virtualised resources in ETSI MANO are too narrow, as policies affect both virtualised and non-virtualised resources.

ORANGE: remove NFV scenarios from the spec and WID title, these are not necessary. This also assumes that normative work in 5G policy management is concluded, which is not true.

The Chair commented that in his view the current workload was very high and new WIDs should not be brought in until current working items are finished first.

Intel: this implies that service-based policy management in Release 16 would not be supported. Nokia: are there any policies in 5G management in Release 16? This would have to be analised.

**Decision:** The document was **revised to S5-196582**.

**S5-196582 New WID network policy management for 5G mobile networks based on NFV scenarios**

*Type: WID new For: Agreement  
 Source: China Mobile Com. Corporation*

(Replaces S5-196272)

**Decision:** The document was **revised to S5-196854**.

**S5-196854 New WID network policy management for 5G mobile networks based on NFV scenarios**

*Type: WID new For: Agreement  
 Source: China Mobile Com. Corporation*

(Replaces S5-196582)

**Decision:** The document was **revised to S5-196880**.

**S5-196880 New WID network policy management for 5G mobile networks based on NFV scenarios**

*Type: WID new For: Agreement  
 Source: China Mobile Com. Corporation*

(Replaces S5-196854)

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

**S5-196297 New WID on network slice management enhancements**

*Type: WID new For: Agreement  
 Source: Huawei*

**Discussion:**

Huawei clarified that this was bringing work from other SDOs in order to identify gaps with them. Nokia replied that SA2's activity was a feasibility study and this was a normative work item based on a study from another group. Nokia would prefer to see a study instead. On the GSMA activity, they have some work already and there is some activity ongoing in the form of LS, so no need for a WID for this. They also commented that informative work to keep track of what was done in SA2 and SDOs was alright for them, but a normative WID would be overkill for SA5. Ericsson agreed and noted that the objectives were written as "potential" which was study language anyway. Intel supported Nokia and Ericsson as well.

Nokia wanted to point out that the relationship with SA2's study had to be clearly shown.

**Decision:** The document was **revised to S5-196583**.

**S5-196583 New SID on network slice management enhancements**

*Type: SID new For: Agreement  
 Source: Huawei*

(Replaces S5-196297)

**Decision:** The document was **revised to S5-196881**.

**S5-196881 New SID on network slice management enhancements**

*Type: SID new For: Agreement  
 Source: Huawei*

(Replaces S5-196583)

**Discussion:**

It was agreed that the work would start once the release 16 work items were finished.

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

**S5-196500 New WID on management of MDT in 5G**

*Type: WID new For: Agreement  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

Huawei: if this is for release 16, we should adjust the scope for this release and then leave some work for release 17.

**Decision:** The document was **revised to S5-196584**.

**S5-196584 New WID on management of MDT in 5G**

*Type: WID new For: Agreement  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196500)

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

**S5-196575 Discussion on supporting end-to-end slicing management**

*Type: discussion For: Endorsement  
 Source: AsiaInfo, CMCC*

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

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

**S5-196019 Minutes of OAM&P Maintenance and Rel-16 small Enhancements**

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

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

**S5-196151 Rel-15 CR TS 28.552 Correction of Registered subscribers measurement for AMF**

*Type: CR For: Approval  
 28.552 v15.4.0 CR-0134 Cat: F (Rel-15)  
  
 Source: China Mobile Com. Corporation*

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

**S5-196152 Rel-16 CR TS 28.552 Correction of Registered subscribers measurement for AMF**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0135 Cat: A (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-196153 Add missing (E-UTRAN) cell and freq relation**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0091 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.,Huawei*

(Replaces S5-193420)

**Discussion:**

It was clarified that it was not a removal of 4.1 but a replacement of the table. Revised to adress other comments from Intel and MCC.

**Decision:** The document was **revised to S5-196587**.

**S5-196587 Add missing (E-UTRAN) cell and freq relation**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0091 rev 3 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.,Huawei*

(Replaces S5-196153)

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

**S5-196154 Correct Import table**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0155 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-195543)

**Discussion:**

Huawei: UPFFunction and ExternalUPFFunction are not correct. Nokia asked to remove three lines

Ericsson commented that this was contradicting agreements from previous meetings and that going back and forth should be avoided. It was agreed to include in the minutes: the imported information table will not include IOC that is in the same specification.

**Decision:** The document was **revised to S5-196602**.

**S5-196602 Correct Import table**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0155 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-196154)

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

**S5-196155 Correct NR TAC attribute property**

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

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

**S5-196156 Add missing stage 3 CORBA/IDL solution**

*Type: CR For: Approval  
 28.659 v15.3.0 CR-0035 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

**Discussion:**

Huawei asked about the replacement of the whole clause A.2.2. Nokia agreed that it was misleading since it seemed that it was removing all the clauses. Ericsson replied that it was just a change of format. This was not accepted since the CR showed a total removal and a replacement, technical changes were not visible.

**Decision:** The document was **revised to S5-196588**.

**S5-196588 Add missing stage 3 CORBA/IDL solution**

*Type: CR For: Approval  
 28.659 v15.3.0 CR-0035 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

(Replaces S5-196156)

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

**S5-196157 Correct conditional mandatory qualifications for SectorEquipmentFunction**

*Type: CR For: Approval  
 28.622 v15.3.1 CR-0047 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Inc.*

(Replaces S5-195545)

**Discussion:**

Huawei saw a misalignment between the change and the reason for change stated in the cover. 4.3.1.3 didn’t seem to be a misimplementation, it was a new change for them.

Ericsson clarified that the changes were missing in CR implementation, so these were agreed changes.

It was taken offline to verify that the changes were misimplementation. Nokia verified that the comment on the CR cover was not correct, so they couldn’t find the referred CR.

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

**S5-196158 Correct use of ProxyCellList**

*Type: CR For: Approval  
 28.622 v15.3.1 CR-0049 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

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

**S5-196159 Correct use of ProxyCellList**

*Type: CR For: Approval  
 28.662 v15.2.0 CR-0010 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

**Discussion:**

Intel: ProxyCell is not for 5G?why?

Ericsson replied that this was coming from an old specification.

Nokia: changes in the first line of attribute constrainst is addressed in 157 and not in here. Why is the change split in this way? Ericsson replied that the difference was a misimplementation in one CR and new content in the other. It was pointed out that there was a clash with the other CR, since it was fixing a text that was removed in another CR.

**Decision:** The document was **revised to S5-196596**.

**S5-196596 Correct use of ProxyCellList**

*Type: CR For: Approval  
 28.662 v15.2.0 CR-0010 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

(Replaces S5-196159)

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

**S5-196160 Correct Import table**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0156 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson Inc.*

(Replaces S5-195544)

**Decision:** The document was **revised to S5-196603**.

**S5-196603 Correct Import table**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0156 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson Inc.*

(Replaces S5-196160)

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

**S5-196162 Rel-15 CR TS 28.552 Add Registered subscribers related measurements for AMF**

*Type: CR For: Approval  
 28.552 v15.4.0 CR-0136 Cat: B (Rel-15)  
  
 Source: China Mobile Com. Corporation*

**Discussion:**

Ericsson: there is no use case for this document.

Nokia: registered subscribers should not be measured in AMF. This is also an issue for the case when we have several AMFs.

MCC commented that it was not possible to add features/cat-B in release 15 anymore. The following document would be the correct way to add the measurements in release 16.

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

**S5-196163 Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0137 Cat: A (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-196585**.

**S5-196164 Rel-15 CR TS 28.552 Add Unregistered subscribers measurements for UDM**

*Type: CR For: Approval  
 28.552 v15.4.0 CR-0138 Cat: B (Rel-15)  
  
 Source: China Mobile Com. Corporation*

**Discussion:**

Same as above, not valid for Release 15.

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

**S5-196165 Rel-16 CR TS 28.552 Add Unregistered subscribers measurements for UDM**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0139 Cat: A (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Discussion:**

Intel suggested to restructure the clauses.

Nokia: what is the value for the operator for having both min and max numbers of unregistered subscribers?

MCC also commented that the WID code should be for Release 16. Nokia added that these should be intended for another agenda item.

**Decision:** The document was **revised to S5-196586**.

**S5-196188 Rel-15 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements**

*Type: CR For: Approval  
 28.531 v15.4.0 CR-0031 Cat: F (Rel-15)  
  
 Source: Nokia*

**Discussion:**

Nokia clarified that the feasibility check was different from instantation. The use case is an instantiation instead of feasibility.

Samsung: feasibility check is for now, not for the future as it appears here.

Comments from Huawei and Ericsson had to be taken offline.

**Decision:** The document was **revised to S5-196787**.

**S5-196787 Rel-15 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements**

*Type: CR For: Approval  
 28.531 v15.4.0 CR-0031 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia*

(Replaces S5-196188)

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

**S5-196189 Rel-16 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements**

*Type: CR For: Approval  
 28.531 v16.3.0 CR-0032 Cat: A (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-196788**.

**S5-196788 Rel-16 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements**

*Type: CR For: Approval  
 28.531 v16.3.0 CR-0032 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia*

(Replaces S5-196189)

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

**S5-196218 Rel-16 CR TS 28.530 Clean up for incosistence**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0010 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196781**.

**S5-196781 Rel-16 CR TS 28.530 Clean up for incosistence**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0010 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196218)

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

**S5-196219 Rel-16 CR TS 28.531 Clean up for incosistence**

*Type: CR For: Agreement  
 28.531 v16.3.0 CR-0033 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Ericsson didn’t understand the change. Huawei replied that this was coming from another TS. Ericsson commented that there were other general descriptions in this TS and it wasn’t OK to have just another one. Nokia also had some issues and this had to be taken offline.

**Decision:** The document was **revised to S5-196782**.

**S5-196782 Rel-16 CR TS 28.531 Clean up for incosistence**

*Type: CR For: Agreement  
 28.531 v16.3.0 CR-0033 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196219)

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

**S5-196220 Rel-15 CR TS 28.541 Correct the parameter sNSSAIList**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0162 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Nokia didn't understand the removal of NSSAI list and they objected to the changes, combining two lists into one.

Ericsson and Deutsche Telekom didn't support this either.

This had to be taken offline.

**Decision:** The document was **revised to S5-196597**.

**S5-196597 Rel-15 CR TS 28.541 Correct the parameter sNSSAIList**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0162 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196220)

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

**S5-196221 Rel-16 CR TS 28.541 Correct the parameter sNSSAIList**

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

**Discussion:**

Kept it open depending on the discussions on the previous CR.

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

**S5-196224 Rel-15 CR TS 28.659 Update XML solution set to support EUTRAN frequency relation**

*Type: CR For: Agreement  
 28.659 v15.3.0 CR-0036 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Nokia: 153 changes stage 2. Is this aligning with that? What is the relation with 156? Huawei replied that 156 + 224 are two parts of stage 3.

Kept open until stage 2 (tdco 587) was agreed.

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

**S5-196225 Rel-16 CR TS 28.659 Update XML solution set to support EUTRAN frequency relation**

*Type: CR For: Agreement  
 28.659 v16.1.0 CR-0037 Cat: A (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Kept open until stage 2 was agreed.

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

**S5-196226 Rel-15 CR TS 28.623 Correct XML Solution Set for generic NRM**

*Type: CR For: Agreement  
 28.623 v15.3.0 CR-0030 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Intel: this CR depends on other contributions. If those are agreed this CR would need to be changed.

It was commented that stage 2 CRs without a stage 3 could not be agreed due to their dependency. MCC clarified that the stage 2 CRs without a stage 3 equivalent could be just postponed for the next meeting when the stage 3 CRs were available. The "conditionally agreed" status could also be used for the stage 2 CRs as well.

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

**S5-196227 Rel-15 CR TS 28.532 Correct provisioning management service**

*Type: CR For: Agreement  
 28.532 v15.3.0 CR-0058 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Overlapping with 316.

Concerns of Nokia about the table

**Decision:** The document was **revised to S5-196758**.

**S5-196758 Rel-15 CR TS 28.532 Correct provisioning management service**

*Type: CR For: Agreement  
 28.532 v15.3.0 CR-0058 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei,Orange*

(Replaces S5-196227)

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

**S5-196228 Rel-16 CR TS 28.532 Correct provisioning management service**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0059 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196759**.

**S5-196759 Rel-16 CR TS 28.532 Correct provisioning management service**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0059 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei,Orange*

(Replaces S5-196228)

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

**S5-196229 Rel-15 CR TS 28.532 Correct fault supervision management service**

*Type: CR For: Agreement  
 28.532 v15.3.0 CR-0060 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Orange: nothing on the stage 3 changes in the cover page.

Ericsson and Nokia suggested some other editorial changes.

**Decision:** The document was **revised to S5-196760**.

**S5-196760 Rel-15 CR TS 28.532 Correct fault supervision management service**

*Type: CR For: Agreement  
 28.532 v15.3.0 CR-0060 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196229)

**Decision:** The document was **revised to S5-196823**.

**S5-196823 Rel-15 CR TS 28.532 Correct fault supervision management service**

*Type: CR For: Agreement  
 28.532 v15.3.0 CR-0060 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196760)

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

**S5-196230 Rel-16 CR TS 28.532 Correct fault supervision management service**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0061 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196761**.

**S5-196761 Rel-16 CR TS 28.532 Correct fault supervision management service**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0061 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196230)

**Decision:** The document was **revised to S5-196824**.

**S5-196824 Rel-16 CR TS 28.532 Correct fault supervision management service**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0061 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196761)

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

**S5-196231 Rel-15 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0038 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Nokia: the note contradicts the existing annexes. Don’t change the figure title. This was taken offline.

**Decision:** The document was **revised to S5-196762**.

**S5-196762 Rel-15 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0038 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196231)

**Decision:** The document was **revised to S5-196825**.

**S5-196825 Rel-15 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0038 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196762)

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

**S5-196232 Rel-16 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0039 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196763**.

**S5-196763 Rel-16 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0039 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196232)

**Decision:** The document was **revised to S5-196826**.

**S5-196826 Rel-16 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0039 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196763)

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

**S5-196233 Rel-15 CR TS 28.533 Add deployment scenario**

*Type: CR For: Agreement  
 28.533 v15.2.0 CR-0040 Cat: F (Rel-15)  
  
 Source: Huawei*

**Discussion:**

Nokia: we don’t need normative deployment scenarios in this specification. This was rejected to be part of an informative annex before.

Ericsson supported to have examples in the annex, but not like in this document.

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

**S5-196234 Rel-16 CR TS 28.533 Add deployment scenario**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0041 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196239 Rel-16 CR TS 28.532 Add Netconf-based solution set of provisioning MnS**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0063 Cat: B (Rel-16)  
  
 Source: Huawei*

**Discussion:**

Orange: not relevant to ONAP only, move it to 6.3.

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

**S5-196241 Correct NR TAC attribute property**

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

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

**S5-196242 To sync up with Rel-15 stage 2 (on NR NRM)**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0169 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-196243 To syn up with v1540 stage 2**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0146 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson Inc.*

(Replaces S5-195412)

**Discussion:**

Ericsson clarified that the corrections for Release 15 had been approved in the previous meeting already and that this correction was missing.

Huawei: clause 4.4.1 is not aligned with release 15. There was no change like this in there.

Intel: there seems to be some overlap with 153. Ericsson: it's a dependency, not an overlap. Intel added that this dependency should have been stated in the cover. This was agreed.

**Decision:** The document was **revised to S5-196591**.

**S5-196591 To syn up with v1540 stage 2**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0146 rev 3 Cat: F (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces S5-196243)

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

**S5-196263 Rel-16 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0170 Cat: A (Rel-16)  
  
 Source: CATT*

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

**S5-196264 Rel-15 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0171 Cat: F (Rel-15)  
  
 Source: CATT*

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

**S5-196265 Rel-16 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0172 Cat: A (Rel-16)  
  
 Source: CATT*

**Discussion:**

CATT clarified that this was a mirror although the title of the CR is different from the

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

**S5-196266 Rel-15 CR TS 28.541 Correction of the wrong IOC names in transport view of NWDAF and NSSF NRM**

*Type: CR For: Approval  
 28.541 v15.4.0 CR-0173 Cat: F (Rel-15)  
  
 Source: CATT*

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

**S5-196296 Rel-16 CR TS 28.541 XML Solution Set for 5GC**

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

**Discussion:**

Intel pointed out that there was a procedure for stage2/3 in both release 15 and release 16 and this may not be followed here.

The vice Chair asked the group if there was a baseline for release 15 (stage 2 and stage 3 in sync?). The answer was no. Then Zou Lan asked if this was possible for December, but no clear answer was given.

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

**S5-196299 Rel-11 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v11.8.0 CR-0082 Cat: F (Rel-11)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196805**.

**S5-196805 Rel-11 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v11.8.0 CR-0082 rev 1 Cat: F (Rel-11)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196299)

**Decision:** The document was **revised to S5-196882**.

**S5-196882 Rel-11 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v11.8.0 CR-0082 rev 2 Cat: F (Rel-11)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196805)

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

**S5-196300 Rel-12 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v12.2.0 CR-0083 Cat: F (Rel-12)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196806**.

**S5-196806 Rel-12 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v12.2.0 CR-0083 rev 1 Cat: A (Rel-12)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196300)

**Decision:** The document was **revised to S5-196883**.

**S5-196883 Rel-12 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v12.2.0 CR-0083 rev 2 Cat: A (Rel-12)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196806)

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

**S5-196301 Rel-13 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v13.1.0 CR-0084 Cat: A (Rel-13)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196807**.

**S5-196807 Rel-13 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v13.1.0 CR-0084 rev 1 Cat: A (Rel-13)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196301)

**Decision:** The document was **revised to S5-196884**.

**S5-196884 Rel-13 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v13.1.0 CR-0084 rev 2 Cat: A (Rel-13)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196807)

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

**S5-196302 Rel-14 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v14.1.0 CR-0085 Cat: A (Rel-14)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196808**.

**S5-196808 Rel-14 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v14.1.0 CR-0085 rev 1 Cat: A (Rel-14)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196302)

**Decision:** The document was **revised to S5-196885**.

**S5-196885 Rel-14 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v14.1.0 CR-0085 rev 2 Cat: A (Rel-14)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196808)

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

**S5-196303 Rel-15 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v15.2.0 CR-0086 Cat: A (Rel-15)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196809**.

**S5-196809 Rel-15 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v15.2.0 CR-0086 rev 1 Cat: A (Rel-15)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196303)

**Decision:** The document was **revised to S5-196886**.

**S5-196886 Rel-15 CR TS 32.421 Remove the editor's notes**

*Type: CR For: Agreement  
 32.421 v15.2.0 CR-0086 rev 2 Cat: A (Rel-15)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196809)

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

**S5-196304 Add support of Configurable FM**

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

**Discussion:**

Huawei: Why alarm information as IoC?

Orange: Alarm notification target should be addressed more globally, all kinds of notifications.

Nokia: a logical description of the notifications is needed here.

The contribution was not clear to Huawei and Nokia so it had to be taken offline.Tdoc 425 was related to this one as had to be discussed together.

**Decision:** The document was **revised to S5-196598**.

**S5-196598 Add support of Configurable FM**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0050 rev 1 Cat: C (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-196304)

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

**S5-196305 Add missing (E-UTRAN) cell and freq relation**

*Type: CR For: Approval  
 28.658 v16.1.0 CR-0050 Cat: A (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

Same comments w.r.t the changes (removal instead of change of format).

**Decision:** The document was **revised to S5-196589**.

**S5-196589 Add missing (E-UTRAN) cell and freq relation**

*Type: CR For: Approval  
 28.658 v16.1.0 CR-0050 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces S5-196305)

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

**S5-196308 Add missing stage 3 CORBA/IDL solution**

*Type: CR For: Approval  
 28.659 v16.1.0 CR-0038 Cat: A (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

Same comments w.r.t the changes (removal instead of change of format). MCC added that new clauses should have the form A.3.X.

**Decision:** The document was **revised to S5-196590**.

**S5-196590 Add missing stage 3 CORBA/IDL solution**

*Type: CR For: Approval  
 28.659 v16.1.0 CR-0038 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-196308)

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

**S5-196314 Rel-15 CR TS 28.622 update the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.622 v15.3.1 CR-0051 Cat: F (Rel-15)  
  
 Source: ZTE Corporation, Ericsson*

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

**S5-196592 Rel-15 CR TS 28.622 update the definition of attribute measurementsList**

*Type: CR For: Agreement  
 28.622 v15.3.1 CR-0051 rev 1 Cat: F (Rel-15)  
  
 Source: ZTE Corporation, Ericsson*

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

**S5-196315 Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs**

*Type: CR For: Agreement  
 28.622 v16.1.1 CR-0052 Cat: F (Rel-16)  
  
 Source: ZTE Corporation, Ericsson*

**Discussion:**

Huawei: dependency with stage 3?

Intel: relation between measurement type and gPS.

Nokia:we need to think how in stage 3 we are to manipulate huge list of arrays.

This was taken offline.

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

**S5-196593 Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs**

*Type: CR For: Agreement  
 28.622 v16.1.1 CR-0052 rev 1 Cat: A (Rel-16)  
  
 Source: ZTE Corporation, Ericsson*

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

**S5-196316 Rel-15 CR 28.532 Corrections to provisioning MnS notification definitions (Stage 2)**

*Type: CR For: Approval  
 28.532 v15.3.0 CR-0066 Cat: F (Rel-15)  
  
 Source: Orange*

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

**S5-196317 Rel-16 CR 28.532 Corrections to provisioning MnS notification definitions (Stage 2)**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0067 Cat: A (Rel-16)  
  
 Source: Orange*

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

**S5-196331 Rel-15 CR 28.550 Add stream information management related operations**

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

**Discussion:**

Intel: you can change the configuration on the fly.

Nokia had some concerns on the streams and it had to be taken offline.

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

**S5-196332 Rel-16 CR 28.550 Add stream information management related operations**

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

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

**S5-196367 Add missing definition for matching-criteria-attributes**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0068 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

Ericsson clarified that the definition was used in the specification three times.

Nokia didn’t agree with this, as they found the use of identifier here very misleading.

It was agreed to just refer to the spec in [x].

Intel considered that this should also be addressed in release 15. This was taken offline.

**Decision:** The document was **revised to S5-196599**.

**S5-196599 Add missing definition for matching-criteria-attributes**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0068 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-196367)

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

**S5-196433 CR 32.158 Clarify design pattern for scoping and filtering**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0004 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC commented that it should be cat-B, otherwise the question would be why release 15 was not being corrected.

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

**S5-196434 CR 32.158 Clarify design pattern for attribute field selection**

*Type: CR For: Approval  
 32.101 v15.0.0 CR-0069 Cat: F (Rel-16)  
  
 Source: Nokia; Nokia Shanghai Bell*

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

**S5-196435 CR 32.158 Correct basic design patterns**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0005 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196436 CR 32.158 Add design pattern for patching multiple resources**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0006 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

It was commented that the CRshould be in fact for Release 15. It was agreed to change it to Release 15 in the cover before next SA.

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

**S5-196437 CR 32.158 Correct resource representation formats**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0007 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

It was commented that the CRshould be in fact for Release 15. It was agreed to change it to Release 15 in the cover before next SA.

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

**S5-196438 CR 32.158 Add examples**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0008 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

It was commented that the CRshould be in fact for Release 15. It was agreed to change it to Release 15 in the cover before next SA.

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

**S5-196439 CR 28.532 Make scoping and filtering optional in the ProvMnS**

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

**Discussion:**

Ericsson: this increases complexity in stage 3.

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

**S5-196440 CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning**

*Type: CR For: Approval  
 32.158 v15.2.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196446 CR 32.158 Clarify design pattern for attribute field selection**

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

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

**S5-196449 Add YANG/Netconf-based solution set for Generic provisioning MnS**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0070 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

Intel: there is no agreed way forwad for netconf.

Nokia: there is no agrrement in the stage 1 of what is proposed here.

**Decision:** The document was **revised to S5-196791**.

**S5-196791 Add YANG/Netconf-based solution set for Generic provisioning MnS**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0070 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM,Huawei*

(Replaces S5-196449)

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

**S5-196451 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 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196452 Correct faulty implementation of figure 4.4.3.1**

*Type: CR For: Approval  
 28.805 v16.0.0 CR-0005 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-196453 Implement Edithelp comments**

*Type: CR For: Approval  
 28.805 v16.0.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-196468 Fix merging errors of the specification**

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

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

**S5-196469 Solutions for Editor's notes**

*Type: CR For: Approval  
 28.805 v16.0.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-196470 Add passedById and other updates**

*Type: CR For: Approval  
 32.156 v16.2.0 CR-0035 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-196471 Implement Edithelp comments**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-196472 CR Rel-16 TR 28.806 Implementation of fixes for issues identified by EditHelp**

*Type: CR For: Approval  
 28.806 v16.0.1 CR-0001 Cat: D (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-196786**.

**S5-196786 CR Rel-16 TR 28.806 Implementation of fixes for issues identified by EditHelp**

*Type: CR For: Approval  
 28.806 v16.0.1 CR-0001 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia*

(Replaces S5-196472)

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

**S5-196473 Solutions for Editor's note**

*Type: CR For: Approval  
 32.160 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Ericsson India Private Limited*

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

**S5-196482 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 10 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom*

(Replaces S5-195914)

**Discussion:**

Pivotal commented that in the previous version all changes were agreed and only stage 3 issues needed to be considered in parallel. This was addressed in tdoc 489.

Huawei: 4.3.X.1, NRSectorCarrier meaning? Pivotal suggested writing "associated" instead.

Nokia: IoC in 4.3.X does not have any attributes. Pivotal commented that this was a container.

Nokia also commented that the definition in 4.3.x.1 was introducing a requirement ("may"). Pivotal replied that this was an Ericsson request.

This was taken offline.

**Decision:** The document was **revised to S5-196600**.

**S5-196600 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 11 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom*

(Replaces S5-196482)

**Decision:** The document was **revised to S5-196845**.

**S5-196845 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 12 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom*

(Replaces S5-196600)

**Discussion:**

Stage 3 issues and mirror CR will be brought next meeting.

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

**S5-196489 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 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom*

**Abstract:**

Stage 3 associated with Stage 2 of "Add NRM Info Model definitions for beam managed object class"

**Discussion:**

Pivotal expected other companies to provide the stage 3 content fo these clauses.The guidelines in TS 32.160 had to be used in this case, and Ericsson volunteered to help here.

Ericsson proposed to postpone this for the next meeting since both stage 2 and 3 needed to go together and there was no agreement in 482 at that time.

MCC clarified that stage 2 CRs could be conditionally agreed, meaning that their final agreement depended on the stage 3 CRs but no further technical discussions would be needed. If the stage 3 CRs were agreed, then the stage 2 CRs could be resubmitted to the same meeting to change their status to "agreed" and then both sent together in a pack. If the stage 3 CR was not agreed, the stage 2 would remain "conditionally agreed" and would not go to SA.

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

**S5-196601 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 1 Cat: F (Rel-15)  
  
 Source: Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom*

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

**S5-196497 Correct definition of network resource**

*Type: CR For: Approval  
 28.622 v15.3.1 CR-0056 Cat: F (Rel-15)  
  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

Samsung: what is "intelligence" meaning here? The previous definition was OK.

Ericsson: the previous only talked about hardware. Samsung replied that there was no hardware mentioned in there.

Nokia: the NOTE is actually the definition of network resource. Huawei supported this and added that information was a too wide concept.

Deutsche Telekom didn’t agree with the wording of the Note.

Intel, Orange: management of MnS is implied here.

Zou Lan (Huawei) suggested to check this definition in other 3GPP groups since it was a very common term.

**Decision:** The document was **revised to S5-196594**.

**S5-196594 Correct definition of network resource**

*Type: CR For: Approval  
 28.622 v15.3.1 CR-0056 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196497)

**Decision:** The document was **revised to S5-196827**.

**S5-196827 Correct definition of network resource**

*Type: CR For: Approval  
 28.622 v15.3.1 CR-0056 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196594)

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

**S5-196498 Correct definition of network resource**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0057 Cat: A (Rel-16)  
  
 Source: Ericsson Telecomunicazioni SpA*

**Decision:** The document was **revised to S5-196595**.

**S5-196595 Correct definition of network resource**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0057 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196498)

**Decision:** The document was **revised to S5-196828**.

**S5-196828 Correct definition of network resource**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0057 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-196595)

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

**S5-196502 Correction of NR definition to avoid misalignment with RAN2**

*Type: CR For: Agreement  
 32.601 v15.0.0 CR-0007 Cat: F (Rel-15)  
  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

Ericsson commented that the content had been agreed in the last meeting but the spec number on the cover was wrong and it was not possible to implement it.

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

**S5-196577 Add new NRM fragment supporting resource allocation and deallocation**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0194 Cat: C (Rel-16)  
  
 Source: Nokia*

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

**S5-196578 Update allocation and deallocation specification due to new NRM fragment for resource allocation and deallocation**

*Type: CR For: Agreement  
 28.531 v16.3.0 CR-0034 Cat: C (Rel-16)  
  
 Source: Nokia*

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

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

#### 6.4.1 Management of QoE measurement collection

**S5-196020 Minutes of Management of QoE measurement collection**

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

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

**S5-196170 pCR TS 28.406 Add introduction**

*Type: pCR For: Approval  
 28.406 v0.0.0  
 Source: Nanjing Ericsson Panda Com Ltd*

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

**S5-196171 pCR TS 28.406 Add scope and reference**

*Type: pCR For: Approval  
 28.406 v0.0.0  
 Source: Nanjing Ericsson Panda Com Ltd*

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

**S5-196365 Editorial revision for Introduction**

*Type: pCR For: Approval  
 28.405 v1.0.0  
 Source: Nanjing Ericsson Panda Com Ltd*

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

**S5-196366 Revise the Introduction**

*Type: CR For: Approval  
 28.404 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Nanjing Ericsson Panda Com Ltd*

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

**S5-196504 pCR R16 28.405-080 Correcting UE request session id**

*Type: pCR For: Agreement  
 28.405 v1.0.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-196505 Correcting recording session id**

*Type: pCR For: Agreement  
 28.405 v1.0.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-196536 Sequence proposal for 6.4.1**

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

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

**S5-196668 Draft TS 28.405**

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

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

**S5-196669 Draft TS 28.406**

*Type: draft TS For: Approval  
 28.406 v0.1.0  
 Source: Ericsson*

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

#### 6.4.2 Energy Efficiency of 5G

**S5-196021 Minutes of Energy effciency of 5G**

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

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

**S5-196053 pCR TS 28.310 Edithelp comments**

*Type: pCR For: Agreement  
 28.310 v1.0.0  
 Source: Orange*

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

**S5-196054 LS to RAN3 on energy efficiency of 5G**

*Type: LS out For: Approval  
 to RAN3, cc SA, RAN2  
 Source: Orange*

**Decision:** The document was **revised to S5-196771**.

**S5-196771 LS to RAN3 on energy efficiency of 5G**

*Type: LS out For: Approval  
 to RAN3, cc SA, RAN2  
 Source: Orange*

(Replaces S5-196054)

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

**S5-196185 Update Intra-RAT energy saving scenario with distributed decision-making**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-196646**.

**S5-196646 Update Intra-RAT energy saving scenario with distributed decision-making**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Nokia*

(Replaces S5-196185)

**Decision:** The document was **revised to S5-196831**.

**S5-196831 Update Intra-RAT energy saving scenario with distributed decision-making**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Nokia*

(Replaces S5-196646)

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

**S5-196191 pCR 28.310 solution for energy saving**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196769**.

**S5-196769 pCR 28.310 solution for energy saving**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196191)

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

**S5-196346 Rel-16 CR TS 28.554 Add 5G Energy Efficiency KPI**

*Type: CR For: Approval  
 28.554 v16.2.0 CR-0032 Cat: B (Rel-16)  
  
 Source: Huawei, Orange*

**Decision:** The document was **revised to S5-196770**.

**S5-196770 Rel-16 CR TS 28.554 Add 5G Energy Efficiency KPI**

*Type: CR For: Approval  
 28.554 v16.2.0 CR-0032 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Orange*

(Replaces S5-196346)

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

**S5-196347 pCR 28.310 Cleanup proposal**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei*

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

**S5-196348 pCR 28.310 Add requirements for energy saving cell overlaid cases**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei, Orange*

**Decision:** The document was **revised to S5-196647**.

**S5-196647 pCR 28.310 Add requirements for energy saving cell overlaid cases**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei, Orange*

(Replaces S5-196348)

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

**S5-196349 pCR 28.310 Add basic concepts related to energy saving**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei, Orange*

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

**S5-196350 pCR 28.310 Add solutions for energy efficiency**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei, Orange*

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

**S5-196351 pCR 28.310 Add overview for various energy saving solutions**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei, Orange*

**Decision:** The document was **revised to S5-196649**.

**S5-196649 pCR 28.310 Add overview for various energy saving solutions**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Huawei, Orange*

(Replaces S5-196351)

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

**S5-196540 LS/r on Energy Efficiency on 5G (3GPP TSG SA5-S5-195667)**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG5*

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

**S5-196645 Draft TS 28.310**

*Type: draft TS For: Approval  
 28.310 v1.1.0  
 Source: Orange*

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

**S5-196648 Update use case on Automatic Cell Clustering for Energy Management**

*Type: pCR For: Approval  
 28.310 v1.0.0  
 Source: Nokia*

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

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

**S5-196022 Minutes of Network policy management for mobile networks based on NFV scenarios**

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

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

**S5-196273 Revised WID network policy management for mobile networks based on NFV scenarios**

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

**Decision:** The document was **revised to S5-196655**.

**S5-196655 Revised WID network policy management for mobile networks based on NFV scenarios**

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

(Replaces S5-196273)

**Decision:** The document was **revised to S5-196834**.

**S5-196834 Revised WID network policy management for mobile networks based on NFV scenarios**

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

(Replaces S5-196655)

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

**S5-196274 pCR 28.311 Add Information Object Classes**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-196656**.

**S5-196656 pCR 28.311 Add Information Object Classes**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-196274)

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

**S5-196275 Add reference**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

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

**S5-196276 pCR 28.311 Add Solution Set(SS)definitions**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-196658**.

**S5-196658 pCR 28.311 Add Solution Set(SS)definitions**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-196276)

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

**S5-196277 pCR 28.311 Add XML definition**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-196659**.

**S5-196659 pCR 28.311 Add XML definition**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-196277)

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

**S5-196278 pCR 28.311 Add SOAP Solution Set**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-196660**.

**S5-196660 pCR 28.311 Add SOAP Solution Set**

*Type: pCR For: Approval  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-196278)

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

**S5-196279 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Discussion  
 28.311 v..  
 Source: China Mobile Com. Corporation*

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

**S5-196280 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Discussion  
 28.311 v..  
 Source: China Mobile Com. Corporation*

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

**S5-196281 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Discussion  
 28.311 v..  
 Source: China Mobile Com. Corporation*

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

**S5-196282 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Discussion  
 28.311 v..  
 Source: China Mobile Com. Corporation*

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

**S5-196283 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Discussion  
 28.311 v..  
 Source: China Mobile Com. Corporation*

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

**S5-196298 Presentation of TS 28.311 for Information to SA#86**

*Type: TS or TR cover For: Information  
 28.311 v0.4.0  
 Source: China Mobile Com. Corporation*

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

**S5-196533 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Agreement  
 28.311 v..  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-196657**.

**S5-196657 Discussion on choices for 28.311 Solution Set**

*Type: discussion For: Agreement  
 28.311 v..  
 Source: China Mobile Com. Corporation*

(Replaces S5-196533)

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

**S5-196832 Draft TS 28.311**

*Type: draft TS For: Approval  
 28.311 v0.5.0  
 Source: China Mobile*

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

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

**S5-196023 Minutes of Intent driven management service for mobile networks**

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

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

**S5-196174 TS 28.312\_000**

*Type: draft TS For: (not specified)  
 28.312 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196186 Add Rollback operation to intent Lifecycle management**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-196650**.

**S5-196650 Add Rollback operation to intent Lifecycle management**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Nokia*

(Replaces S5-196186)

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

**S5-196206 pCR 28.812 Add intent driven coverage optimization scenario**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196651**.

**S5-196651 pCR 28.812 Add intent driven coverage optimization scenario**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196206)

**Decision:** The document was **revised to S5-196833**.

**S5-196833 pCR 28.812 Add intent driven coverage optimization scenario**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196651)

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

**S5-196207 pCR 28.812 Update Figures**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

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

**S5-196208 pCR 28.812 Add solution for Intent driven NSI performance assurance scenario**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196670**.

**S5-196670 pCR 28.812 Add solution for Intent driven NSI performance assurance scenario**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196208)

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

**S5-196209 pCR 28.812 Add potential stage 3 solution for intent driven MnS**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

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

**S5-196210 pCR 28.812 Add the description of MnS component type C in the concept**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196653**.

**S5-196653 pCR 28.812 Add the description of MnS component type C in the concept**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196210)

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

**S5-196211 pCR 28.812 Add the relation between IDMS and SON**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196654**.

**S5-196654 pCR 28.812 Add the relation between IDMS and SON**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196211)

**Decision:** The document was **revised to S5-196835**.

**S5-196835 pCR 28.812 Add the relation between IDMS and SON**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196654)

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

**S5-196212 pCR 28.812 Update Intent Driven Object**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196666**.

**S5-196666 pCR 28.812 Update Intent Driven Object**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

(Replaces S5-196212)

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

**S5-196213 pCR 28.312 Add skeleton**

*Type: pCR For: Approval  
 28.312 v0.0.0  
 Source: Huawei*

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

**S5-196214 pCR 28.312 Add Scope**

*Type: pCR For: Approval  
 28.312 v0.0.0  
 Source: Huawei*

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

**S5-196215 pCR 28.312 Add definition and concept of intent**

*Type: pCR For: Approval  
 28.312 v0.0.0  
 Source: Huawei*

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

**S5-196216 pCR 28.312 Add concept of intent-driven MnS**

*Type: pCR For: Approval  
 28.312 v0.0.0  
 Source: Huawei*

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

**S5-196217 pCR 28.312 Add concept of intent-driven closed-loop**

*Type: pCR For: Approval  
 28.312 v0.0.0  
 Source: Huawei*

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

**S5-196360 pCR 28.812 Add an example of utilization intent Driven MnS for factory private network**

*Type: pCR For: Approval  
 28.812 v0.7.0  
 Source: Huawei*

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

**S5-196364 Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge**

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

**Decision:** The document was **revised to S5-196537**.

**S5-196537 Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge**

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

(Replaces S5-196364)

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

**S5-196652 Draft TR 28.812**

*Type: draft TR For: Approval  
 28.812 v0.8.0  
 Source: Huawei*

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

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

**S5-196024 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**.

**S5-196043 Double S1/NG discussion in relation to retainability**

*Type: discussion For: Endorsement  
 Source: Nokia Solutions & Networks (I)*

**Abstract:**

This discussion paper deals with identification of E-RAB/QoS flow voice releases related to double S1/NG whihc are not perceived as drops by end user.

**Decision:** The document was **revised to S5-196605**.

**S5-196605 Double S1/NG discussion in relation to retainability**

*Type: discussion For: Endorsement  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196043)

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

**S5-196044 Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0133 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

**Abstract:**

Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30.

**Decision:** The document was **revised to S5-196606**.

**S5-196606 Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0133 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196044)

**Decision:** The document was **revised to S5-196836**.

**S5-196836 Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0133 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196606)

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

**S5-196045 Add new measurements related to QoS Flow Setup via Initial Context Setup**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0132 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

**Decision:** The document was **revised to S5-196607**.

**S5-196607 Add new measurements related to QoS Flow Setup via Initial Context Setup**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0132 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196045)

**Decision:** The document was **revised to S5-196837**.

**S5-196837 Add new measurements related to QoS Flow Setup via Initial Context Setup**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0132 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196607)

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

**S5-196046 Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2**

*Type: CR For: Agreement  
 32.425 v16.4.0 CR-0199 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

**Decision:** The document was **revised to S5-196608**.

**S5-196608 Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2**

*Type: CR For: Agreement  
 32.425 v16.4.0 CR-0199 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196046)

**Decision:** The document was **revised to S5-196838**.

**S5-196838 Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2**

*Type: CR For: Agreement  
 32.425 v16.4.0 CR-0199 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196608)

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

**S5-196047 Add new Use case related to extended 5QI 1 QoS Flow Retainability monitoring into A30**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0131 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

**Decision:** The document was **revised to S5-196609**.

**S5-196609 Add new Use case related to extended 5QI 1 QoS Flow Retainability monitoring into A30**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0131 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-196047)

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

**S5-196585 Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0137 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-196163)

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

**S5-196839 Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0137 rev 2 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-196586 Rel-16 CR TS 28.552 Add Unregistered subscribers measurements for UDM**

*Type: CR For: Approval  
 28.552 v16.3.0 CR-0139 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-196165)

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

**S5-196295 Rel-16 CR 28.552 Correct measurements on RTT delay between PSA UPF and UE**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0141 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-196309 Rel-16 CR TS 28.550 add clarification of the NSI and NSSI performance assurance**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0031 Cat: F (Rel-16)  
  
 Source: Huawei Telecommunication India*

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

**S5-196775 Rel-16 CR TS 28.550 add clarification of the NSI and NSSI performance assurance**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0031 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei Telecommunication India*

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

**S5-196333 Discussion paper on LS to RAN3 on QoS monitoring for URLLC**

*Type: discussion For: Endorsement  
 Source: Intel Finland Oy*

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

**S5-196334 LS to RAN3 on QoS monitoring for URLLC**

*Type: LS out For: Approval  
 to RAN3, cc SA2  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196840**.

**S5-196840 LS to RAN3 on QoS monitoring for URLLC**

*Type: LS out For: Approval  
 to RAN3, cc SA2  
 Source: Intel Finland Oy*

(Replaces S5-196334)

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

**S5-196335 Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0142 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196817**.

**S5-196817 Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0142 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196335)

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

**S5-196336 Rel-16 CR 28.552 Add measurements related to registration via trusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0143 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-196337 Rel-16 CR 28.552 Add measurements related to service request via trusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0144 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-196338 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 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196610**.

**S5-196610 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 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196338)

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

**S5-196339 Rel-16 CR 28.552 Add measurements related to QoS flow setup via untrusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0146 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196772**.

**S5-196772 Rel-16 CR 28.552 Add measurements related to QoS flow setup via untrusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0146 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196339)

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

**S5-196340 Rel-16 CR 28.552 Add measurements related to QoS flow modification via untrusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0147 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196773**.

**S5-196773 Rel-16 CR 28.552 Add measurements related to QoS flow modification via untrusted non-3GPP access**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0147 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196340)

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

**S5-196341 Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS via N26 interface**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0148 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196774**.

**S5-196774 Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS via N26 interface**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0148 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-196341)

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

**S5-196390 Add a new description of KPI that related to Mean number of successful periodic registration updates**

*Type: CR For: Agreement  
 28.554 v16.2.0 CR-0033 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-196784**.

**S5-196784 Add a new description of KPI that related to Mean number of successful periodic registration updates**

*Type: CR For: Agreement  
 28.554 v16.2.0 CR-0033 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-196390)

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

**S5-196392 Add a new description of KPI that related to successful rate of mobility registration updates of Single Network Slice Instance**

*Type: CR For: Agreement  
 28.554 v16.2.0 CR-0034 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-196785**.

**S5-196785 Add a new description of KPI that related to successful rate of mobility registration updates of Single Network Slice Instance**

*Type: CR For: Agreement  
 28.554 v16.2.0 CR-0034 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-196392)

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

**S5-196411 Rel-16 CR TS 28.552 Re-orgnize the structure of TS 28.552**

*Type: CR For: (not specified)  
 28.552 v16.3.0 CR-0149 Cat: F (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196776**.

**S5-196776 Rel-16 CR TS 28.552 Re-orgnize the structure of TS 28.552**

*Type: CR For: -  
 28.552 v16.3.0 CR-0149 rev 1 Cat: F (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196411)

**Discussion:**

It was pointed out that this restructuring would affect the CRs for the next meeting and this CR had to be taken into account in order to avoid clashes.

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

**S5-196516 LS on alignment between SA5 and RAN2 on L2 measurements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1911841*

**Decision:** The document was **replied to in S5-196604**.

**S5-196604 Reply to: LS on alignment between SA5 and RAN2 on L2 measurements**

*Type: LS out For: approval  
 to RAN2  
 Source: Intel*

**Decision:** The document was **revised to S5-196841**.

**S5-196841 Reply to: LS on alignment between SA5 and RAN2 on L2 measurements**

*Type: LS out For: approval  
 to RAN2  
 Source: Intel*

(Replaces S5-196604)

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

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

**S5-196025 Minutes of Discovery of management services in 5G**

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

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

**S5-196284 Discussion on URI dynamic discovery**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-196777**.

**S5-196777 Discussion on URI dynamic discovery**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-196284)

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

**S5-196285 Rel-16 CR TS 28.533 Obtaining URI of MnS instance**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0043 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196778**.

**S5-196778 Rel-16 CR TS 28.533 Obtaining URI of MnS instance**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0043 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196285)

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

**S5-196286 Rel-16 CR TS 28.532 MnS instance URI discovery**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0064 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196779**.

**S5-196779 Rel-16 CR TS 28.532 MnS instance URI discovery**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0064 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-196286)

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

**S5-196287 Discussion paper about exposure governance**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-196667**.

**S5-196667 Discussion paper about exposure governance**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-196287)

**Decision:** The document was **revised to S5-196855**.

**S5-196855 Discussion paper about exposure governance**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-196667)

**Decision:** The document was **revised to S5-196887**.

**S5-196887 Discussion paper about exposure governance**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-196855)

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

**S5-196288 Rel-16 CR TS 28.532 Add stage 2 and stage 3 definition for MnS capability query**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0065 Cat: B (Rel-16)  
  
 Source: Huawei*

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

#### 6.4.7 NRM enhancements

**S5-196026 Minutes of NRM enhancements**

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

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

**S5-196187 Extensions to PCF and UPF IOCs for support of TSC (Time Sensitive Communication)**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0161 Cat: C (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-196699**.

**S5-196699 Extensions to PCF and UPF IOCs for support of TSC (Time Sensitive Communication)**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0161 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia*

(Replaces S5-196187)

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

**S5-196222 Rel-15 CR TS 28.541 Update on RRMPolicy**

*Type: CR For: Agreement  
 28.541 v15.4.0 CR-0164 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196223 Rel-16 CR TS 28.541 Update on RRMPolicy**

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

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

**S5-196235 Rel-16 CR TS 28.541 Correct XML Solution Set for NR**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0166 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196847**.

**S5-196847 Rel-16 CR TS 28.541 Correct XML Solution Set for NR**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0166 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196235)

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

**S5-196236 Rel-16 CR TS 28.541 Correct Network slice NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0167 Cat: F (Rel-16)  
  
 Source: Huawei,Ericsson*

**Decision:** The document was **revised to S5-196849**.

**S5-196849 Rel-16 CR TS 28.541 Correct Network slice NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0167 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei,Ericsson*

(Replaces S5-196236)

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

**S5-196237 Rel-16 CR TS 28.623 Correct XML Solution Set for generic NRM**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0031 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196848**.

**S5-196848 Rel-16 CR TS 28.623 Correct XML Solution Set for generic NRM**

*Type: CR For: Agreement  
 28.623 v16.1.0 CR-0031 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196237)

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

**S5-196306 Rel-16 CR TS 28.541 Add OAM support for RIM parameters**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0176 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196810**.

**S5-196810 Rel-16 CR TS 28.541 Add OAM support for RIM parameters**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0176 rev 1 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196306)

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

**S5-196307 Rel-16 CR TS 28.540 Add OAM support for RIM parameters**

*Type: CR For: Agreement  
 28.540 v16.0.0 CR-0003 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196780**.

**S5-196780 Rel-16 CR TS 28.540 Add OAM support for RIM parameters**

*Type: CR For: Agreement  
 28.540 v16.0.0 CR-0003 rev 1 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196307)

**Decision:** The document was **revised to S5-196842**.

**S5-196842 Rel-16 CR TS 28.540 Add OAM support for RIM parameters**

*Type: CR For: Agreement  
 28.540 v16.0.0 CR-0003 rev 2 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196780)

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

**S5-196445 Discussion paper around RRM Policy**

*Type: discussion For: Endorsement  
 28.541 v..  
 Source: Ericsson LM*

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

**S5-196447 Rel-16 CR 28.541 Update of RRM Policy**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0179 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-196454 Add State Handling diagram for NF service**

*Type: CR For: Agreement  
 28.622 v16.1.0 CR-0055 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196701 Add State Handling diagram for NF service**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0195 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196455 Update Stage 2 SEPP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0180 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196700**.

**S5-196700 Update Stage 2 SEPP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0180 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196455)

**Decision:** The document was **revised to S5-196843**.

**S5-196843 Update Stage 2 SEPP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0180 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196700)

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

**S5-196456 Update Stage 3 SEPP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0181 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196457 Add Stage 2 NEF definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0182 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196703**.

**S5-196703 Add Stage 2 NEF definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0182 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196457)

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

**S5-196458 Add Stage 3 NEF definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0183 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196459 Add Stage 2 SCP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0184 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196702**.

**S5-196702 Add Stage 2 SCP definition in 5GC NRM**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0184 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196459)

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

**S5-196460 Add Stage 3 definitions of 5GC NRM to align with stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0185 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196461 Support communication model in 5GC NF - Stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0186 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196704**.

**S5-196704 Support communication model in 5GC NF - Stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0186 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196461)

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

**S5-196462 Support communication model in 5GC NF - Stage 3**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0187 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196514 LS from RAN1 on response to SA5 LS on clarification of OAM requirements for RIM**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R1-1909904*

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

**S5-196517 LS from RAN3 Reply on radio resource management policy**

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

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

**S5-196518 LS from RAN2 to SA5 on radio resource management policy**

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

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

#### 6.4.8 Trace Management in the context of Services Based Management Architecture

**S5-196027 Minutes of Trace Management in the context of Services Based Management Architecture**

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

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

#### 6.4.9 Integration of ONAP and 3GPP 5G management framework

**S5-196028 Minutes of Integration of ONAP and 3GPP 5G management framework**

*Type: report For: (not specified)  
 Source: Rapporteur (AT&T))*

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

**S5-196048 Rel-16 CR 28.532 RESTful CM notifications for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0055 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

**Decision:** The document was **revised to S5-196822**.

**S5-196822 Rel-16 CR 28.532 RESTful CM notifications for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0055 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-196048)

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

**S5-196049 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-0056 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

**Discussion:**

Ericsson: "perf3GPP" has been used by ONAP for another purpose.

Orange: the perf3GPP domain does not exist in ONAP.

It was proposed to ask ONAP before agreeing on this CR.

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

**S5-196050 Shadow TS for Heartbeat Stage 1**

*Type: other For: Agreement  
 Source: AT&T, Deutsche Telekom, Orange*

**Decision:** The document was **revised to S5-196706**.

**S5-196706 Shadow TS for Heartbeat Stage 1**

*Type: other For: Agreement  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-196050)

**Decision:** The document was **revised to S5-196813**.

**S5-196813 Shadow TS for Heartbeat Stage 1**

*Type: other For: Agreement  
 Source: AT&T, Deutsche Telekom, Orange*

(Replaces S5-196706)

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

**S5-196051 Rel-16 CR 28.532 Heartbeat MnS**

*Type: CR For: Approval  
 28.532 v16.1.0 CR-0057 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

**Discussion:**

Huawei: 12.x.1.1 is not configurable instead of not mapped.

Nokia had a similar contribution, tdoc 426 but for another specification (28.622).

Ericsson: why to define a new operation?

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

**S5-196052 Rel-16 CR 28.622 Configurable Heartbeat NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0048 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

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

**S5-196238 Rel-16 CR TS 28.532 Add RESTful HTTP-based solution set of file-based performance assurance for integration with ONAP VES**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0062 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-196262 Rel-16 CR 28.623 Introduce Stage 3 for configurable heartbeat**

*Type: CR For: Approval  
 28.623 v16.1.0 CR-0032 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

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

**S5-196790 Rel-16 CR 28.623 Introduce Stage 3 for configurable heartbeat**

*Type: CR For: Approval  
 28.623 v16.1.0 CR-0032 rev 1 Cat: B (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

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

**S5-196425 CR 28.622 Add subscription NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0053 Cat: B (Rel-16)  
  
 Source: Orange, Nokia, Nokia Shanghai Bell*

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

**S5-196426 CR 28.622 Add heartbeat NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0054 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196789 CR 28.622 Add heartbeat NRM fragment**

*Type: CR For: Approval  
 28.622 v16.1.1 CR-0054 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell,AT&T, Deutsche Telekom, Orange*

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

**S5-196428 CR 28.623 Add subscription NRM fragment**

*Type: CR For: Approval  
 28.623 v16.1.0 CR-0033 Cat: B (Rel-16)  
  
 Source: Orange, Nokia, Nokia Shanghai Bell*

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

**S5-196430 CR 28.623 Add heartbeat NRM fragment**

*Type: CR For: Approval  
 28.623 v16.1.0 CR-0034 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196477 Discussion paper on Heartbeat MnS specification approach**

*Type: discussion For: (not specified)  
 Source: AT&T GNS Belgium SPRL*

**Decision:** The document was **revised to S5-196707**.

**S5-196707 Discussion paper on Heartbeat MnS specification approach**

*Type: discussion For: -  
 Source: AT&T GNS Belgium SPRL*

(Replaces S5-196477)

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

**S5-196479 Discussion paper on Integration of ONAP and 3GPP 5G management WoW**

*Type: discussion For: Endorsement  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-196506 Discussion paper on Integration of ONAP and 3GPP 5G management WoW**

*Type: discussion For: Endorsement  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-196539 Rel-16 CR 28.532 Repair broken links in References**

*Type: CR For: Agreement  
 28.532 v16.1.0 CR-0072 Cat: F (Rel-16)  
  
 Source: AT&T, Deutsche Telekom, Orange*

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

#### 6.4.10 Closed loop SLS Assurance

**S5-196029 Minutes of Closed loop SLS Assurance**

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

**Decision:** The document was **revised to S5-196844**.

**S5-196844 Minutes of Closed loop SLS Assurance**

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

(Replaces S5-196029)

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

**S5-196055 Management and orchestration; Management Services for Communication Service Assurance; Requirements**

*Type: draft TS For: (not specified)  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196056 Management and orchestration; Management Services for Communication Service Assurance; Stage 2 and stage 3**

*Type: draft TS For: (not specified)  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196240 Rel-16 CR TS 28.533 Update Clause A.7 Utilization of management data analystic services**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0042 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-196616 Rel-16 CR TS 28.533 Update Clause A.7 Utilization of management data analystic services**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0042 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-196244 Rel-16 pCR TS 28.535 Add the description of data analytics utilization in closed loop SLA assurance**

*Type: pCR For: Approval  
 28.535 v16.1.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196617 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 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196850**.

**S5-196850 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 1 Cat: B (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196617)

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

**S5-196474 pCR 28.535 Add introduction to concepts and background**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

**Decision:** The document was **revised to S5-196614**.

**S5-196614 pCR 28.535 Add introduction to concepts and background**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196474)

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

**S5-196475 Add introduction**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

**Decision:** The document was **revised to S5-196612**.

**S5-196612 Add introduction**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196475)

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

**S5-196476 Add lifecycle of a communication service**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

**Decision:** The document was **revised to S5-196615**.

**S5-196615 Add lifecycle of a communication service**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196476)

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

**S5-196478 Add management control loops**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196480 Add scope**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-196611**.

**S5-196611 Add scope**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196480)

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

**S5-196481 Communication service assurance business use case and requirements**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

**Decision:** The document was **revised to S5-196619**.

**S5-196619 Communication service assurance business use case and requirements**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196481)

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

**S5-196483 Introduce table of content**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196613 Introduce table of content**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196484 Add introduction**

*Type: pCR For: (not specified)  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

**Decision:** The document was **revised to S5-196742**.

**S5-196742 Add introduction**

*Type: pCR For: -  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196484)

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

**S5-196485 Add lifecycle of a communication service**

*Type: pCR For: Agreement  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

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

**S5-196486 Add scope**

*Type: pCR For: Agreement  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-196741**.

**S5-196741 Add scope**

*Type: pCR For: Agreement  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited,Deutsche Telekom*

(Replaces S5-196486)

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

**S5-196488 Discussion paper on structure of 28.536**

*Type: discussion For: Discussion  
 Source: Ericsson India Private Limited*

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

**S5-196490 Introduce table of content**

*Type: pCR For: Agreement  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-196744**.

**S5-196744 Introduce table of content**

*Type: pCR For: Agreement  
 28.536 v0.0.0  
 Source: Ericsson India Private Limited*

(Replaces S5-196490)

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

**S5-196492 Discussion paper on SLA and SLS**

*Type: discussion For: Endorsement  
 Source: Ericsson India Private Limited*

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

**S5-196494 Add Annex A Analysis of automation enablement use cases**

*Type: pCR For: Approval  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196495 Communication service assurance scenario**

*Type: pCR For: Agreement  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196496 Introduce definition of SLS**

*Type: pCR For: (not specified)  
 28.535 v0.0.0  
 Source: Ericsson India Private Limited*

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

**S5-196618 Draft TS 28.535**

*Type: draft TS For: Approval  
 28.535 v0.1.0  
 Source: Ericsson*

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

**S5-196743 Draft TS 28.536**

*Type: draft TS For: Approval  
 28.536 v0.1.0  
 Source: Ericsson*

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

**S5-196851 Draft TS 28.535**

*Type: draft TS For: Approval  
 28.535 v0.1.0  
 Source: Ericsson*

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

**S5-196852 Draft TS 28.536**

*Type: draft TS For: Approval  
 28.536 v0.1.0  
 Source: Ericsson*

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

#### 6.4.11 Streaming trace reporting

**S5-196030 Minutes of Streaming trace reporting**

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

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

**S5-196444 Add streaming format for Trace**

*Type: draftCR For: Endorsement  
 32.423 v15.1.0  
 Source: Ericsson LM*

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

**S5-196487 Rel-16 CR TS 32.421 Addition of streaming trace requirements**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0087 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-196708**.

**S5-196708 Rel-16 CR TS 32.421 Addition of streaming trace requirements**

*Type: CR For: Approval  
 32.421 v15.2.0 CR-0087 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-196487)

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

**S5-196503 Add streaming format for Trace**

*Type: CR For: Approval  
 32.423 v15.1.0 CR-0098 Cat: B (Rel-16)  
  
 Source: Ericsson Telecomunicazioni SpA*

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

#### 6.4.12 KPI reporting

**S5-196031 Minutes of KPI reporting**

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

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

**S5-196169 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-0031 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196793**.

**S5-196793 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-0031 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei,ZTE, China Telecom*

(Replaces S5-196169)

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

**S5-196376 DP Way forward of KPI reporting related MnS**

*Type: discussion For: Endorsement  
 Source: ZTE Corporation, China Telecom*

**Decision:** The document was **revised to S5-196661**.

**S5-196661 DP Way forward of KPI reporting related MnS**

*Type: discussion For: Endorsement  
 Source: ZTE Corporation, China Telecom*

(Replaces S5-196376)

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

**S5-196389 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 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

**Decision:** The document was **revised to S5-196662**.

**S5-196662 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 1 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

(Replaces S5-196389)

**Decision:** The document was **revised to S5-196853**.

**S5-196853 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 2 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

(Replaces S5-196662)

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

**S5-196393 Rel-16 CR TS 28.550 Add UC and requirements for NSSI KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0035 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

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

**S5-196663 Rel-16 CR TS 28.550 Add UC and requirements for NSSI KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0035 rev 1 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

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

**S5-196394 Rel-16 CR TS 28.550 Add UC and requirements for NSI KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0036 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

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

**S5-196397 Rel-16 CR TS 28.550 Add UC and requirements for NetworkSubNetwork KPI job control**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0037 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

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

**S5-196409 Rel-16 CR TS 28.550 Add KPI job control service**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0038 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

**Decision:** The document was **revised to S5-196748**.

**S5-196748 Rel-16 CR TS 28.550 Add KPI job control service**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0038 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

(Replaces S5-196409)

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

**S5-196410 Rel-16 CR TS 28.550 Update the description of scope**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0039 Cat: F (Rel-16)  
  
 Source: ZTE, China Telecom*

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

**S5-196412 Rel-16 CR TS 28.554 Update the KPI template**

*Type: CR For: Agreement  
 28.554 v16.2.0 CR-0035 Cat: F (Rel-16)  
  
 Source: ZTE, China Telecom*

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

#### 6.4.13 Self-Organizing Networks (SON) for 5G networks

**S5-196032 Minutes of Self-Organizing Networks (SON) for 5G networks**

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

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

**S5-196192 draft TS 28313-000**

*Type: draft TS For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196671**.

**S5-196671 draft TS 28313-000**

*Type: draft TS For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196192)

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

**S5-196193 dtaft TS 28544-000**

*Type: draft TS For: Approval  
 28.544 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196194 pCR 28.313 skeleton**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196672**.

**S5-196672 pCR 28.313 skeleton**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196194)

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

**S5-196195 pCR 28.544 skeleton**

*Type: pCR For: Approval  
 28.544 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196196 pCR 28.313 introduction and scope**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196674**.

**S5-196674 pCR 28.313 introduction and scope**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196196)

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

**S5-196197 pCR 28.544 introduction and scope**

*Type: pCR For: (not specified)  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196198 pCR 28.313 concepts**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196675**.

**S5-196675 pCR 28.313 concepts**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Huawei, Intel, China Telecommunications, Ericsson*

(Replaces S5-196198)

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

**S5-196199 pCR 28.313 RACH optimization use case**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196696**.

**S5-196696 pCR 28.313 RACH optimization use case**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd,Ericsson*

(Replaces S5-196199)

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

**S5-196200 pCR 28.313 RACH optimization use case**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196201 pCR 28.313 RACH optimization procedure**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196697**.

**S5-196697 pCR 28.313 RACH optimization procedure**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd,Ericsson*

(Replaces S5-196201)

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

**S5-196202 pCR 28.313 RACH optimization information**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196698**.

**S5-196698 pCR 28.313 RACH optimization information**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd,Ericsson*

(Replaces S5-196202)

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

**S5-196203 pCR 28.313 MRO use case**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196746**.

**S5-196746 pCR 28.313 MRO use case**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196203)

**Decision:** The document was **revised to S5-196857**.

**S5-196857 pCR 28.313 MRO use case**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd,Ericsson*

(Replaces S5-196746)

**Discussion:**

It fixes the term "send" as commented by Nokia.

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

**S5-196204 pCR 28.313 MRO procedure**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196747**.

**S5-196747 pCR 28.313 MRO procedure**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd,Ericsson*

(Replaces S5-196204)

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

**S5-196205 pCR 28.313 MRO information**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-196749**.

**S5-196749 pCR 28.313 MRO information**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196205)

**Decision:** The document was **revised to S5-196858**.

**S5-196858 pCR 28.313 MRO information**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-196749)

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

**S5-196310 pCR 28.313 Add PCI configuration use case and requirements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196751**.

**S5-196751 pCR 28.313 Add PCI configuration use case and requirements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196310)

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

**S5-196311 pCR 28.313 Add ANR management use case and requirements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196801 pCR 28.313 Add ANR management use case and requirements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196312 pCR 28.313 Add CCO use cases and requriements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196313 pCR 28.313 Add MRO use cases and requriements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196750**.

**S5-196750 pCR 28.313 Add MRO use cases and requriements**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196313)

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

**S5-196319 pCR 28.313 ANR Business level requirements**

*Type: pCR For: Agreement  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196802**.

**S5-196802 pCR 28.313 ANR Business level requirements**

*Type: pCR For: Agreement  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196319)

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

**S5-196320 pCR 28.313 ANR Specification level requirements for NR RAN**

*Type: pCR For: Agreement  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196803**.

**S5-196803 pCR 28.313 ANR Specification level requirements for NR RAN**

*Type: pCR For: Agreement  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196320)

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

**S5-196321 pCR 28.313 ANR Specification level requirements for E-UTRAN**

*Type: pCR For: Agreement  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196804**.

**S5-196804 pCR 28.313 ANR Specification level requirements for E-UTRAN**

*Type: pCR For: Agreement  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196321)

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

**S5-196859 ANR Specification level requirements for E-UTRAN**

*Type: CR For: Agreement  
 32.511 v15.0.0 CR-0026 Cat: B (Rel-16)  
  
 Source: Ericsson France S.A.S*

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

**S5-196361 pCR 28.313 Add SON Concept**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Huawei,China Telecommunications*

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

**S5-196362 pCR 28.313 Add usecase and requirements for establishment of new NF in network**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Huawei,China Telecommunications*

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

**S5-196400 Add Concept for Establishment of new NF in network**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: China Telecommunications, Huawei*

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

**S5-196401 Add Concept for Establishment of new NF in network**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: China Telecommunications, Huawei*

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

**S5-196414 Organizing Self Organizing Specifications**

*Type: discussion For: Endorsement  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196673**.

**S5-196673 Organizing Self Organizing Specifications**

*Type: discussion For: Endorsement  
 Source: Ericsson France S.A.S*

(Replaces S5-196414)

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

**S5-196418 pCR 28.313 Add ANR Use Case: Start**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196794**.

**S5-196794 pCR 28.313 Add ANR Use Case: Start**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196418)

**Decision:** The document was **revised to S5-196860**.

**S5-196860 pCR 28.313 Add ANR Use Case: Start**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196794)

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

**S5-196419 pCR 28.313 Add ANR Use Case: Stop**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196795**.

**S5-196795 pCR 28.313 Add ANR Use Case: Stop**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196419)

**Decision:** The document was **revised to S5-196861**.

**S5-196861 pCR 28.313 Add ANR Use Case: Stop**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196795)

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

**S5-196420 pCR 28.313 Add ANR Use Case: Notification**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196796**.

**S5-196796 pCR 28.313 Add ANR Use Case: Notification**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196420)

**Decision:** The document was **revised to S5-196862**.

**S5-196862 pCR 28.313 Add ANR Use Case: Notification**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196796)

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

**S5-196421 pCR 28.313 Add ANR Use Case: Handover whitelisting**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196797**.

**S5-196797 pCR 28.313 Add ANR Use Case: Handover whitelisting**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196421)

**Decision:** The document was **revised to S5-196863**.

**S5-196863 pCR 28.313 Add ANR Use Case: Handover whitelisting**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196797)

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

**S5-196422 pCR 28.313 Add ANR Use Case: Handover blacklisting**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196798**.

**S5-196798 pCR 28.313 Add ANR Use Case: Handover blacklisting**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196422)

**Decision:** The document was **revised to S5-196864**.

**S5-196864 pCR 28.313 Add ANR Use Case: Handover blacklisting**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196798)

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

**S5-196423 pCR 28.313 Add ANR Use Case: Prohibit X2/Xn**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196799**.

**S5-196799 pCR 28.313 Add ANR Use Case: Prohibit X2/Xn**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196423)

**Decision:** The document was **revised to S5-196865**.

**S5-196865 pCR 28.313 Add ANR Use Case: Prohibit X2/Xn**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196799)

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

**S5-196424 pCR 28.313 Add ANR Use Case: Prohibit X2/Xn handover**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-196800**.

**S5-196800 pCR 28.313 Add ANR Use Case: Prohibit X2/Xn handover**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196424)

**Decision:** The document was **revised to S5-196866**.

**S5-196866 pCR 28.313 Add ANR Use Case: Prohibit X2/Xn handover**

*Type: pCR For: Approval  
 28.313 v0.0.0  
 Source: Ericsson France S.A.S*

(Replaces S5-196800)

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

**S5-196531 Sequence of pCR discussion**

*Type: other For: Approval  
 28.313 v..  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196856 Draft TS 28.313**

*Type: draft TS For: Approval  
 28.313 v0.1.0  
 Source: Intel*

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

#### 6.4.14 Enhancement of 3GPP management system for multiple tenant environment support

**S5-196033 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**.

**S5-196289 Rel-16 CR TS 28.530 Add concept descritipn for tenant information**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0011 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196753**.

**S5-196753 Rel-16 CR TS 28.530 Add concept descritipn for tenant information**

*Type: CR For: Agreement  
 28.530 v16.0.0 CR-0011 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196289)

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

**S5-196290 Rel-16 CR TS 28.533 Add concept descritipn for management capabiliy**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0044 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196754**.

**S5-196754 Rel-16 CR TS 28.533 Add concept descritipn for management capabiliy**

*Type: CR For: Agreement  
 28.533 v16.1.0 CR-0044 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196290)

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

**S5-196291 Discussion paper about tenant information usage in network slice NRM**

*Type: discussion For: Endorsement  
 Source: Huawei*

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

**S5-196292 Rel-16 CR TS 28.541 ServiceProfile extension to support multiple tenants environment**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0174 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-196293 Rel-16 CR TS 28.550 Performance management service enhancement for tenant supporting**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0030 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196755**.

**S5-196755 Rel-16 CR TS 28.550 Performance management service enhancement for tenant supporting**

*Type: CR For: Agreement  
 28.550 v16.2.0 CR-0030 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196293)

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

**S5-196294 Rel-16 CR TS 28.552 Performance measurement extension to support multiple tenants environment**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0140 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196756**.

**S5-196756 Rel-16 CR TS 28.552 Performance measurement extension to support multiple tenants environment**

*Type: CR For: Agreement  
 28.552 v16.3.0 CR-0140 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196294)

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

#### 6.4.15 Management Aspects of 5G Service-Level Agreement

**S5-196034 Minutes of Management Aspects of 5G Service-Level Agreement**

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

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

**S5-196342 Rel-16 CR TS 28.540 Add GSMA GST mapping related requirements**

*Type: CR For: Approval  
 28.540 v16.0.0 CR-0004 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-196641**.

**S5-196641 Rel-16 CR TS 28.540 Add GSMA GST mapping related requirements**

*Type: CR For: Approval  
 28.540 v16.0.0 CR-0004 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile,Nokia*

(Replaces S5-196342)

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

**S5-196343 Rel-16 CR TS 28.541 Update on slice model**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0177 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-196642**.

**S5-196642 Rel-16 CR TS 28.541 Update on slice model**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0177 rev 1 Cat: C (Rel-16)  
  
 Source: Huawei, China Mobile, Nokia, Nokia Shanghai Bell*

(Replaces S5-196343)

**Discussion:**

Depending on stage 3 CR for the next meeting.

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

**S5-196344 Living document of review of GSMA GST**

*Type: other For: Approval  
 Source: Huawei, China Mobile*

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

**S5-196345 Rel-16 CR 28.541 Add relation of GST and profiles**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0178 Cat: B (Rel-16)  
  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-196620**.

**S5-196620 Rel-16 CR 28.541 Add relation of GST and profiles**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0178 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, China Mobile*

(Replaces S5-196345)

**Decision:** The document was **revised to S5-196867**.

**S5-196867 Rel-16 CR 28.541 Add relation of GST and profiles**

*Type: CR For: Approval  
 28.541 v16.2.0 CR-0178 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei, China Mobile*

(Replaces S5-196620)

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

**S5-196396 Add description and requirements of communication service instance monitoring**

*Type: CR For: Agreement  
 28.805 v16.0.0 CR-0001 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

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

**S5-196398 Add description of communication service lifecycle prepareation phase**

*Type: CR For: Agreement  
 28.805 v16.0.0 CR-0002 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

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

**S5-196399 Add description of communication service catelogue**

*Type: CR For: Agreement  
 28.805 v16.0.0 CR-0003 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

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

**S5-196402 pCR28.805 Add New Possible Parameters in the Mapping Between GSMA GST and SA5 NST**

*Type: CR For: Approval  
 28.805 v16.0.0 CR-0004 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

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

**S5-196403 Discussion on the effect to existed 5G management system when introduced 5G SLA**

*Type: discussion For: Discussion  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-196783**.

**S5-196783 Discussion on the effect to existed 5G management system when introduced 5G SLA**

*Type: discussion For: Discussion  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-196403)

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

**S5-196463 Add requirement in NRM to support GST attributes**

*Type: CR For: Agreement  
 28.540 v16.0.0 CR-0005 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196464 Add generic characters of GST in slice NRM - stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0188 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196643 Add generic characters of GST in slice NRM - stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0188 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196465 Add generic characters of GST in slice NRM - stage 3**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0189 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196466 Update CoverageArea attribute in service profile - stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0190 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196644 Update CoverageArea attribute in service profile - stage 2**

*Type: CR For: Agreement  
 28.541 v16.2.0 CR-0190 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196467 Update CoverageArea attribute in service profile - stage 3**

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

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

**S5-196745 Way of working for translation of GSMA GST/NEST**

*Type: discussion For: discussion  
 Source: Ericsson*

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

**S5-196757 LS to GSMA on GST**

*Type: LS out For: Approval  
 to GSMA 5GJA, cc 3GPP SA, ETSI ISG ZSM  
 Source: Orange*

**Decision:** The document was **revised to S5-196868**.

**S5-196868 LS to GSMA on GST**

*Type: LS out For: Approval  
 to GSMA 5GJA, cc 3GPP SA, ETSI ISG ZSM  
 Source: Orange*

(Replaces S5-196757)

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

### 6.5 OAM&P Studies

#### 6.5.1 Study on protocol enhancement for real time communication

**S5-196035 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

**S5-196036 Minutes of Study on Self-Organizing Networks (SON) for 5G**

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

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

**S5-196175 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*

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

**S5-196176 Allow for service-centric load redistribution to concurrently optimize load distribution and service performance**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-196818**.

**S5-196818 Allow for service-centric load redistribution to concurrently optimize load distribution and service performance**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196176)

**Decision:** The document was **revised to S5-196870**.

**S5-196870 Allow for service-centric load redistribution to concurrently optimize load distribution and service performance**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196818)

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

**S5-196177 Extend the usecase to allow for PCI optimization in multi-layer scenarios**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-196820**.

**S5-196820 Extend the usecase to allow for PCI optimization in multi-layer scenarios**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196177)

**Decision:** The document was **revised to S5-196871**.

**S5-196871 Extend the usecase to allow for PCI optimization in multi-layer scenarios**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196820)

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

**S5-196178 Update cell neighbour relationship indication**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196179 Update use case on Automatic Cell Clustering for Energy Management**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196180 Update ANR optimization use case to allow for use of deployment data**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196181 Update SON coordination use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196182 Add requirement for NR indication to ANR optimization usecase**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196183 Add requirements for supporting Multi-layer deployment scenarios to PCI Configuration use case**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

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

**S5-196184 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 **revised to S5-196846**.

**S5-196846 Update requirements for Load Balancing Optimization to allow for service centric resource optimization**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196184)

**Decision:** The document was **revised to S5-196872**.

**S5-196872 Update requirements for Load Balancing Optimization to allow for service centric resource optimization**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Nokia*

(Replaces S5-196846)

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

**S5-196190 pCR 28.861 cleanup**

*Type: pCR For: Approval  
 28.861 v1.0.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196318 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 **not treated**.

**S5-196413 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 **not treated**.

**S5-196532 Sequence of pCR discussion**

*Type: other For: Approval  
 28.861 v..  
 Source: Intel Corporation (UK) Ltd*

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

**S5-196869 Draft TR 28.861**

*Type: draft TR For: Approval  
 28.861 v1.1.0  
 Source: Intel*

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

#### 6.5.3 Study on non-public networks management

**S5-196037 Minutes of Study on non-public networks management**

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

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

**S5-196245 pCR TR 28.807 Roles related to NPN management**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: TELEFONICA S.A.*

**Decision:** The document was **revised to S5-196713**.

**S5-196713 pCR TR 28.807 Roles related to NPN management**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: TELEFONICA S.A.*

(Replaces S5-196245)

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

**S5-196322 UC Deployment of a stand-alone NPN with 3GPP and non-3GPP segments**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: TELEFONICA S.A.*

**Decision:** The document was **revised to S5-196734**.

**S5-196734 UC Deployment of a stand-alone NPN with 3GPP and non-3GPP segments**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: TELEFONICA S.A.*

(Replaces S5-196322)

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

**S5-196352 pCR 28.807 Update on general concept**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196710**.

**S5-196710 pCR 28.807 Update on general concept**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

(Replaces S5-196352)

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

**S5-196353 pCR 28.807 clean-up use case of NPN provisioning by a network slice of a PLMN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196709**.

**S5-196709 pCR 28.807 clean-up use case of NPN provisioning by a network slice of a PLMN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

(Replaces S5-196353)

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

**S5-196354 pCR 28.807 Management of stand-alone non-public networks**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196711**.

**S5-196711 pCR 28.807 Management of stand-alone non-public networks**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

(Replaces S5-196354)

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

**S5-196355 pCR 28.807 Management of public network integrated NPN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196712**.

**S5-196712 pCR 28.807 Management of public network integrated NPN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

(Replaces S5-196355)

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

**S5-196356 pCR 28.807 Add use case of NPN provisioning by a stand-alone non-public network**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

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

**S5-196735 pCR 28.807 Add use case of NPN provisioning by a stand-alone non-public network**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

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

**S5-196357 pCR 28.807 Add requirements for management of public network integrated NPN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196737**.

**S5-196737 pCR 28.807 Add requirements for management of public network integrated NPN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

(Replaces S5-196357)

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

**S5-196358 pCR 28.807 Add use case of providing traffic management and monitoring capability to an NPN operator**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196736**.

**S5-196736 pCR 28.807 Add use case of providing traffic management and monitoring capability to an NPN operator**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

(Replaces S5-196358)

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

**S5-196359 pCR 28.807 Add use case of 3rd party management of NPN**

*Type: pCR For: Approval  
 28.807 v0.1.0  
 Source: Huawei*

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

**S5-196873 Draft TR 28.807**

*Type: draft TR For: Approval  
 28.807 v0.2.0  
 Source: Huawei*

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

#### 6.5.4 Study on management and orchestration aspects with integrated satellite components in a 5G network

**S5-196038 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**.

**S5-196441 pCR 28.808 Editorial corrections**

*Type: pCR For: Approval  
 28.808 v0.2.0  
 Source: TNO*

**Decision:** The document was **revised to S5-196664**.

**S5-196664 pCR 28.808 Editorial corrections and requirement removals**

*Type: pCR For: Approval  
 28.808 v0.2.0  
 Source: TNO*

(Replaces S5-196441)

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

**S5-196443 pCR 28.808 Add use case for creation of a network slice instance associated with a Satellite RAN and a Terrestrial RAN**

*Type: pCR For: Approval  
 28.808 v0.2.0  
 Source: TNO*

**Decision:** The document was **revised to S5-196665**.

**S5-196665 pCR 28.808 Add use case for creation of a network slice instance associated with a Satellite RAN and a Terrestrial RAN**

*Type: pCR For: Approval  
 28.808 v0.2.0  
 Source: TNO*

(Replaces S5-196443)

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

**S5-196874 Draft TR 28.808**

*Type: draft TR For: Approval  
 28.808 v0.30  
 Source: Thales*

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

#### 6.5.5 Study on enhancement of Management Data Analytics Service

**S5-196039 Minutes of Study on enhancement of Management Data Analytics Service**

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

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

**S5-196267 pCR 28.535 Add analytics scenario introduction**

*Type: pCR For: (not specified)  
 28.535 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196268 pCR 28.535 on MDAS assisted slice resource allocation**

*Type: pCR For: (not specified)  
 28.535 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196269 pCR 28.535 on MDAS assisted E2E latency assurance**

*Type: pCR For: (not specified)  
 28.535 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196270 pCR 28.535 on MDAS assisted SLS translation**

*Type: pCR For: (not specified)  
 28.535 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-196271 pCR 28.535 on MDAS assisted coverage performance assuranace**

*Type: pCR For: (not specified)  
 28.535 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-196815**.

**S5-196815 pCR 28.535 on MDAS assisted coverage performance assuranace**

*Type: pCR For: -  
 28.535 v0.0.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-196271)

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

**S5-196326 pCR Add skeleton of draft TR 28.809**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196752**.

**S5-196752 pCR Add skeleton of draft TR 28.809**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

(Replaces S5-196326)

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

**S5-196327 pCR Add overview for MDA**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196812**.

**S5-196812 pCR Add overview for MDA**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

(Replaces S5-196327)

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

**S5-196328 Add MDA process**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

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

**S5-196329 Add relation between MDA and SON**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

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

**S5-196330 Add UC on coverage issue analysis**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-196814**.

**S5-196814 Add UC on coverage issue analysis**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy*

(Replaces S5-196330)

**Decision:** The document was **revised to S5-196877**.

**S5-196877 Add UC on coverage issue analysis**

*Type: pCR For: Agreement  
 28.809 v0.0.0  
 Source: Intel Finland Oy,Huawei*

(Replaces S5-196814)

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

**S5-196395 Add Automatic CSI to NSI mapping use case**

*Type: discussion For: Approval  
 28.861 v..  
 Source: China Mobile E-Commerce Co.*

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

**S5-196404 pCR 28.809 Add MDAS assisted NWDAF related use cases**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196405 pCR 28.809 Add descriptions of different data types for analytics purpose**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196406 pCR 28.809 Add use case of MDAS assisted KPI anomaly detection**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196407 pCR 28.809 Add use case of MDAS assisted alarm incident detection**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196408 pCR 28.809 Add use case of MDAS assisted resource allocation analysis across multiple NSI**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196416 pCR 28.809 Add use case of MDAS assisted user data congestion analysis**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196417 pCR 28.809 Add use case of MDAS assisted traffic load analysis**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

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

**S5-196442 pCR 28.809 Add use case of MDAS assisted user data congestion analysis**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196816**.

**S5-196816 pCR 28.809 Add use case of MDAS assisted user data congestion analysis**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

(Replaces S5-196442)

**Decision:** The document was **revised to S5-196876**.

**S5-196876 pCR 28.809 Add use case of MDAS assisted user data congestion analysis**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: Huawei*

(Replaces S5-196816)

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

**S5-196501 pCR TR28.809 Add concept for Management Data Analytics**

*Type: pCR For: Approval  
 28.809 v0.0.0  
 Source: NEC Corporation*

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

**S5-196520 Ls from RAN3 Reply on User Data Congestion Analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-194749*

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

**S5-196875 Draft TR 28.809**

*Type: draft TR For: Approval  
 28.809 v0.1.0  
 Source: Intel*

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

#### 6.5.6 Study on autonomous network levels

**S5-196040 Minutes of Study on autonomous network levels**

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

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

**S5-196323 pCR 28.810 Add skeleton**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: China Mobile, Huawei, ZTE, Turkcell*

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

**S5-196324 pCR 28.810 Add background**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: China Mobile, Huawei*

**Decision:** The document was **revised to S5-196739**.

**S5-196739 pCR 28.810 Add background**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: China Mobile, Huawei*

(Replaces S5-196324)

**Decision:** The document was **revised to S5-196878**.

**S5-196878 pCR 28.810 Add background**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: China Mobile, Huawei*

(Replaces S5-196739)

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

**S5-196325 pCR 28.810 Add scope**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: China Mobile, Huawei*

**Decision:** The document was **revised to S5-196740**.

**S5-196740 pCR 28.810 Add scope**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: China Mobile, Huawei*

(Replaces S5-196325)

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

**S5-196363 pCR 28.810 Add concept of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.0.0  
 Source: Huawei,China Mobile*

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

**S5-196391 Study on concept, requirements and solutions for levels of autonomous network**

*Type: draft TR For: Information  
 28.810 v0.0.0  
 Source: China Mobile, Huawei, ZTE, Turkcell*

**Abstract:**

Skeleton, first draft.

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

**S5-196738 Draft TR 28.810**

*Type: draft TR For: Approval  
 28.810 v0.1.0  
 Source: China Mobile*

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

## 7 Charging

### 7.1 Charging Plenary

**S5-196041 CH Agenda and Time Plan**

*Type: agenda For: (not specified)  
 Source: CH SWG Chair*

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

**S5-196042 CH Executive Report**

*Type: report For: (not specified)  
 Source: CH SWG Chair*

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

**S5-196515 LS from RAN2 ccSA5 on System Impacts of NR-U**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1911533*

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

**S5-196528 Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover**

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

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

**S5-196764 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: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: ETSI TC LI*

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

### 7.2 New Charging Work Item proposals

**S5-196057 New WID Charging Access Traffic Steering, Switching and Splitting in 5G system architecture**

*Type: WID new For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196542**.

**S5-196542 New WID Charging Access Traffic Steering, Switching and Splitting in 5G system architecture**

*Type: WID new For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196057)

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

**S5-196167 NWI on Charging for 5WWC**

*Type: WID new For: Agreement  
 Source: Huawei Telecommunication India*

**Decision:** The document was **revised to S5-196543**.

**S5-196543 NWI on Charging for 5WWC**

*Type: WID new For: Agreement  
 Source: Huawei Telecommunication India*

(Replaces S5-196167)

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

**S5-196525 New WID CCS-controlled Quota Management in Nchf Converged Charging**

*Type: WID new For: Approval  
 Source: Amdocs Software Systems Ltd*

**Abstract:**

For resource optimization CHF may suspend and resume quota management.

**Decision:** The document was **revised to S5-196544**.

**S5-196544 New WID CHF-controlled quota management**

*Type: WID new For: Approval  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-196525)

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

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-196058 Rel-15 CR 32.255 Add the Service Specification information**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0091 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196059 Rel-15 CR 32.291 Add the Service Specification information**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0128 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196565**.

**S5-196565 Rel-15 CR 32.291 Add the Service Specification information**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0128 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196059)

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

**S5-196060 Rel-15 CR 32.298 Add the Service Specification information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0741 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196567**.

**S5-196567 Rel-15 CR 32.298 Add the Service Specification information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0741 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196060)

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

**S5-196061 Discussion paper on 5G QoS support**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**S5-196062 Rel-15 CR 32.255 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0092 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196063 Rel-15 CR 32.291 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0129 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196064 Rel-15 CR 32.255 Add the QNC support**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0093 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196569**.

**S5-196569 Rel-15 CR 32.255 Add the QNC support**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0093 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196064)

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

**S5-196065 Rel-15 CR 32.291 Add the QNC support**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0130 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196571**.

**S5-196571 Rel-15 CR 32.291 Add the QNC support**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0130 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196065)

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

**S5-196066 Rel-15 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0131 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196622**.

**S5-196622 Rel-15 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0131 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196066)

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

**S5-196067 Rel-15 CR 32.298 Add the selection model in PDU session information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0742 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196068 Rel-15 CR 32.255 correction of PCC rules description**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0094 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196624**.

**S5-196624 Rel-15 CR 32.255 correction of PCC rules description**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0094 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196068)

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

**S5-196069 Rel-15 CR 32.255 Correction of UPF ID in CHF CDR data**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0095 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196070 Rel-15 CR 32.290 Correction of notify response**

*Type: CR For: Agreement  
 32.290 v15.5.0 CR-0081 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196626**.

**S5-196626 Rel-15 CR 32.290 Correction of notify response**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0081 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196070)

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

**S5-196071 Rel-15 CR 32.291 Correction of notify response**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0132 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196628**.

**S5-196628 Rel-15 CR 32.291 Correction of notify response**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0132 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196071)

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

**S5-196072 Rel-15 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0133 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196630**.

**S5-196630 Rel-15 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0133 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196072)

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

**S5-196073 Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0134 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196634**.

**S5-196634 Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0134 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196073)

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

**S5-196074 Rel-15 CR 32.255 Correction of reportTime**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0096 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196636**.

**S5-196636 Rel-15 CR 32.255 Correction of reportTime**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0096 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196074)

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

**S5-196075 Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0743 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196637**.

**S5-196637 Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0743 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196075)

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

**S5-196076 Rel-15 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0744 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196077 Rel-15 CR 32.255 Add the sponsor based charging**

*Type: CR For: Discussion  
 32.255 v15.4.0 CR-0097 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196639**.

**S5-196639 Rel-15 CR 32.255 Add the sponsor based charging**

*Type: CR For: Discussion  
 32.255 v15.4.0 CR-0097 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196077)

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

**S5-196078 Rel-15 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0098 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196676**.

**S5-196676 Rel-15 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0098 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196078)

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

**S5-196079 Rel-15 32.298 Correction of ASN.1 NetworkFunctionName**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0745 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196080 Rel-15 CR 32.255 Add the Service Specification information**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0099 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196081 Rel-15 CR 32.291 Add the Service Specification information**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0135 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196082 Rel-15 CR 32.298 Add the Service Specification information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0746 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196083 Discussion paper on 5G QoS support**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**S5-196084 Rel-15 CR 32.255 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0100 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196085 Rel-15 CR 32.291 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0136 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196086 Rel-15 CR 32.255 Add the QNC support**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0101 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196087 Rel-15 CR 32.291 Add the QNC support**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0137 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196088 Rel-15 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0138 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196089 Rel-15 CR 32.298 Add the selection model in PDU session information**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0747 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196090 Rel-15 CR 32.255 correction of PCC rules description**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0102 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196091 Rel-15 CR 32.255 Correction of UPF ID in CHF CDR data**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0103 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196092 Rel-15 CR 32.290 Correction of notify response**

*Type: CR For: Agreement  
 32.290 v15.5.0 CR-0082 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196093 Rel-15 CR 32.291 Correction of notify response**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0139 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196094 Rel-15 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0140 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196095 Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0141 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196096 Rel-15 CR 32.255 Correction of reportTime**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0104 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196097 Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0748 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196098 Rel-15 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0749 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196099 Rel-15 CR 32.255 Add the sponsor based charging**

*Type: CR For: Discussion  
 32.255 v15.4.0 CR-0105 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196100 Rel-15 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v15.4.0 CR-0106 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196101 Rel-15 32.298 Correction of ASN.1 NetworkFunctionName**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0750 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196102 Rel-15 32.298 Correction of ASN.1 AMFID**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0751 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196680**.

**S5-196680 Rel-15 32.298 Correction of ASN.1 AMFID**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0751 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196102)

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

**S5-196103 Rel-15 32.298 Correction of ASN.1 userLocationInformation**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0752 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196732**.

**S5-196732 Rel-15 32.298 Correction of ASN.1 userLocationInformation**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0752 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196103)

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

**S5-196104 Rel-15 CR 32.291 Correction of subscriberIdentifier**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0142 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196105 Rel-15 CR 32.291 Correction on OpenAPI for usedunitcontainer**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0143 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196106 Rel-16 CR 32.255 Add the Service Specification information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0107 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196107 Rel-16 CR 32.291 Add the Service Specification information**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0144 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196566**.

**S5-196566 Rel-16 CR 32.291 Add the Service Specification information**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0144 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196107)

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

**S5-196108 Rel-16 CR 32.298 Add the Service Specification information**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0753 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196568**.

**S5-196568 Rel-16 CR 32.298 Add the Service Specification information**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0753 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196108)

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

**S5-196109 Rel-16 CR 32.255 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0108 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196730**.

**S5-196730 Rel-16 CR 32.255 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0108 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196109)

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

**S5-196110 Rel-16 CR 32.291 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0145 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196731**.

**S5-196731 Rel-16 CR 32.291 Add the QoS Characteristics**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0145 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196110)

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

**S5-196111 Rel-16 CR 32.255 Add the QNC support**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0109 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196570**.

**S5-196570 Rel-16 CR 32.255 Add the QNC support**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0109 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196111)

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

**S5-196112 Rel-15 CR 32.291 Add the QNC support**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0146 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196621**.

**S5-196621 Rel-15 CR 32.291 Add the QNC support**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0146 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196112)

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

**S5-196113 Rel-15 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0147 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196623**.

**S5-196623 Rel-16 CR 32.291 Clarify the QoS change trigger**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0147 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196113)

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

**S5-196114 Rel-16 CR 32.298 Add the selection model in PDU session information**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0754 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196115 Rel-16 CR 32.255 correction of PCC rules description**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0110 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196625**.

**S5-196625 Rel-16 CR 32.255 correction of PCC rules description**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0110 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196115)

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

**S5-196116 Rel-16 CR 32.255 Correction of UPF ID in CHF CDR data**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0111 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196117 Rel-16 CR 32.290 Correction of notify response**

*Type: CR For: Agreement  
 32.290 v16.2.0 CR-0083 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196627**.

**S5-196627 Rel-16 CR 32.290 Correction of notify response**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0083 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196117)

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

**S5-196118 Rel-16 CR 32.291 Correction of notify response**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0148 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196629**.

**S5-196629 Rel-16 CR 32.291 Correction of notify response**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0148 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196118)

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

**S5-196119 Rel-16 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0149 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196631**.

**S5-196631 Rel-16 CR 32.291 Correction of ChargingDataResponse description**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0149 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196119)

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

**S5-196120 Rel-16 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0150 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196635**.

**S5-196635 Rel-16 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0150 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196120)

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

**S5-196121 Rel-16 CR 32.255 Correction of reportTime**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0112 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196122 Rel-16 CR 32.298 Correct inconsistent CHF CDR parameter**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0755 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196638**.

**S5-196638 Rel-16 CR 32.298 Correct inconsistent CHF CDR parameter**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0755 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196122)

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

**S5-196123 Rel-16 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0756 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196124 Rel-16 CR 32.255 Add the sponsor based charging**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0113 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196640**.

**S5-196640 Rel-16 CR 32.255 Add the sponsor based charging**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0113 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196124)

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

**S5-196125 Rel-16 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0114 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196677**.

**S5-196677 Rel-16 32.255 Correction of Unit Count Inactivity Timer**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0114 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196125)

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

**S5-196126 Rel-16 32.298 Correction of ASN.1 NetworkFunctionName**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0757 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196127 Rel-16 32.298 Correction of ASN.1 AMFID**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0758 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196128 Rel-16 32.298 Correction of ASN.1 userLocationInformation**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0759 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196733**.

**S5-196733 Rel-16 32.298 Correction of ASN.1 userLocationInformation**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0759 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196128)

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

**S5-196129 Rel-16 CR 32.291 Correction of subscriberIdentifier**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0151 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196130 Rel-16 CR 32.291 Correction on OpenAPI for usedunitcontainer**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0152 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196689**.

**S5-196689 Rel-16 CR 32.291 Correction on OpenAPI for usedunitcontainer**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0152 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196130)

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

**S5-196144 Rel-16 CR 32.255 Add clarifications to lifetime of offline only charging**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0119 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-196146 Discussion on offline only charging service for event based charging**

*Type: discussion For: Endorsement  
 Source: Huawei*

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

**S5-196147 Rel-16 CR 32.290 Add event based charging for offline only charging service**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0120 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-196148 Rel-16 CR 32.255 Correction of Interworking flow**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0121 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196690**.

**S5-196690 Rel-16 CR 32.255 Correction of Interworking flow**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0121 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196148)

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

**S5-196149 Rel-16 CR 32.290 Add clarifications to failure handling**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0084 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196682**.

**S5-196682 Rel-16 CR 32.290 Add clarifications to failure handling**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0084 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196149)

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

**S5-196150 Rel-15 CR 32.290 Add clarifications to failure handling**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0085 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196681**.

**S5-196681 Rel-15 CR 32.290 Add clarifications to failure handling**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0085 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-196150)

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

**S5-196254 Rel-15 CR 32.274 Addition of Post Event Charging flows**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0067 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196683**.

**S5-196683 Rel-15 CR 32.274 Addition of Post Event Charging flows**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0067 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196254)

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

**S5-196255 Rel-15 CR 32.274 Correction of message content for Post Event Charging**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0068 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196256 Rel-15 CR 32.274 Correction of Service Specification Information**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0069 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196257 Rel-16 CR 32.291 Add Retransmission IE for alignment with TS 32.290**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0154 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196691**.

**S5-196691 Rel-16 CR 32.291 Add Retransmission IE for alignment with TS 32.290**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0154 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196257)

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

**S5-196258 Rel-15 CR 32.274 Clarify CHF selection via NRF and roaming**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0070 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196684**.

**S5-196684 Rel-15 CR 32.274 Clarify CHF selection via NRF and roaming**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0070 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196258)

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

**S5-196259 Rel-15 CR 32.274 Correction of Multiple Unit Information**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0071 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196685**.

**S5-196685 Rel-15 CR 32.274 Correction of Multiple Unit Information**

*Type: CR For: Agreement  
 32.274 v15.2.0 CR-0071 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196259)

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

**S5-196260 Rel-15 CR 32.291 Correction InvocationResult description and binding**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0155 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196686**.

**S5-196686 Rel-15 CR 32.291 Correction InvocationResult description and binding**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0155 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196260)

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

**S5-196261 Rel-16 CR 32.291 Correction InvocationResult description and binding**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0156 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196687**.

**S5-196687 Rel-16 CR 32.291 Correction InvocationResult description and binding**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0156 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196261)

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

**S5-196368 Rel-16 CR 32.290 Explanation of when Units Usage must be reported**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0086 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196693**.

**S5-196693 Rel-16 CR 32.290 Explanation of when Units Usage must be reported**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0086 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196368)

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

**S5-196369 Rel-16 CR 32.290 Explanation of Units Usage in Initial**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0087 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196694**.

**S5-196694 Rel-16 CR 32.290 Explanation of Units Usage in Initial**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0087 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196369)

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

**S5-196370 Rel-16 CR 32.298 Correction of Multiple Unit Usage**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0760 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-196371 Rel-16 CR 32.255 Correction of Container definition**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0122 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-196372 Rel-16 CR 32.290 Wrong name on CR**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0088 Cat: D (Rel-16)  
  
 Source: Ericsson*

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

**S5-196373 Rel-16 CR 32.255 Correction of QoS Based Charging description**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0123 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196695**.

**S5-196695 Rel-16 CR 32.255 Correction of QoS Based Charging description**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0123 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196373)

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

**S5-196374 Rel-16 CR 32.255 Definition of Emergency Session handling**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0124 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196714**.

**S5-196714 Rel-16 CR 32.255 Definition of Emergency Session handling**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0124 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196374)

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

**S5-196375 Rel-16 CR 32.255 Correction of Charging Identifier**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0125 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-196377 Rel-16 CR 32.255 Missing default trigger for Offline**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0126 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196715**.

**S5-196715 Rel-16 CR 32.255 Missing default trigger for Offline only**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0126 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196377)

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

**S5-196378 Rel-16 CR 32.298 Correction of ServingNetworkFunctionID**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0761 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196678**.

**S5-196678 Rel-15 CR 32.298 Correction of Correction of Network Function ID**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0761 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196378)

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

**S5-196379 Rel-16 CR 32.291 Correction of yaml**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0157 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196716**.

**S5-196716 Rel-16 CR 32.291 Correction of yaml**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0157 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196379)

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

**S5-196380 Rel-16 CR 32.290 Definition of State Machine**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0089 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-196381 Rel-16 CR 32.290 Correction of redirect at termination**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0090 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-196382 Rel-16 CR 32.290 Correction of Converged Charging principles**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0091 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196717**.

**S5-196717 Rel-16 CR 32.290 Correction of Converged Charging principles**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0091 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196382)

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

**S5-196383 Rel-16 CR 32.291 Correction of pDUSessionChargingInformation**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0158 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196718**.

**S5-196718 Rel-16 CR 32.291 Correction of pDUSessionChargingInformation**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0158 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196383)

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

**S5-196415 Rel-16 CR 32.298 Correction of missing otherQutaType in sMFTrigger**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0762 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196719**.

**S5-196719 Rel-16 CR 32.298 Correction of missing otherQutaType in sMFTrigger**

*Type: CR For: Agreement  
 32.298 v16.2.0 CR-0762 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196415)

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

**S5-196524 Rel-16 CR 32.291 Add nssai query parameter**

*Type: CR For: Approval  
 32.291 v16.1.1 CR-0160 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

**Abstract:**

Adding nssai as a query parameter to allow guiding to NS resource without JSON parsing.

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

**S5-196526 Rel-15 CR 32.291 Correction of nfIdentification in yaml**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0161 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196721**.

**S5-196721 Rel-15 CR 32.291 Correction of nfIdentification in yaml**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0161 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-196526)

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

**S5-196534 Rel-15 CR 32.291 Alignement with TS 29.501 template**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0162 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196722**.

**S5-196722 Rel-15 CR 32.291 Alignement with TS 29.501 template**

*Type: CR For: Agreement  
 32.291 v15.4.0 CR-0162 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196534)

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

**S5-196535 Rel-16 CR 32.291 Alignement with TS 29.501 template**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0163 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196723**.

**S5-196723 Rel-16 CR 32.291 Alignement with TS 29.501 template**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0163 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196535)

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

**S5-196632 Rel-15 CR 32.290 Correction of ChargingNotifyResponse description**

*Type: CR For: Agreement  
 32.290 v15.5.1 CR-0092 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-196633 Rel-16 CR 32.290 Correction of ChargingNotifyResponse description**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0093 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-196679 Rel-15 CR 32.298 Correction of Correction of Network Function ID**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0763 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-196692 Rel-16 CR 32.290 Clarify Retransmission IE**

*Type: CR For: Agreement  
 32.290 v16.2.1 CR-0094 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196720 Correction of missing otherQutaType in sMFTrigger**

*Type: CR For: Agreement  
 32.298 v15.8.0 CR-0764 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-196766 (reserved)**

*Type: other For: discussion  
 Source: Charging SWG*

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

**S5-196767 (reserved)**

*Type: other For: discussion  
 Source: Charging SWG*

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

**S5-196768 (reserved)**

*Type: other For: discussion  
 Source: Charging SWG*

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

### 7.4 Rel-16 Charging

#### 7.4.1 Volume Based Charging Aspects for VoLTE

#### 7.4.2 Network Exposure Charging in 5G System Architecture

**S5-196384 Rel-16 CR 32.291 Adding Exposure Function Northbound API Specified Data Type**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0159 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196545**.

**S5-196545 Rel-16 CR 32.291 Adding Exposure Function Northbound API Specified Data Type**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0159 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196384)

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

#### 7.4.3 Charging AMF in 5G System Architecture Phase 1

**S5-196246 Rel-16 pCR 32.256 Update triggers description**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196557**.

**S5-196557 Rel-16 pCR 32.256 Update triggers description**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196246)

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

**S5-196247 Rel-16 pCR 32.256 Solve Editor's Note for UE Presence in Presence Reporting Area (PRA)**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196558**.

**S5-196558 Rel-16 pCR 32.256 Solve Editor's Note for UE Presence in Presence Reporting Area (PRA)**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196247)

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

**S5-196248 Rel-16 pCR 32.256 Introduce CDRs generation for ECUR**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196249 Rel-16 pCR 32.256 Introduce Roaming**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196559**.

**S5-196559 Rel-16 pCR 32.256 Introduce Roaming**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196249)

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

**S5-196250 Rel-16 pCR 32.256 Update message content**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196560**.

**S5-196560 Rel-16 pCR 32.256 Update message content**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196250)

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

**S5-196251 Rel-16 pCR 32.256 Add Detailed message format**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196561**.

**S5-196561 Rel-16 pCR 32.256 Add Detailed message format**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196251)

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

**S5-196252 Rel-16 pCR 32.256 Introduce CHF CDR description for AMF**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-196562**.

**S5-196562 Rel-16 pCR 32.256 Introduce CHF CDR description for AMF**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-196252)

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

**S5-196253 Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging**

*Type: CR For: Agreement  
 32.291 v16.1.1 CR-0153 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196530 Rel-16 pCR 32.256 Corrections from EditHelp**

*Type: pCR For: Approval  
 32.256 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-196563 Draft TS 32.256**

*Type: draft TS For: Approval  
 32.256 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 7.4.4 IMS Charging in 5G System Architecture

**S5-196138 Rel-16 CR 32.260 IMS Charging architecture introduction**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0400 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196546**.

**S5-196546 Rel-16 CR 32.260 IMS Charging architecture introduction**

*Type: CR For: Agreement  
 32.260 v16.1.0 CR-0400 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196138)

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

**S5-196385 Rel-16 CR 32.275 Addition of convergent flows**

*Type: CR For: Agreement  
 32.275 v16.0.0 CR-0073 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196547**.

**S5-196547 Rel-16 CR 32.275 Addition of convergent flows**

*Type: CR For: Agreement  
 32.275 v16.0.0 CR-0073 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196385)

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

**S5-196386 Rel-16 CR 32.281 Addition of convergent flows**

*Type: CR For: Agreement  
 32.281 v16.0.0 CR-0007 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196548**.

**S5-196548 Rel-16 CR 32.281 Addition of convergent flows**

*Type: CR For: Agreement  
 32.281 v16.0.0 CR-0007 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196386)

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

#### 7.4.5 Charging aspects of Enhancing Topology of SMF and UPF in 5G Networks

**S5-196139 Rel-16 CR 32.255 Add charging requirement for I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0115 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196724**.

**S5-196724 Rel-16 CR 32.255 Add charging requirement for I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0115 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196139)

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

**S5-196140 Rel-16 CR 32.255 Add charging principle for I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0116 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196725**.

**S5-196725 Rel-16 CR 32.255 Add charging principle for I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0116 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196140)

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

**S5-196141 Rel-16 CR 32.255 Add charging trigger conditions for I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0117 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196726**.

**S5-196726 Rel-16 CR 32.255 Add charging trigger conditions for I-SMF**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0117 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196141)

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

**S5-196142 Rel-16 CR 32.255 Add I-SMF PDU session charging information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0118 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-196727**.

**S5-196727 Rel-16 CR 32.255 Add I-SMF PDU session charging information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0118 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-196142)

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

**S5-196427 Rel-16 CR 32.255 Adding ETSUN architecture with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0127 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-196429 Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging requirements**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0128 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-196431 Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0129 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196728**.

**S5-196728 Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging information**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0129 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196431)

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

**S5-196432 Rel-16 CR 32.255 Adding I-SMF in applicable triggers for FBC**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0130 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-196491 Rel-16 CR 32.255 Adding I-SMF in applicable triggers for QBC**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0131 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-196493 Rel-16 CR 32.255 Adding I-SMF in PDU Session Charging message flow**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0132 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196729**.

**S5-196729 Rel-16 CR 32.255 Adding I-SMF in PDU Session Charging message flow**

*Type: CR For: Agreement  
 32.255 v16.2.0 CR-0132 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-196493)

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

#### 7.4.6 Network Slice Performance and Analytics Charging in 5G System

**S5-196135 Rel-16 pCR TS 28.201 Update of the Skeleton**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196554**.

**S5-196554 Rel-16 pCR TS 28.201 Update of the Skeleton**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Huawei*

(Replaces S5-196135)

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

**S5-196136 Rel-16 pCR TS 28.201 Scope**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196555**.

**S5-196555 Rel-16 pCR TS 28.201 Scope**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Huawei*

(Replaces S5-196136)

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

**S5-196137 Rel-16 pCR TS 28.201 Add the terms**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Huawei*

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

**S5-196166 Discussion paper on charging aspect for network slicing**

*Type: discussion For: Endorsement  
 Source: Huawei Telecommunication India*

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

**S5-196387 Rel-16 pCR 28.201 Architecture considerations**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-196556**.

**S5-196556 Rel-16 pCR 28.201 Architecture considerations**

*Type: pCR For: Agreement  
 28.201 v0.0.0  
 Source: Ericsson*

(Replaces S5-196387)

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

**S5-196564 Draft TS 28.201**

*Type: draft TS For: Approval  
 28.201 v0.1.0  
 Source: Huawei*

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

#### 7.4.7 Network Slice Management Charging in 5G System

**S5-196145 Discussion paper on charging aspect related to network slice management**

*Type: discussion For: Endorsement  
 Source: Huawei*

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

**S5-196388 Rel-16 pCR 28.202 Architecture considerations**

*Type: pCR For: Agreement  
 28.202 v0.0.0  
 Source: Ericsson*

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

### 7.5 Charging Studies

#### 7.5.1 Study on Charging Aspects of Network Slicing

**S5-196131 Rel-16 pCR TR 32.845 Conclusion on Business to Consumer**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196549**.

**S5-196549 Rel-16 pCR TR 32.845 Conclusion on Business to Consumer**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

(Replaces S5-196131)

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

**S5-196132 Rel-16 pCR TR 32.845 Conclusion on event based charging**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196550**.

**S5-196550 Rel-16 pCR TR 32.845 Conclusion on event based charging**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

(Replaces S5-196132)

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

**S5-196133 Rel-16 pCR TR 32.845 Conclusion on solution 1.6**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196551**.

**S5-196551 Rel-16 pCR TR 32.845 Conclusion on solution 1.6**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

(Replaces S5-196133)

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

**S5-196134 Rel-16 pCR TR 32.845 Relocate the conclusion of topic 1**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196552**.

**S5-196552 Rel-16 pCR TR 32.845 Relocate the conclusion of topic 1**

*Type: pCR For: Agreement  
 32.845 v1.0.0  
 Source: Huawei,Openet*

(Replaces S5-196134)

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

**S5-196143 Rel-16 pCR TR 32.845 Add content analysis on network slice charging**

*Type: pCR For: Approval  
 32.845 v1.0.0  
 Source: Huawei*

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

**S5-196161 Rel-16 pCR TR 32.845 Correction on the editorial Comments**

*Type: pCR For: (not specified)  
 32.845 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-196553**.

**S5-196553 Rel-16 pCR TR 32.845 Correction on the editorial Comments**

*Type: pCR For: -  
 32.845 v1.0.0  
 Source: Huawei*

(Replaces S5-196161)

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

**S5-196450 Rel-16 pCR TR 32.845 Conclusion on key issue 1.3 for topic 1**

*Type: pCR For: Approval  
 32.845 v1.0.0  
 Source: Openet Telecom*

**Abstract:**

A pCR to introduce a conclusion for key issue 1.3 for topic 1 business to business - network slice usage.

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

**S5-196688 Draft TR 32.845**

*Type: draft TR For: Approval  
 32.845 v1.1.0  
 Source: Huawei*

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

## 8 Any Other Business

## 9 Closing of the meeting

The vice chair (Zou Lan) thanked the delegates for the hard work due to the high workload during the week.

After this the meeting was closed.

## Annex A: List of contribution documents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-196000 | Agenda | WG Chairman | approved |  |  |
| S5-196001 | IPR and legal declaration | WG Chairman | revised |  | S5-196541 |
| S5-196002 | Report from last SA5 meeting | MCC | approved |  |  |
| S5-196003 | Leaders meeting agenda | WG Chairman | noted |  |  |
| S5-196004 | Leaders meeting minutes | WG Chairman | noted |  |  |
| S5-196005 | SA5 Working Procedures | WG Chair | noted |  |  |
| S5-196006 | SA5 Meeting Facility Requirements | WG Vice Chair (Nokia) | withdrawn |  |  |
| S5-196007 | Process for management of draft TSs/TRs | WG Chairman | noted |  |  |
| S5-196008 | CR Quality Check | MCC | noted |  |  |
| S5-196009 | Status of email approvals | WG Chairman | available |  |  |
| S5-196010 | SA5 Meeting Calendar | WG Chairman | noted |  |  |
| S5-196011 | 3GPP SA5 Work Plan | MCC | noted |  |  |
| S5-196012 | Time Plan for OAM&P | WG Chair | noted |  |  |
| S5-196013 | OAM Executive Report | WG Vice Chair (Huawei) | noted |  |  |
| S5-196014 | OAM&P action list | WG Vice Chair (Huawei) | noted |  |  |
| S5-196015 | SA5 status report at last SA meeting | WG Chairman | noted |  |  |
| S5-196016 | SA5 results at last SA meeting | WG Chairman | noted |  |  |
| S5-196017 | Minutes of OAM&P opening session | MCC | withdrawn |  |  |
| S5-196018 | Minutes of New Work Item proposals - OAM&P | MCC | withdrawn |  |  |
| S5-196019 | Minutes of OAM&P Maintenance and Rel-16 small Enhancements | MCC | withdrawn |  |  |
| S5-196020 | Minutes of Management of QoE measurement collection | Rapporteur (Ericsson) | noted |  |  |
| S5-196021 | Minutes of Energy effciency of 5G | Rapporteur (ORANGE) | noted |  |  |
| S5-196022 | Minutes of Network policy management for mobile networks based on NFV scenarios | Rapporteur (China Mobile) | noted |  |  |
| S5-196023 | Minutes of Intent driven management service for mobile networks | Rapporteur (Huawei) | noted |  |  |
| S5-196024 | Minutes of Enhancement of performance assurance for 5G networks including network slicing | Rapporteur (Intel) | noted |  |  |
| S5-196025 | Minutes of Discovery of management services in 5G | Rapporteur (Huawei) | noted |  |  |
| S5-196026 | Minutes of NRM enhancements | Rapporteur (Nokia) | noted |  |  |
| S5-196027 | Minutes of Trace Management in the context of Services Based Management Architecture | Rapporteur (Nokia) | withdrawn |  |  |
| S5-196028 | Minutes of Integration of ONAP and 3GPP 5G management framework | Rapporteur (AT&T)) | noted |  |  |
| S5-196029 | Minutes of Closed loop SLS Assurance | Rapporteur (Ericsson) | revised |  | S5-196844 |
| S5-196030 | Minutes of Streaming trace reporting | Rapporteur (Nokia) | noted |  |  |
| S5-196031 | Minutes of KPI reporting | Rapporteur (ZTE) | noted |  |  |
| S5-196032 | Minutes of Self-Organizing Networks (SON) for 5G networks | Rapporteur (Intel) | noted |  |  |
| S5-196033 | Minutes of Enhancement of 3GPP management system for multiple tenant environment support | Rapporteur (Huawei) | noted |  |  |
| S5-196034 | Minutes of Management Aspects of 5G Service-Level Agreement | Rapporteur (China Mobile) | withdrawn |  |  |
| S5-196035 | Minutes of Study on protocol enhancement for real time communication | Rapporteur(Nokia) | withdrawn |  |  |
| S5-196036 | Minutes of Study on Self-Organizing Networks (SON) for 5G | Rapporteur (Intel) | noted |  |  |
| S5-196037 | Minutes of Study on non-public networks management | Rapporteur (Huawei) | noted |  |  |
| S5-196038 | Minutes of Study on management and orchestration aspects with integrated satellite components in a 5G network | Rapporteur (Thales) | noted |  |  |
| S5-196039 | Minutes of Study on enhancement of Management Data Analytics Service | Rapporteur (Intel) | withdrawn |  |  |
| S5-196040 | Minutes of Study on autonomous network levels | Rapporteur (China Mobile) | noted |  |  |
| S5-196041 | CH Agenda and Time Plan | CH SWG Chair | approved |  |  |
| S5-196042 | CH Executive Report | CH SWG Chair | noted |  |  |
| S5-196043 | Double S1/NG discussion in relation to retainability | Nokia Solutions & Networks (I) | revised |  | S5-196605 |
| S5-196044 | Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30 | Nokia Solutions & Networks (I) | revised |  | S5-196606 |
| S5-196045 | Add new measurements related to QoS Flow Setup via Initial Context Setup | Nokia Solutions & Networks (I) | revised |  | S5-196607 |
| S5-196046 | Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2 | Nokia Solutions & Networks (I) | revised |  | S5-196608 |
| S5-196047 | Add new Use case related to extended 5QI 1 QoS Flow Retainability monitoring into A30 | Nokia Solutions & Networks (I) | revised |  | S5-196609 |
| S5-196048 | Rel-16 CR 28.532 RESTful CM notifications for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | revised |  | S5-196822 |
| S5-196049 | Rel-16 CR 28.532 RESTful PM file-based notifications for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | not pursued |  |  |
| S5-196050 | Shadow TS for Heartbeat Stage 1 | AT&T, Deutsche Telekom, Orange | revised |  | S5-196706 |
| S5-196051 | Rel-16 CR 28.532 Heartbeat MnS | AT&T, Deutsche Telekom, Orange | merged |  | S5-196789 |
| S5-196052 | Rel-16 CR 28.622 Configurable Heartbeat NRM fragment | AT&T, Deutsche Telekom, Orange | merged |  | S5-196789 |
| S5-196053 | pCR TS 28.310 Edithelp comments | Orange | approved |  |  |
| S5-196054 | LS to RAN3 on energy efficiency of 5G | Orange | revised |  | S5-196771 |
| S5-196055 | Management and orchestration; Management Services for Communication Service Assurance; Requirements | Ericsson India Private Limited | approved |  |  |
| S5-196056 | Management and orchestration; Management Services for Communication Service Assurance; Stage 2 and stage 3 | Ericsson India Private Limited | approved |  |  |
| S5-196057 | New WID Charging Access Traffic Steering, Switching and Splitting in 5G system architecture | Nokia, Nokia Shanghai Bell | revised |  | S5-196542 |
| S5-196058 | Rel-15 CR 32.255 Add the Service Specification information | Huawei | agreed |  |  |
| S5-196059 | Rel-15 CR 32.291 Add the Service Specification information | Huawei | revised |  | S5-196565 |
| S5-196060 | Rel-15 CR 32.298 Add the Service Specification information | Huawei | revised |  | S5-196567 |
| S5-196061 | Discussion paper on 5G QoS support | Huawei | noted |  |  |
| S5-196062 | Rel-15 CR 32.255 Add the QoS Characteristics | Huawei | not pursued |  |  |
| S5-196063 | Rel-15 CR 32.291 Add the QoS Characteristics | Huawei | not pursued |  |  |
| S5-196064 | Rel-15 CR 32.255 Add the QNC support | Huawei | revised |  | S5-196569 |
| S5-196065 | Rel-15 CR 32.291 Add the QNC support | Huawei | revised |  | S5-196571 |
| S5-196066 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | revised |  | S5-196622 |
| S5-196067 | Rel-15 CR 32.298 Add the selection model in PDU session information | Huawei | withdrawn |  |  |
| S5-196068 | Rel-15 CR 32.255 correction of PCC rules description | Huawei | revised |  | S5-196624 |
| S5-196069 | Rel-15 CR 32.255 Correction of UPF ID in CHF CDR data | Huawei | agreed |  |  |
| S5-196070 | Rel-15 CR 32.290 Correction of notify response | Huawei | revised |  | S5-196626 |
| S5-196071 | Rel-15 CR 32.291 Correction of notify response | Huawei | revised |  | S5-196628 |
| S5-196072 | Rel-15 CR 32.291 Correction of ChargingDataResponse description | Huawei | revised |  | S5-196630 |
| S5-196073 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | revised |  | S5-196634 |
| S5-196074 | Rel-15 CR 32.255 Correction of reportTime | Huawei | revised |  | S5-196636 |
| S5-196075 | Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | revised |  | S5-196637 |
| S5-196076 | Rel-15 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR | Huawei | not pursued |  |  |
| S5-196077 | Rel-15 CR 32.255 Add the sponsor based charging | Huawei | revised |  | S5-196639 |
| S5-196078 | Rel-15 32.255 Correction of Unit Count Inactivity Timer | Huawei | revised |  | S5-196676 |
| S5-196079 | Rel-15 32.298 Correction of ASN.1 NetworkFunctionName | Huawei | agreed |  |  |
| S5-196080 | Rel-15 CR 32.255 Add the Service Specification information | Huawei | withdrawn |  |  |
| S5-196081 | Rel-15 CR 32.291 Add the Service Specification information | Huawei | withdrawn |  |  |
| S5-196082 | Rel-15 CR 32.298 Add the Service Specification information | Huawei | withdrawn |  |  |
| S5-196083 | Discussion paper on 5G QoS support | Huawei | withdrawn |  |  |
| S5-196084 | Rel-15 CR 32.255 Add the QoS Characteristics | Huawei | withdrawn |  |  |
| S5-196085 | Rel-15 CR 32.291 Add the QoS Characteristics | Huawei | withdrawn |  |  |
| S5-196086 | Rel-15 CR 32.255 Add the QNC support | Huawei | withdrawn |  |  |
| S5-196087 | Rel-15 CR 32.291 Add the QNC support | Huawei | withdrawn |  |  |
| S5-196088 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | withdrawn |  |  |
| S5-196089 | Rel-15 CR 32.298 Add the selection model in PDU session information | Huawei | withdrawn |  |  |
| S5-196090 | Rel-15 CR 32.255 correction of PCC rules description | Huawei | withdrawn |  |  |
| S5-196091 | Rel-15 CR 32.255 Correction of UPF ID in CHF CDR data | Huawei | withdrawn |  |  |
| S5-196092 | Rel-15 CR 32.290 Correction of notify response | Huawei | withdrawn |  |  |
| S5-196093 | Rel-15 CR 32.291 Correction of notify response | Huawei | withdrawn |  |  |
| S5-196094 | Rel-15 CR 32.291 Correction of ChargingDataResponse description | Huawei | withdrawn |  |  |
| S5-196095 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | withdrawn |  |  |
| S5-196096 | Rel-15 CR 32.255 Correction of reportTime | Huawei | withdrawn |  |  |
| S5-196097 | Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | withdrawn |  |  |
| S5-196098 | Rel-15 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR | Huawei | withdrawn |  |  |
| S5-196099 | Rel-15 CR 32.255 Add the sponsor based charging | Huawei | withdrawn |  |  |
| S5-196100 | Rel-15 32.255 Correction of Unit Count Inactivity Timer | Huawei | withdrawn |  |  |
| S5-196101 | Rel-15 32.298 Correction of ASN.1 NetworkFunctionName | Huawei | withdrawn |  |  |
| S5-196102 | Rel-15 32.298 Correction of ASN.1 AMFID | Huawei | revised |  | S5-196680 |
| S5-196103 | Rel-15 32.298 Correction of ASN.1 userLocationInformation | Huawei | revised |  | S5-196732 |
| S5-196104 | Rel-15 CR 32.291 Correction of subscriberIdentifier | Huawei | agreed |  |  |
| S5-196105 | Rel-15 CR 32.291 Correction on OpenAPI for usedunitcontainer | Huawei | withdrawn |  |  |
| S5-196106 | Rel-16 CR 32.255 Add the Service Specification information | Huawei | agreed |  |  |
| S5-196107 | Rel-16 CR 32.291 Add the Service Specification information | Huawei | revised |  | S5-196566 |
| S5-196108 | Rel-16 CR 32.298 Add the Service Specification information | Huawei | revised |  | S5-196568 |
| S5-196109 | Rel-16 CR 32.255 Add the QoS Characteristics | Huawei | revised |  | S5-196730 |
| S5-196110 | Rel-16 CR 32.291 Add the QoS Characteristics | Huawei | revised |  | S5-196731 |
| S5-196111 | Rel-16 CR 32.255 Add the QNC support | Huawei | revised |  | S5-196570 |
| S5-196112 | Rel-15 CR 32.291 Add the QNC support | Huawei | revised |  | S5-196621 |
| S5-196113 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | revised |  | S5-196623 |
| S5-196114 | Rel-16 CR 32.298 Add the selection model in PDU session information | Huawei | withdrawn |  |  |
| S5-196115 | Rel-16 CR 32.255 correction of PCC rules description | Huawei | revised |  | S5-196625 |
| S5-196116 | Rel-16 CR 32.255 Correction of UPF ID in CHF CDR data | Huawei | agreed |  |  |
| S5-196117 | Rel-16 CR 32.290 Correction of notify response | Huawei | revised |  | S5-196627 |
| S5-196118 | Rel-16 CR 32.291 Correction of notify response | Huawei | revised |  | S5-196629 |
| S5-196119 | Rel-16 CR 32.291 Correction of ChargingDataResponse description | Huawei | revised |  | S5-196631 |
| S5-196120 | Rel-16 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | revised |  | S5-196635 |
| S5-196121 | Rel-16 CR 32.255 Correction of reportTime | Huawei | not pursued |  |  |
| S5-196122 | Rel-16 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | revised |  | S5-196638 |
| S5-196123 | Rel-16 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR | Huawei | not pursued |  |  |
| S5-196124 | Rel-16 CR 32.255 Add the sponsor based charging | Huawei | revised |  | S5-196640 |
| S5-196125 | Rel-16 32.255 Correction of Unit Count Inactivity Timer | Huawei | revised |  | S5-196677 |
| S5-196126 | Rel-16 32.298 Correction of ASN.1 NetworkFunctionName | Huawei | agreed |  | - |
| S5-196127 | Rel-16 32.298 Correction of ASN.1 AMFID | Huawei | agreed |  |  |
| S5-196128 | Rel-16 32.298 Correction of ASN.1 userLocationInformation | Huawei | revised |  | S5-196733 |
| S5-196129 | Rel-16 CR 32.291 Correction of subscriberIdentifier | Huawei | agreed |  |  |
| S5-196130 | Rel-16 CR 32.291 Correction on OpenAPI for usedunitcontainer | Huawei | revised |  | S5-196689 |
| S5-196131 | Rel-16 pCR TR 32.845 Conclusion on Business to Consumer | Huawei | revised |  | S5-196549 |
| S5-196132 | Rel-16 pCR TR 32.845 Conclusion on event based charging | Huawei | revised |  | S5-196550 |
| S5-196133 | Rel-16 pCR TR 32.845 Conclusion on solution 1.6 | Huawei | revised |  | S5-196551 |
| S5-196134 | Rel-16 pCR TR 32.845 Relocate the conclusion of topic 1 | Huawei | revised |  | S5-196552 |
| S5-196135 | Rel-16 pCR TS 28.201 Update of the Skeleton | Huawei | revised |  | S5-196554 |
| S5-196136 | Rel-16 pCR TS 28.201 Scope | Huawei | revised |  | S5-196555 |
| S5-196137 | Rel-16 pCR TS 28.201 Add the terms | Huawei | approved |  |  |
| S5-196138 | Rel-16 CR 32.260 IMS Charging architecture introduction | Huawei | revised |  | S5-196546 |
| S5-196139 | Rel-16 CR 32.255 Add charging requirement for I-SMF | Huawei | revised |  | S5-196724 |
| S5-196140 | Rel-16 CR 32.255 Add charging principle for I-SMF | Huawei | revised |  | S5-196725 |
| S5-196141 | Rel-16 CR 32.255 Add charging trigger conditions for I-SMF | Huawei | revised |  | S5-196726 |
| S5-196142 | Rel-16 CR 32.255 Add I-SMF PDU session charging information | Huawei | revised |  | S5-196727 |
| S5-196143 | Rel-16 pCR TR 32.845 Add content analysis on network slice charging | Huawei | noted |  |  |
| S5-196144 | Rel-16 CR 32.255 Add clarifications to lifetime of offline only charging | Huawei | not pursued |  |  |
| S5-196145 | Discussion paper on charging aspect related to network slice management | Huawei | noted |  |  |
| S5-196146 | Discussion on offline only charging service for event based charging | Huawei | noted |  |  |
| S5-196147 | Rel-16 CR 32.290 Add event based charging for offline only charging service | Huawei | not pursued |  |  |
| S5-196148 | Rel-16 CR 32.255 Correction of Interworking flow | Huawei | revised |  | S5-196690 |
| S5-196149 | Rel-16 CR 32.290 Add clarifications to failure handling | Huawei | revised |  | S5-196682 |
| S5-196150 | Rel-15 CR 32.290 Add clarifications to failure handling | Huawei | revised |  | S5-196681 |
| S5-196151 | Rel-15 CR TS 28.552 Correction of Registered subscribers measurement for AMF | China Mobile Com. Corporation | agreed |  |  |
| S5-196152 | Rel-16 CR TS 28.552 Correction of Registered subscribers measurement for AMF | China Mobile Com. Corporation | agreed |  |  |
| S5-196153 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc.,Huawei | revised | S5-193420 | S5-196587 |
| S5-196154 | Correct Import table | Ericsson Inc. | revised | S5-195543 | S5-196602 |
| S5-196155 | Correct NR TAC attribute property | Ericsson LM | not treated |  |  |
| S5-196156 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | revised |  | S5-196588 |
| S5-196157 | Correct conditional mandatory qualifications for SectorEquipmentFunction | Ericsson Inc. | not pursued | S5-195545 |  |
| S5-196158 | Correct use of ProxyCellList | Ericsson LM | withdrawn |  |  |
| S5-196159 | Correct use of ProxyCellList | Ericsson LM | revised |  | S5-196596 |
| S5-196160 | Correct Import table | Ericsson Inc. | revised | S5-195544 | S5-196603 |
| S5-196161 | Rel-16 pCR TR 32.845 Correction on the editorial Comments | Huawei | revised |  | S5-196553 |
| S5-196162 | Rel-15 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | not pursued |  |  |
| S5-196163 | Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | revised |  | S5-196585 |
| S5-196164 | Rel-15 CR TS 28.552 Add Unregistered subscribers measurements for UDM | China Mobile Com. Corporation | not pursued |  |  |
| S5-196165 | Rel-16 CR TS 28.552 Add Unregistered subscribers measurements for UDM | China Mobile Com. Corporation | revised |  | S5-196586 |
| S5-196166 | Discussion paper on charging aspect for network slicing | Huawei Telecommunication India | noted |  |  |
| S5-196167 | NWI on Charging for 5WWC | Huawei Telecommunication India | revised |  | S5-196543 |
| S5-196168 | SA5 Summary of OAM WIs/SIs and Work Plan | WG Vice Chair (Huawei) | revised |  | S5-196579 |
| S5-196169 | Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | Huawei | revised |  | S5-196793 |
| S5-196170 | pCR TS 28.406 Add introduction | Nanjing Ericsson Panda Com Ltd | approved |  |  |
| S5-196171 | pCR TS 28.406 Add scope and reference | Nanjing Ericsson Panda Com Ltd | approved |  |  |
| S5-196172 | Overview of the 5G specification structure | HUAWEI TECHNOLOGIES Co. Ltd. | noted |  |  |
| S5-196173 | Draft LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196572 |
| S5-196174 | TS 28.312\_000 | HUAWEI TECHNOLOGIES Co. Ltd. | approved |  |  |
| S5-196175 | pCR 28.861 remove duplicated clause in Multi-aspect / multi-domain resource optimization use case | Nokia | not treated |  |  |
| S5-196176 | Allow for service-centric load redistribution to concurrently optimize load distribution and service performance | Nokia | revised |  | S5-196818 |
| S5-196177 | Extend the usecase to allow for PCI optimization in multi-layer scenarios | Nokia | revised |  | S5-196820 |
| S5-196178 | Update cell neighbour relationship indication | Nokia | not treated |  |  |
| S5-196179 | Update use case on Automatic Cell Clustering for Energy Management | Nokia | withdrawn |  |  |
| S5-196180 | Update ANR optimization use case to allow for use of deployment data | Nokia | not treated |  |  |
| S5-196181 | Update SON coordination use case | Nokia | not treated |  |  |
| S5-196182 | Add requirement for NR indication to ANR optimization usecase | Nokia | not treated |  |  |
| S5-196183 | Add requirements for supporting Multi-layer deployment scenarios to PCI Configuration use case | Nokia | not treated |  |  |
| S5-196184 | Update requirements for Load Balancing Optimization to allow for service centric resource optimization | Nokia | revised |  | S5-196846 |
| S5-196185 | Update Intra-RAT energy saving scenario with distributed decision-making | Nokia | revised |  | S5-196646 |
| S5-196186 | Add Rollback operation to intent Lifecycle management | Nokia | revised |  | S5-196650 |
| S5-196187 | Extensions to PCF and UPF IOCs for support of TSC (Time Sensitive Communication) | Nokia | revised |  | S5-196699 |
| S5-196188 | Rel-15 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | revised |  | S5-196787 |
| S5-196189 | Rel-16 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | revised |  | S5-196788 |
| S5-196190 | pCR 28.861 cleanup | Intel Corporation (UK) Ltd | not treated |  |  |
| S5-196191 | pCR 28.310 solution for energy saving | Intel Corporation (UK) Ltd | revised |  | S5-196769 |
| S5-196192 | draft TS 28313-000 | Intel Corporation (UK) Ltd | revised |  | S5-196671 |
| S5-196193 | dtaft TS 28544-000 | Intel Corporation (UK) Ltd | noted |  | - |
| S5-196194 | pCR 28.313 skeleton | Intel Corporation (UK) Ltd | revised |  | S5-196672 |
| S5-196195 | pCR 28.544 skeleton | Intel Corporation (UK) Ltd | noted |  |  |
| S5-196196 | pCR 28.313 introduction and scope | Intel Corporation (UK) Ltd | revised |  | S5-196674 |
| S5-196197 | pCR 28.544 introduction and scope | Intel Corporation (UK) Ltd | noted |  |  |
| S5-196198 | pCR 28.313 concepts | Intel Corporation (UK) Ltd | revised |  | S5-196675 |
| S5-196199 | pCR 28.313 RACH optimization use case | Intel Corporation (UK) Ltd | revised |  | S5-196696 |
| S5-196200 | pCR 28.313 RACH optimization use case | Intel Corporation (UK) Ltd | withdrawn |  |  |
| S5-196201 | pCR 28.313 RACH optimization procedure | Intel Corporation (UK) Ltd | revised |  | S5-196697 |
| S5-196202 | pCR 28.313 RACH optimization information | Intel Corporation (UK) Ltd | revised |  | S5-196698 |
| S5-196203 | pCR 28.313 MRO use case | Intel Corporation (UK) Ltd | revised |  | S5-196746 |
| S5-196204 | pCR 28.313 MRO procedure | Intel Corporation (UK) Ltd | revised |  | S5-196747 |
| S5-196205 | pCR 28.313 MRO information | Intel Corporation (UK) Ltd | revised |  | S5-196749 |
| S5-196206 | pCR 28.812 Add intent driven coverage optimization scenario | Huawei | revised |  | S5-196651 |
| S5-196207 | pCR 28.812 Update Figures | Huawei | approved |  |  |
| S5-196208 | pCR 28.812 Add solution for Intent driven NSI performance assurance scenario | Huawei | revised |  | S5-196670 |
| S5-196209 | pCR 28.812 Add potential stage 3 solution for intent driven MnS | Huawei | noted |  |  |
| S5-196210 | pCR 28.812 Add the description of MnS component type C in the concept | Huawei | revised |  | S5-196653 |
| S5-196211 | pCR 28.812 Add the relation between IDMS and SON | Huawei | revised |  | S5-196654 |
| S5-196212 | pCR 28.812 Update Intent Driven Object | Huawei | revised |  | S5-196666 |
| S5-196213 | pCR 28.312 Add skeleton | Huawei | noted |  |  |
| S5-196214 | pCR 28.312 Add Scope | Huawei | noted |  |  |
| S5-196215 | pCR 28.312 Add definition and concept of intent | Huawei | noted |  |  |
| S5-196216 | pCR 28.312 Add concept of intent-driven MnS | Huawei | noted |  |  |
| S5-196217 | pCR 28.312 Add concept of intent-driven closed-loop | Huawei | noted |  |  |
| S5-196218 | Rel-16 CR TS 28.530 Clean up for incosistence | Huawei | revised |  | S5-196781 |
| S5-196219 | Rel-16 CR TS 28.531 Clean up for incosistence | Huawei | revised |  | S5-196782 |
| S5-196220 | Rel-15 CR TS 28.541 Correct the parameter sNSSAIList | Huawei | revised |  | S5-196597 |
| S5-196221 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | Huawei | not pursued |  | - |
| S5-196222 | Rel-15 CR TS 28.541 Update on RRMPolicy | Huawei | not pursued |  |  |
| S5-196223 | Rel-16 CR TS 28.541 Update on RRMPolicy | Huawei | not pursued |  |  |
| S5-196224 | Rel-15 CR TS 28.659 Update XML solution set to support EUTRAN frequency relation | Huawei | agreed |  |  |
| S5-196225 | Rel-16 CR TS 28.659 Update XML solution set to support EUTRAN frequency relation | Huawei | agreed |  |  |
| S5-196226 | Rel-15 CR TS 28.623 Correct XML Solution Set for generic NRM | Huawei | agreed |  |  |
| S5-196227 | Rel-15 CR TS 28.532 Correct provisioning management service | Huawei | revised |  | S5-196758 |
| S5-196228 | Rel-16 CR TS 28.532 Correct provisioning management service | Huawei | revised |  | S5-196759 |
| S5-196229 | Rel-15 CR TS 28.532 Correct fault supervision management service | Huawei | revised |  | S5-196760 |
| S5-196230 | Rel-16 CR TS 28.532 Correct fault supervision management service | Huawei | revised |  | S5-196761 |
| S5-196231 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | revised |  | S5-196762 |
| S5-196232 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | revised |  | S5-196763 |
| S5-196233 | Rel-15 CR TS 28.533 Add deployment scenario | Huawei | not pursued |  |  |
| S5-196234 | Rel-16 CR TS 28.533 Add deployment scenario | Huawei | not pursued |  |  |
| S5-196235 | Rel-16 CR TS 28.541 Correct XML Solution Set for NR | Huawei | revised |  | S5-196847 |
| S5-196236 | Rel-16 CR TS 28.541 Correct Network slice NRM | Huawei,Ericsson | revised |  | S5-196849 |
| S5-196237 | Rel-16 CR TS 28.623 Correct XML Solution Set for generic NRM | Huawei | revised |  | S5-196848 |
| S5-196238 | Rel-16 CR TS 28.532 Add RESTful HTTP-based solution set of file-based performance assurance for integration with ONAP VES | Huawei | withdrawn |  |  |
| S5-196239 | Rel-16 CR TS 28.532 Add Netconf-based solution set of provisioning MnS | Huawei | merged |  | S5-196791 |
| S5-196240 | Rel-16 CR TS 28.533 Update Clause A.7 Utilization of management data analystic services | Huawei | merged |  | S5-196850 |
| S5-196241 | Correct NR TAC attribute property | Ericsson LM | not treated |  |  |
| S5-196242 | To sync up with Rel-15 stage 2 (on NR NRM) | Ericsson LM | withdrawn |  |  |
| S5-196243 | To syn up with v1540 stage 2 | Ericsson Inc. | revised | S5-195412 | S5-196591 |
| S5-196244 | Rel-16 pCR TS 28.535 Add the description of data analytics utilization in closed loop SLA assurance | HUAWEI TECHNOLOGIES Co. Ltd. | noted |  | - |
| S5-196245 | pCR TR 28.807 Roles related to NPN management | TELEFONICA S.A. | revised |  | S5-196713 |
| S5-196246 | Rel-16 pCR 32.256 Update triggers description | Nokia, Nokia Shanghai Bell | revised |  | S5-196557 |
| S5-196247 | Rel-16 pCR 32.256 Solve Editor's Note for UE Presence in Presence Reporting Area (PRA) | Nokia, Nokia Shanghai Bell | revised |  | S5-196558 |
| S5-196248 | Rel-16 pCR 32.256 Introduce CDRs generation for ECUR | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-196249 | Rel-16 pCR 32.256 Introduce Roaming | Nokia, Nokia Shanghai Bell | revised |  | S5-196559 |
| S5-196250 | Rel-16 pCR 32.256 Update message content | Nokia, Nokia Shanghai Bell | revised |  | S5-196560 |
| S5-196251 | Rel-16 pCR 32.256 Add Detailed message format | Nokia, Nokia Shanghai Bell | revised |  | S5-196561 |
| S5-196252 | Rel-16 pCR 32.256 Introduce CHF CDR description for AMF | Nokia, Nokia Shanghai Bell | revised |  | S5-196562 |
| S5-196253 | Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-196254 | Rel-15 CR 32.274 Addition of Post Event Charging flows | Nokia, Nokia Shanghai Bell | revised |  | S5-196683 |
| S5-196255 | Rel-15 CR 32.274 Correction of message content for Post Event Charging | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196256 | Rel-15 CR 32.274 Correction of Service Specification Information | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196257 | Rel-16 CR 32.291 Add Retransmission IE for alignment with TS 32.290 | Nokia, Nokia Shanghai Bell | revised |  | S5-196691 |
| S5-196258 | Rel-15 CR 32.274 Clarify CHF selection via NRF and roaming | Nokia, Nokia Shanghai Bell | revised |  | S5-196684 |
| S5-196259 | Rel-15 CR 32.274 Correction of Multiple Unit Information | Nokia, Nokia Shanghai Bell | revised |  | S5-196685 |
| S5-196260 | Rel-15 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | revised |  | S5-196686 |
| S5-196261 | Rel-16 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | revised |  | S5-196687 |
| S5-196262 | Rel-16 CR 28.623 Introduce Stage 3 for configurable heartbeat | AT&T, Deutsche Telekom, Orange | not pursued |  | - |
| S5-196263 | Rel-16 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram | CATT | agreed |  |  |
| S5-196264 | Rel-15 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram | CATT | agreed |  |  |
| S5-196265 | Rel-16 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram | CATT | agreed |  |  |
| S5-196266 | Rel-15 CR TS 28.541 Correction of the wrong IOC names in transport view of NWDAF and NSSF NRM | CATT | agreed |  |  |
| S5-196267 | pCR 28.535 Add analytics scenario introduction | HUAWEI TECHNOLOGIES Co. Ltd. | not treated |  |  |
| S5-196268 | pCR 28.535 on MDAS assisted slice resource allocation | HUAWEI TECHNOLOGIES Co. Ltd. | not treated |  |  |
| S5-196269 | pCR 28.535 on MDAS assisted E2E latency assurance | HUAWEI TECHNOLOGIES Co. Ltd. | not treated |  |  |
| S5-196270 | pCR 28.535 on MDAS assisted SLS translation | HUAWEI TECHNOLOGIES Co. Ltd. | not treated |  |  |
| S5-196271 | pCR 28.535 on MDAS assisted coverage performance assuranace | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196815 |
| S5-196272 | New WID network policy management for 5G mobile networks based on NFV scenarios | China Mobile Com. Corporation | revised |  | S5-196582 |
| S5-196273 | Revised WID network policy management for mobile networks based on NFV scenarios | China Mobile Com. Corporation | revised |  | S5-196655 |
| S5-196274 | pCR 28.311 Add Information Object Classes | China Mobile Com. Corporation | revised |  | S5-196656 |
| S5-196275 | Add reference | China Mobile Com. Corporation | merged |  | S5-196656 |
| S5-196276 | pCR 28.311 Add Solution Set(SS)definitions | China Mobile Com. Corporation | revised |  | S5-196658 |
| S5-196277 | pCR 28.311 Add XML definition | China Mobile Com. Corporation | revised |  | S5-196659 |
| S5-196278 | pCR 28.311 Add SOAP Solution Set | China Mobile Com. Corporation | revised |  | S5-196660 |
| S5-196279 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | withdrawn |  |  |
| S5-196280 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | withdrawn |  |  |
| S5-196281 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | withdrawn |  |  |
| S5-196282 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | withdrawn |  |  |
| S5-196283 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | withdrawn |  |  |
| S5-196284 | Discussion on URI dynamic discovery | Huawei | revised |  | S5-196777 |
| S5-196285 | Rel-16 CR TS 28.533 Obtaining URI of MnS instance | Huawei | revised |  | S5-196778 |
| S5-196286 | Rel-16 CR TS 28.532 MnS instance URI discovery | Huawei | revised |  | S5-196779 |
| S5-196287 | Discussion paper about exposure governance | Huawei | revised |  | S5-196667 |
| S5-196288 | Rel-16 CR TS 28.532 Add stage 2 and stage 3 definition for MnS capability query | Huawei | not pursued |  | - |
| S5-196289 | Rel-16 CR TS 28.530 Add concept descritipn for tenant information | Huawei | revised |  | S5-196753 |
| S5-196290 | Rel-16 CR TS 28.533 Add concept descritipn for management capabiliy | Huawei | revised |  | S5-196754 |
| S5-196291 | Discussion paper about tenant information usage in network slice NRM | Huawei | noted |  |  |
| S5-196292 | Rel-16 CR TS 28.541 ServiceProfile extension to support multiple tenants environment | Huawei | not pursued |  |  |
| S5-196293 | Rel-16 CR TS 28.550 Performance management service enhancement for tenant supporting | Huawei | revised |  | S5-196755 |
| S5-196294 | Rel-16 CR TS 28.552 Performance measurement extension to support multiple tenants environment | Huawei | revised |  | S5-196756 |
| S5-196295 | Rel-16 CR 28.552 Correct measurements on RTT delay between PSA UPF and UE | Huawei | not pursued |  |  |
| S5-196296 | Rel-16 CR TS 28.541 XML Solution Set for 5GC | Huawei | agreed |  |  |
| S5-196297 | New WID on network slice management enhancements | Huawei | revised |  | S5-196583 |
| S5-196298 | Presentation of TS 28.311 for Information to SA#86 | China Mobile Com. Corporation | noted |  |  |
| S5-196299 | Rel-11 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196805 |
| S5-196300 | Rel-12 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196806 |
| S5-196301 | Rel-13 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196807 |
| S5-196302 | Rel-14 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196808 |
| S5-196303 | Rel-15 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196809 |
| S5-196304 | Add support of Configurable FM | Ericsson LM | revised |  | S5-196598 |
| S5-196305 | Add missing (E-UTRAN) cell and freq relation | Ericsson LM | revised |  | S5-196589 |
| S5-196306 | Rel-16 CR TS 28.541 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196810 |
| S5-196307 | Rel-16 CR TS 28.540 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196780 |
| S5-196308 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | revised |  | S5-196590 |
| S5-196309 | Rel-16 CR TS 28.550 add clarification of the NSI and NSSI performance assurance | Huawei Telecommunication India | not pursued |  | - |
| S5-196310 | pCR 28.313 Add PCI configuration use case and requirements | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196751 |
| S5-196311 | pCR 28.313 Add ANR management use case and requirements | HUAWEI TECHNOLOGIES Co. Ltd. | noted |  | - |
| S5-196312 | pCR 28.313 Add CCO use cases and requriements | HUAWEI TECHNOLOGIES Co. Ltd. | not treated |  |  |
| S5-196313 | pCR 28.313 Add MRO use cases and requriements | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196750 |
| S5-196314 | Rel-15 CR TS 28.622 update the definition of attribute measurementsList | ZTE Corporation, Ericsson | not pursued |  | - |
| S5-196315 | Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs | ZTE Corporation, Ericsson | not pursued |  | - |
| S5-196316 | Rel-15 CR 28.532 Corrections to provisioning MnS notification definitions (Stage 2) | Orange | merged |  | S5-196758 |
| S5-196317 | Rel-16 CR 28.532 Corrections to provisioning MnS notification definitions (Stage 2) | Orange | merged |  | S5-196759 |
| S5-196318 | pCR 28.861 Remove work not in Rel-16 | Ericsson France S.A.S | not treated |  |  |
| S5-196319 | pCR 28.313 ANR Business level requirements | Ericsson France S.A.S | revised |  | S5-196802 |
| S5-196320 | pCR 28.313 ANR Specification level requirements for NR RAN | Ericsson France S.A.S | revised |  | S5-196803 |
| S5-196321 | pCR 28.313 ANR Specification level requirements for E-UTRAN | Ericsson France S.A.S | revised |  | S5-196804 |
| S5-196322 | UC Deployment of a stand-alone NPN with 3GPP and non-3GPP segments | TELEFONICA S.A. | revised |  | S5-196734 |
| S5-196323 | pCR 28.810 Add skeleton | China Mobile, Huawei, ZTE, Turkcell | approved |  |  |
| S5-196324 | pCR 28.810 Add background | China Mobile, Huawei | revised |  | S5-196739 |
| S5-196325 | pCR 28.810 Add scope | China Mobile, Huawei | revised |  | S5-196740 |
| S5-196326 | pCR Add skeleton of draft TR 28.809 | Intel Finland Oy | revised |  | S5-196752 |
| S5-196327 | pCR Add overview for MDA | Intel Finland Oy | revised |  | S5-196812 |
| S5-196328 | Add MDA process | Intel Finland Oy | noted |  |  |
| S5-196329 | Add relation between MDA and SON | Intel Finland Oy | noted |  |  |
| S5-196330 | Add UC on coverage issue analysis | Intel Finland Oy | revised |  | S5-196814 |
| S5-196331 | Rel-15 CR 28.550 Add stream information management related operations | Intel Finland Oy | not pursued |  |  |
| S5-196332 | Rel-16 CR 28.550 Add stream information management related operations | Intel Finland Oy | not pursued |  |  |
| S5-196333 | Discussion paper on LS to RAN3 on QoS monitoring for URLLC | Intel Finland Oy | endorsed |  |  |
| S5-196334 | LS to RAN3 on QoS monitoring for URLLC | Intel Finland Oy | revised |  | S5-196840 |
| S5-196335 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS | Intel Finland Oy | revised |  | S5-196817 |
| S5-196336 | Rel-16 CR 28.552 Add measurements related to registration via trusted non-3GPP access | Intel Finland Oy | agreed |  |  |
| S5-196337 | Rel-16 CR 28.552 Add measurements related to service request via trusted non-3GPP access | Intel Finland Oy | agreed |  |  |
| S5-196338 | Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN | Intel Finland Oy | revised |  | S5-196610 |
| S5-196339 | Rel-16 CR 28.552 Add measurements related to QoS flow setup via untrusted non-3GPP access | Intel Finland Oy | revised |  | S5-196772 |
| S5-196340 | Rel-16 CR 28.552 Add measurements related to QoS flow modification via untrusted non-3GPP access | Intel Finland Oy | revised |  | S5-196773 |
| S5-196341 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS via N26 interface | Intel Finland Oy | revised |  | S5-196774 |
| S5-196342 | Rel-16 CR TS 28.540 Add GSMA GST mapping related requirements | Huawei, China Mobile | revised |  | S5-196641 |
| S5-196343 | Rel-16 CR TS 28.541 Update on slice model | Huawei, China Mobile | revised |  | S5-196642 |
| S5-196344 | Living document of review of GSMA GST | Huawei, China Mobile | approved |  |  |
| S5-196345 | Rel-16 CR 28.541 Add relation of GST and profiles | Huawei, China Mobile | revised |  | S5-196620 |
| S5-196346 | Rel-16 CR TS 28.554 Add 5G Energy Efficiency KPI | Huawei, Orange | revised |  | S5-196770 |
| S5-196347 | pCR 28.310 Cleanup proposal | Huawei | approved |  |  |
| S5-196348 | pCR 28.310 Add requirements for energy saving cell overlaid cases | Huawei, Orange | revised |  | S5-196647 |
| S5-196349 | pCR 28.310 Add basic concepts related to energy saving | Huawei, Orange | approved |  |  |
| S5-196350 | pCR 28.310 Add solutions for energy efficiency | Huawei, Orange | approved |  |  |
| S5-196351 | pCR 28.310 Add overview for various energy saving solutions | Huawei, Orange | revised |  | S5-196649 |
| S5-196352 | pCR 28.807 Update on general concept | Huawei | revised |  | S5-196710 |
| S5-196353 | pCR 28.807 clean-up use case of NPN provisioning by a network slice of a PLMN | Huawei | revised |  | S5-196709 |
| S5-196354 | pCR 28.807 Management of stand-alone non-public networks | Huawei | revised |  | S5-196711 |
| S5-196355 | pCR 28.807 Management of public network integrated NPN | Huawei | revised |  | S5-196712 |
| S5-196356 | pCR 28.807 Add use case of NPN provisioning by a stand-alone non-public network | Huawei | noted |  | - |
| S5-196357 | pCR 28.807 Add requirements for management of public network integrated NPN | Huawei | revised |  | S5-196737 |
| S5-196358 | pCR 28.807 Add use case of providing traffic management and monitoring capability to an NPN operator | Huawei | revised |  | S5-196736 |
| S5-196359 | pCR 28.807 Add use case of 3rd party management of NPN | Huawei | noted |  |  |
| S5-196360 | pCR 28.812 Add an example of utilization intent Driven MnS for factory private network | Huawei | noted |  |  |
| S5-196361 | pCR 28.313 Add SON Concept | Huawei,China Telecommunications | merged |  | S5-196675 |
| S5-196362 | pCR 28.313 Add usecase and requirements for establishment of new NF in network | Huawei,China Telecommunications | not treated |  |  |
| S5-196363 | pCR 28.810 Add concept of network autonomy levels | Huawei,China Mobile | noted |  |  |
| S5-196364 | Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge | Samsung Electronics France SA | revised |  | S5-196537 |
| S5-196365 | Editorial revision for Introduction | Nanjing Ericsson Panda Com Ltd | approved |  |  |
| S5-196366 | Revise the Introduction | Nanjing Ericsson Panda Com Ltd | agreed |  |  |
| S5-196367 | Add missing definition for matching-criteria-attributes | Ericsson LM | revised |  | S5-196599 |
| S5-196368 | Rel-16 CR 32.290 Explanation of when Units Usage must be reported | Ericsson | revised |  | S5-196693 |
| S5-196369 | Rel-16 CR 32.290 Explanation of Units Usage in Initial | Ericsson | revised |  | S5-196694 |
| S5-196370 | Rel-16 CR 32.298 Correction of Multiple Unit Usage | Ericsson | agreed |  |  |
| S5-196371 | Rel-16 CR 32.255 Correction of Container definition | Ericsson | agreed |  |  |
| S5-196372 | Rel-16 CR 32.290 Wrong name on CR | Ericsson | agreed |  |  |
| S5-196373 | Rel-16 CR 32.255 Correction of QoS Based Charging description | Ericsson | revised |  | S5-196695 |
| S5-196374 | Rel-16 CR 32.255 Definition of Emergency Session handling | Ericsson | revised |  | S5-196714 |
| S5-196375 | Rel-16 CR 32.255 Correction of Charging Identifier | Ericsson | not pursued |  |  |
| S5-196376 | DP Way forward of KPI reporting related MnS | ZTE Corporation, China Telecom | revised |  | S5-196661 |
| S5-196377 | Rel-16 CR 32.255 Missing default trigger for Offline | Ericsson | revised |  | S5-196715 |
| S5-196378 | Rel-16 CR 32.298 Correction of ServingNetworkFunctionID | Ericsson | revised |  | S5-196678 |
| S5-196379 | Rel-16 CR 32.291 Correction of yaml | Ericsson | revised |  | S5-196716 |
| S5-196380 | Rel-16 CR 32.290 Definition of State Machine | Ericsson | not pursued |  |  |
| S5-196381 | Rel-16 CR 32.290 Correction of redirect at termination | Ericsson | not pursued |  |  |
| S5-196382 | Rel-16 CR 32.290 Correction of Converged Charging principles | Ericsson | revised |  | S5-196717 |
| S5-196383 | Rel-16 CR 32.291 Correction of pDUSessionChargingInformation | Ericsson | revised |  | S5-196718 |
| S5-196384 | Rel-16 CR 32.291 Adding Exposure Function Northbound API Specified Data Type | Ericsson | revised |  | S5-196545 |
| S5-196385 | Rel-16 CR 32.275 Addition of convergent flows | Ericsson | revised |  | S5-196547 |
| S5-196386 | Rel-16 CR 32.281 Addition of convergent flows | Ericsson | revised |  | S5-196548 |
| S5-196387 | Rel-16 pCR 28.201 Architecture considerations | Ericsson | revised |  | S5-196556 |
| S5-196388 | Rel-16 pCR 28.202 Architecture considerations | Ericsson | noted |  |  |
| S5-196389 | Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | China Telecommunications, ZTE | revised |  | S5-196662 |
| S5-196390 | Add a new description of KPI that related to Mean number of successful periodic registration updates | China Mobile E-Commerce Co. | revised |  | S5-196784 |
| S5-196391 | Study on concept, requirements and solutions for levels of autonomous network | China Mobile, Huawei, ZTE, Turkcell | approved |  |  |
| S5-196392 | Add a new description of KPI that related to successful rate of mobility registration updates of Single Network Slice Instance | China Mobile E-Commerce Co. | revised |  | S5-196785 |
| S5-196393 | Rel-16 CR TS 28.550 Add UC and requirements for NSSI KPI job control | China Telecommunications, ZTE | merged |  | S5-196662 |
| S5-196394 | Rel-16 CR TS 28.550 Add UC and requirements for NSI KPI job control | China Telecommunications, ZTE | merged |  | S5-196662 |
| S5-196395 | Add Automatic CSI to NSI mapping use case | China Mobile E-Commerce Co. | not treated |  |  |
| S5-196396 | Add description and requirements of communication service instance monitoring | China Mobile E-Commerce Co. | not pursued |  |  |
| S5-196397 | Rel-16 CR TS 28.550 Add UC and requirements for NetworkSubNetwork KPI job control | China Telecommunications, ZTE | merged |  | S5-196662 |
| S5-196398 | Add description of communication service lifecycle prepareation phase | China Mobile E-Commerce Co. | not pursued |  |  |
| S5-196399 | Add description of communication service catelogue | China Mobile E-Commerce Co. | not pursued |  |  |
| S5-196400 | Add Concept for Establishment of new NF in network | China Telecommunications, Huawei | not treated |  |  |
| S5-196401 | Add Concept for Establishment of new NF in network | China Telecommunications, Huawei | withdrawn |  |  |
| S5-196402 | pCR28.805 Add New Possible Parameters in the Mapping Between GSMA GST and SA5 NST | China Mobile E-Commerce Co. | not pursued |  |  |
| S5-196403 | Discussion on the effect to existed 5G management system when introduced 5G SLA | China Mobile E-Commerce Co. | revised |  | S5-196783 |
| S5-196404 | pCR 28.809 Add MDAS assisted NWDAF related use cases | Huawei | not treated |  |  |
| S5-196405 | pCR 28.809 Add descriptions of different data types for analytics purpose | Huawei | not treated |  |  |
| S5-196406 | pCR 28.809 Add use case of MDAS assisted KPI anomaly detection | Huawei | not treated |  |  |
| S5-196407 | pCR 28.809 Add use case of MDAS assisted alarm incident detection | Huawei | not treated |  |  |
| S5-196408 | pCR 28.809 Add use case of MDAS assisted resource allocation analysis across multiple NSI | Huawei | not treated |  |  |
| S5-196409 | Rel-16 CR TS 28.550 Add KPI job control service | ZTE Corporation, China Telecom | revised |  | S5-196748 |
| S5-196410 | Rel-16 CR TS 28.550 Update the description of scope | ZTE, China Telecom | agreed |  |  |
| S5-196411 | Rel-16 CR TS 28.552 Re-orgnize the structure of TS 28.552 | HUAWEI TECHNOLOGIES Co. Ltd. | revised |  | S5-196776 |
| S5-196412 | Rel-16 CR TS 28.554 Update the KPI template | ZTE, China Telecom | merged |  | S5-196793 |
| S5-196413 | pCR 28.861 Trace and MDT | Ericsson France S.A.S | not treated |  |  |
| S5-196414 | Organizing Self Organizing Specifications | Ericsson France S.A.S | revised |  | S5-196673 |
| S5-196415 | Rel-16 CR 32.298 Correction of missing otherQutaType in sMFTrigger | Ericsson | revised |  | S5-196719 |
| S5-196416 | pCR 28.809 Add use case of MDAS assisted user data congestion analysis | Huawei | withdrawn |  |  |
| S5-196417 | pCR 28.809 Add use case of MDAS assisted traffic load analysis | Huawei | not treated |  |  |
| S5-196418 | pCR 28.313 Add ANR Use Case: Start | Ericsson France S.A.S | revised |  | S5-196794 |
| S5-196419 | pCR 28.313 Add ANR Use Case: Stop | Ericsson France S.A.S | revised |  | S5-196795 |
| S5-196420 | pCR 28.313 Add ANR Use Case: Notification | Ericsson France S.A.S | revised |  | S5-196796 |
| S5-196421 | pCR 28.313 Add ANR Use Case: Handover whitelisting | Ericsson France S.A.S | revised |  | S5-196797 |
| S5-196422 | pCR 28.313 Add ANR Use Case: Handover blacklisting | Ericsson France S.A.S | revised |  | S5-196798 |
| S5-196423 | pCR 28.313 Add ANR Use Case: Prohibit X2/Xn | Ericsson France S.A.S | revised |  | S5-196799 |
| S5-196424 | pCR 28.313 Add ANR Use Case: Prohibit X2/Xn handover | Ericsson France S.A.S | revised |  | S5-196800 |
| S5-196425 | CR 28.622 Add subscription NRM fragment | Orange, Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-196426 | CR 28.622 Add heartbeat NRM fragment | Nokia, Nokia Shanghai Bell | not pursued |  | - |
| S5-196427 | Rel-16 CR 32.255 Adding ETSUN architecture with I-SMF insertion | Ericsson | not pursued |  |  |
| S5-196428 | CR 28.623 Add subscription NRM fragment | Orange, Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196429 | Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging requirements | Ericsson | merged |  | S5-196724 |
| S5-196430 | CR 28.623 Add heartbeat NRM fragment | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196431 | Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging information | Ericsson | revised |  | S5-196728 |
| S5-196432 | Rel-16 CR 32.255 Adding I-SMF in applicable triggers for FBC | Ericsson | not pursued |  |  |
| S5-196433 | CR 32.158 Clarify design pattern for scoping and filtering | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-196434 | CR 32.158 Clarify design pattern for attribute field selection | Nokia; Nokia Shanghai Bell | withdrawn |  |  |
| S5-196435 | CR 32.158 Correct basic design patterns | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196436 | CR 32.158 Add design pattern for patching multiple resources | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196437 | CR 32.158 Correct resource representation formats | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196438 | CR 32.158 Add examples | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196439 | CR 28.532 Make scoping and filtering optional in the ProvMnS | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-196440 | CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196441 | pCR 28.808 Editorial corrections | TNO | revised |  | S5-196664 |
| S5-196442 | pCR 28.809 Add use case of MDAS assisted user data congestion analysis | Huawei | revised |  | S5-196816 |
| S5-196443 | pCR 28.808 Add use case for creation of a network slice instance associated with a Satellite RAN and a Terrestrial RAN | TNO | revised |  | S5-196665 |
| S5-196444 | Add streaming format for Trace | Ericsson LM | withdrawn |  |  |
| S5-196445 | Discussion paper around RRM Policy | Ericsson LM | noted |  |  |
| S5-196446 | CR 32.158 Clarify design pattern for attribute field selection | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-196447 | Rel-16 CR 28.541 Update of RRM Policy | Ericsson LM | not pursued |  |  |
| S5-196448 | Discussion on SA5 OA&M SWG OpenAPI files, JSON specifications and ZIP files | Orange | noted |  |  |
| S5-196449 | Add YANG/Netconf-based solution set for Generic provisioning MnS | Ericsson LM | revised |  | S5-196791 |
| S5-196450 | Rel-16 pCR TR 32.845 Conclusion on key issue 1.3 for topic 1 | Openet Telecom | merged |  | S5-196552 |
| S5-196451 | CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-196452 | Correct faulty implementation of figure 4.4.3.1 | Ericsson India Private Limited | agreed |  |  |
| S5-196453 | Implement Edithelp comments | Ericsson India Private Limited | agreed |  |  |
| S5-196454 | Add State Handling diagram for NF service | Nokia, Nokia Shanghai Bell | not pursued |  | - |
| S5-196455 | Update Stage 2 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | revised |  | S5-196700 |
| S5-196456 | Update Stage 3 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196457 | Add Stage 2 NEF definition in 5GC NRM | Nokia, Nokia Shanghai Bell | revised |  | S5-196703 |
| S5-196458 | Add Stage 3 NEF definition in 5GC NRM | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196459 | Add Stage 2 SCP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | revised |  | S5-196702 |
| S5-196460 | Add Stage 3 definitions of 5GC NRM to align with stage 2 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-196461 | Support communication model in 5GC NF - Stage 2 | Nokia, Nokia Shanghai Bell | revised |  | S5-196704 |
| S5-196462 | Support communication model in 5GC NF - Stage 3 | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196463 | Add requirement in NRM to support GST attributes | Nokia, Nokia Shanghai Bell | merged |  | S5-196641 |
| S5-196464 | Add generic characters of GST in slice NRM - stage 2 | Nokia, Nokia Shanghai Bell | merged |  | S5-196642 |
| S5-196465 | Add generic characters of GST in slice NRM - stage 3 | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196466 | Update CoverageArea attribute in service profile - stage 2 | Nokia, Nokia Shanghai Bell | merged |  | S5-196642 |
| S5-196467 | Update CoverageArea attribute in service profile - stage 3 | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-196468 | Fix merging errors of the specification | Nokia, Nokia Shanghai Bell | not treated |  |  |
| S5-196469 | Solutions for Editor's notes | Ericsson India Private Limited | agreed |  |  |
| S5-196470 | Add passedById and other updates | Ericsson India Private Limited | agreed |  |  |
| S5-196471 | Implement Edithelp comments | Ericsson India Private Limited | agreed |  |  |
| S5-196472 | CR Rel-16 TR 28.806 Implementation of fixes for issues identified by EditHelp | Nokia | revised |  | S5-196786 |
| S5-196473 | Solutions for Editor's note | Ericsson India Private Limited | agreed |  |  |
| S5-196474 | pCR 28.535 Add introduction to concepts and background | Ericsson India Private Limited,Deutsche Telekom | revised |  | S5-196614 |
| S5-196475 | Add introduction | Ericsson India Private Limited,Deutsche Telekom | revised |  | S5-196612 |
| S5-196476 | Add lifecycle of a communication service | Ericsson India Private Limited,Deutsche Telekom | revised |  | S5-196615 |
| S5-196477 | Discussion paper on Heartbeat MnS specification approach | AT&T GNS Belgium SPRL | revised |  | S5-196707 |
| S5-196478 | Add management control loops | Ericsson India Private Limited | approved |  |  |
| S5-196479 | Discussion paper on Integration of ONAP and 3GPP 5G management WoW | Ericsson Telecomunicazioni SpA | withdrawn |  |  |
| S5-196480 | Add scope | Ericsson India Private Limited | revised |  | S5-196611 |
| S5-196481 | Communication service assurance business use case and requirements | Ericsson India Private Limited,Deutsche Telekom | revised |  | S5-196619 |
| S5-196482 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | revised | S5-195914 | S5-196600 |
| S5-196483 | Introduce table of content | Ericsson India Private Limited | approved |  | - |
| S5-196484 | Add introduction | Ericsson India Private Limited,Deutsche Telekom | revised |  | S5-196742 |
| S5-196485 | Add lifecycle of a communication service | Ericsson India Private Limited,Deutsche Telekom | noted |  |  |
| S5-196486 | Add scope | Ericsson India Private Limited | revised |  | S5-196741 |
| S5-196487 | Rel-16 CR TS 32.421 Addition of streaming trace requirements | Nokia | revised |  | S5-196708 |
| S5-196488 | Discussion paper on structure of 28.536 | Ericsson India Private Limited | noted |  |  |
| S5-196489 | Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | not pursued |  | - |
| S5-196490 | Introduce table of content | Ericsson India Private Limited | revised |  | S5-196744 |
| S5-196491 | Rel-16 CR 32.255 Adding I-SMF in applicable triggers for QBC | Ericsson | not pursued |  |  |
| S5-196492 | Discussion paper on SLA and SLS | Ericsson India Private Limited | withdrawn |  |  |
| S5-196493 | Rel-16 CR 32.255 Adding I-SMF in PDU Session Charging message flow | Ericsson | revised |  | S5-196729 |
| S5-196494 | Add Annex A Analysis of automation enablement use cases | Ericsson India Private Limited | withdrawn |  |  |
| S5-196495 | Communication service assurance scenario | Ericsson India Private Limited | not treated |  |  |
| S5-196496 | Introduce definition of SLS | Ericsson India Private Limited | withdrawn |  |  |
| S5-196497 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | revised |  | S5-196594 |
| S5-196498 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | revised |  | S5-196595 |
| S5-196499 | Proposal for revised SA5 ToR | Ericsson Telecomunicazioni SpA | revised |  | S5-196576 |
| S5-196500 | New WID on management of MDT in 5G | Ericsson Telecomunicazioni SpA | revised |  | S5-196584 |
| S5-196501 | pCR TR28.809 Add concept for Management Data Analytics | NEC Corporation | merged |  | S5-196812 |
| S5-196502 | Correction of NR definition to avoid misalignment with RAN2 | Ericsson Telecomunicazioni SpA | agreed |  |  |
| S5-196503 | Add streaming format for Trace | Ericsson Telecomunicazioni SpA | not pursued |  |  |
| S5-196504 | pCR R16 28.405-080 Correcting UE request session id | Ericsson Telecomunicazioni SpA | approved |  |  |
| S5-196505 | Correcting recording session id | Ericsson Telecomunicazioni SpA | approved |  |  |
| S5-196506 | Discussion paper on Integration of ONAP and 3GPP 5G management WoW | Ericsson Telecomunicazioni SpA | noted |  |  |
| S5-196507 | LS on 3GPP – ONAP Cooperation & WoW | Ericsson Telecomunicazioni SpA | revised |  | S5-196792 |
| S5-196508 | LS from NGMN to SA5 on 5G End-to-End Architecture Framework | NGMN | replied to |  |  |
| S5-196509 | LS from CT4 ccSA5 on ExternalDoc version number change enhancement to 21.900 | C4-193801 | noted |  |  |
| S5-196510 | LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis | GSMA | replied to |  |  |
| S5-196511 | LS from ETSI NFV to SA5 on ETSI completes work on YANG models for Virtualised Network Function and Network Services Descriptor specification | ETSI ISG NFV | noted |  |  |
| S5-196512 | LS on O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs | O-RAN Alliance | noted |  |  |
| S5-196513 | Reply LS to “O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs” | SP-190947 | noted |  |  |
| S5-196514 | LS from RAN1 on response to SA5 LS on clarification of OAM requirements for RIM | R1-1909904 | noted |  |  |
| S5-196515 | LS from RAN2 ccSA5 on System Impacts of NR-U | R2-1911533 | noted |  |  |
| S5-196516 | LS on alignment between SA5 and RAN2 on L2 measurements | R2-1911841 | replied to |  |  |
| S5-196517 | LS from RAN3 Reply on radio resource management policy | R3-194550 | postponed |  |  |
| S5-196518 | LS from RAN2 to SA5 on radio resource management policy | R2-1911791 | postponed |  |  |
| S5-196519 | LS from RAN3 Reply on Data activity reporting | R3-194572 | noted |  |  |
| S5-196520 | Ls from RAN3 Reply on User Data Congestion Analytics | R3-194749 | postponed |  |  |
| S5-196521 | LS from RAN3 ccSA5 on the IAB-indication to core network | R3-194787 | noted |  |  |
| S5-196522 | Reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing | S6-191841 | postponed |  |  |
| S5-196523 | Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management | ETSI ISG ZSM | replied to |  |  |
| S5-196524 | Rel-16 CR 32.291 Add nssai query parameter | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-196525 | New WID CCS-controlled Quota Management in Nchf Converged Charging | Amdocs Software Systems Ltd | revised |  | S5-196544 |
| S5-196526 | Rel-15 CR 32.291 Correction of nfIdentification in yaml | Ericsson | revised |  | S5-196721 |
| S5-196527 | Resubmitted Reply LS from RAN2 to SA5 on the user plane latency measurement | R2-1908144 | noted |  |  |
| S5-196528 | Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | GSMA | postponed |  |  |
| S5-196529 | Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | ITU-T SG2 | postponed |  |  |
| S5-196530 | Rel-16 pCR 32.256 Corrections from EditHelp | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-196531 | Sequence of pCR discussion | Intel Corporation (UK) Ltd | noted |  |  |
| S5-196532 | Sequence of pCR discussion | Intel Corporation (UK) Ltd | noted |  |  |
| S5-196533 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | revised |  | S5-196657 |
| S5-196534 | Rel-15 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | revised |  | S5-196722 |
| S5-196535 | Rel-16 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | revised |  | S5-196723 |
| S5-196536 | Sequence proposal for 6.4.1 | Ericsson | noted |  |  |
| S5-196537 | Rel-16 pCR 28.812 Solution for CSI deployemnt at the edge | Samsung Electronics France SA | not treated | S5-196364 |  |
| S5-196538 | RP-192295 SA5 work areas with potential RAN impact (SA5 contribution to RAN#85 plenary) | Ericsson | noted | - | - |
| S5-196539 | Rel-16 CR 28.532 Repair broken links in References | AT&T, Deutsche Telekom, Orange | not treated | - | - |
| S5-196540 | LS/r on Energy Efficiency on 5G (3GPP TSG SA5-S5-195667) | ITU-T SG5 | postponed | - | - |
| S5-196541 | IPR and legal declaration | WG Chairman | noted | S5-196001 | - |
| S5-196542 | New WID Charging Access Traffic Steering, Switching and Splitting in 5G system architecture | Nokia, Nokia Shanghai Bell | agreed | S5-196057 | - |
| S5-196543 | NWI on Charging for 5WWC | Huawei Telecommunication India | agreed | S5-196167 | - |
| S5-196544 | New WID CHF-controlled quota management | Amdocs Software Systems Ltd | agreed | S5-196525 | - |
| S5-196545 | Rel-16 CR 32.291 Adding Exposure Function Northbound API Specified Data Type | Ericsson | agreed | S5-196384 | - |
| S5-196546 | Rel-16 CR 32.260 IMS Charging architecture introduction | Huawei | agreed | S5-196138 | - |
| S5-196547 | Rel-16 CR 32.275 Addition of convergent flows | Ericsson | agreed | S5-196385 | - |
| S5-196548 | Rel-16 CR 32.281 Addition of convergent flows | Ericsson | agreed | S5-196386 | - |
| S5-196549 | Rel-16 pCR TR 32.845 Conclusion on Business to Consumer | Huawei | approved | S5-196131 | - |
| S5-196550 | Rel-16 pCR TR 32.845 Conclusion on event based charging | Huawei | approved | S5-196132 | - |
| S5-196551 | Rel-16 pCR TR 32.845 Conclusion on solution 1.6 | Huawei | approved | S5-196133 | - |
| S5-196552 | Rel-16 pCR TR 32.845 Relocate the conclusion of topic 1 | Huawei,Openet | approved | S5-196134 | - |
| S5-196553 | Rel-16 pCR TR 32.845 Correction on the editorial Comments | Huawei | approved | S5-196161 | - |
| S5-196554 | Rel-16 pCR TS 28.201 Update of the Skeleton | Huawei | approved | S5-196135 | - |
| S5-196555 | Rel-16 pCR TS 28.201 Scope | Huawei | approved | S5-196136 | - |
| S5-196556 | Rel-16 pCR 28.201 Architecture considerations | Ericsson | noted | S5-196387 | - |
| S5-196557 | Rel-16 pCR 32.256 Update triggers description | Nokia, Nokia Shanghai Bell | approved | S5-196246 | - |
| S5-196558 | Rel-16 pCR 32.256 Solve Editor's Note for UE Presence in Presence Reporting Area (PRA) | Nokia, Nokia Shanghai Bell | approved | S5-196247 | - |
| S5-196559 | Rel-16 pCR 32.256 Introduce Roaming | Nokia, Nokia Shanghai Bell | approved | S5-196249 | - |
| S5-196560 | Rel-16 pCR 32.256 Update message content | Nokia, Nokia Shanghai Bell | approved | S5-196250 | - |
| S5-196561 | Rel-16 pCR 32.256 Add Detailed message format | Nokia, Nokia Shanghai Bell | approved | S5-196251 | - |
| S5-196562 | Rel-16 pCR 32.256 Introduce CHF CDR description for AMF | Nokia, Nokia Shanghai Bell | approved | S5-196252 | - |
| S5-196563 | Draft TS 32.256 | Nokia, Nokia Shanghai Bell | approved | - | - |
| S5-196564 | Draft TS 28.201 | Huawei | approved | - | - |
| S5-196565 | Rel-15 CR 32.291 Add the Service Specification information | Huawei | agreed | S5-196059 | - |
| S5-196566 | Rel-16 CR 32.291 Add the Service Specification information | Huawei | agreed | S5-196107 | - |
| S5-196567 | Rel-15 CR 32.298 Add the Service Specification information | Huawei | agreed | S5-196060 | - |
| S5-196568 | Rel-16 CR 32.298 Add the Service Specification information | Huawei | agreed | S5-196108 | - |
| S5-196569 | Rel-15 CR 32.255 Add the QNC support | Huawei | agreed | S5-196064 | - |
| S5-196570 | Rel-16 CR 32.255 Add the QNC support | Huawei | agreed | S5-196111 | - |
| S5-196571 | Rel-15 CR 32.291 Add the QNC support | Huawei | agreed | S5-196065 | - |
| S5-196572 | LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196173 | S5-196765 |
| S5-196573 | Notes of OAM sessions from the vice Chair | Huawei | noted | - | - |
| S5-196574 | Reply to: Reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing | Samsung | withdrawn | - | - |
| S5-196575 | Discussion on supporting end-to-end slicing management | AsiaInfo, CMCC | noted | - | - |
| S5-196576 | Proposal for revised SA5 ToR | Ericsson Telecomunicazioni SpA | endorsed | S5-196499 | - |
| S5-196577 | Add new NRM fragment supporting resource allocation and deallocation | Nokia | not pursued | - | - |
| S5-196578 | Update allocation and deallocation specification due to new NRM fragment for resource allocation and deallocation | Nokia | not pursued | - | - |
| S5-196579 | SA5 Summary of OAM WIs/SIs and Work Plan | WG Vice Chair (Huawei) | noted | S5-196168 | - |
| S5-196580 | Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis | Nokia | revised | - | S5-196821 |
| S5-196581 | Reply to: Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management | Huawei | revised | - | S5-196819 |
| S5-196582 | New WID network policy management for 5G mobile networks based on NFV scenarios | China Mobile Com. Corporation | revised | S5-196272 | S5-196854 |
| S5-196583 | New SID on network slice management enhancements | Huawei | revised | S5-196297 | S5-196881 |
| S5-196584 | New WID on management of MDT in 5G | Ericsson Telecomunicazioni SpA | agreed | S5-196500 | - |
| S5-196585 | Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | not pursued | S5-196163 | - |
| S5-196586 | Rel-16 CR TS 28.552 Add Unregistered subscribers measurements for UDM | China Mobile Com. Corporation | agreed | S5-196165 | - |
| S5-196587 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc.,Huawei | agreed | S5-196153 | - |
| S5-196588 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | agreed | S5-196156 | - |
| S5-196589 | Add missing (E-UTRAN) cell and freq relation | Ericsson, Huawei | agreed | S5-196305 | - |
| S5-196590 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | agreed | S5-196308 | - |
| S5-196591 | To syn up with v1540 stage 2 | Ericsson, Huawei | agreed | S5-196243 | - |
| S5-196592 | Rel-15 CR TS 28.622 update the definition of attribute measurementsList | ZTE Corporation, Ericsson | withdrawn | - | - |
| S5-196593 | Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs | ZTE Corporation, Ericsson | withdrawn | - | - |
| S5-196594 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | revised | S5-196497 | S5-196827 |
| S5-196595 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | revised | S5-196498 | S5-196828 |
| S5-196596 | Correct use of ProxyCellList | Ericsson LM | agreed | S5-196159 | - |
| S5-196597 | Rel-15 CR TS 28.541 Correct the parameter sNSSAIList | Huawei | not pursued | S5-196220 | - |
| S5-196598 | Add support of Configurable FM | Ericsson LM | not pursued | S5-196304 | - |
| S5-196599 | Add missing definition for matching-criteria-attributes | Ericsson LM | not treated | S5-196367 | - |
| S5-196600 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | revised | S5-196482 | S5-196845 |
| S5-196601 | Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | withdrawn | - | - |
| S5-196602 | Correct Import table | Ericsson Inc. | agreed | S5-196154 | - |
| S5-196603 | Correct Import table | Ericsson Inc. | agreed | S5-196160 | - |
| S5-196604 | Reply to: LS on alignment between SA5 and RAN2 on L2 measurements | Intel | revised | - | S5-196841 |
| S5-196605 | Double S1/NG discussion in relation to retainability | Nokia Solutions & Networks (I) | endorsed | S5-196043 | - |
| S5-196606 | Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30 | Nokia Solutions & Networks (I) | revised | S5-196044 | S5-196836 |
| S5-196607 | Add new measurements related to QoS Flow Setup via Initial Context Setup | Nokia Solutions & Networks (I) | revised | S5-196045 | S5-196837 |
| S5-196608 | Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2 | Nokia Solutions & Networks (I) | revised | S5-196046 | S5-196838 |
| S5-196609 | Add new Use case related to extended 5QI 1 QoS Flow Retainability monitoring into A30 | Nokia Solutions & Networks (I) | agreed | S5-196047 | - |
| S5-196610 | Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN | Intel Finland Oy | not treated | S5-196338 | - |
| S5-196611 | Add scope | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196480 | - |
| S5-196612 | Add introduction | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196475 | - |
| S5-196613 | Introduce table of content | Ericsson India Private Limited | withdrawn | - | - |
| S5-196614 | pCR 28.535 Add introduction to concepts and background | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196474 | - |
| S5-196615 | Add lifecycle of a communication service | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196476 | - |
| S5-196616 | Rel-16 CR TS 28.533 Update Clause A.7 Utilization of management data analystic services | Huawei | withdrawn | - | - |
| S5-196617 | 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 |
| S5-196618 | Draft TS 28.535 | Ericsson | approved | - | - |
| S5-196619 | Communication service assurance business use case and requirements | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196481 | - |
| S5-196620 | Rel-16 CR 28.541 Add relation of GST and profiles | Huawei, China Mobile | revised | S5-196345 | S5-196867 |
| S5-196621 | Rel-15 CR 32.291 Add the QNC support | Huawei | agreed | S5-196112 | - |
| S5-196622 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | agreed | S5-196066 | - |
| S5-196623 | Rel-16 CR 32.291 Clarify the QoS change trigger | Huawei | agreed | S5-196113 | - |
| S5-196624 | Rel-15 CR 32.255 correction of PCC rules description | Huawei | agreed | S5-196068 | - |
| S5-196625 | Rel-16 CR 32.255 correction of PCC rules description | Huawei | agreed | S5-196115 | - |
| S5-196626 | Rel-15 CR 32.290 Correction of notify response | Huawei | not pursued | S5-196070 | - |
| S5-196627 | Rel-16 CR 32.290 Correction of notify response | Huawei | not pursued | S5-196117 | - |
| S5-196628 | Rel-15 CR 32.291 Correction of notify response | Huawei | not pursued | S5-196071 | - |
| S5-196629 | Rel-16 CR 32.291 Correction of notify response | Huawei | not pursued | S5-196118 | - |
| S5-196630 | Rel-15 CR 32.291 Correction of ChargingDataResponse description | Huawei | not pursued | S5-196072 | - |
| S5-196631 | Rel-16 CR 32.291 Correction of ChargingDataResponse description | Huawei | not pursued | S5-196119 | - |
| S5-196632 | Rel-15 CR 32.290 Correction of ChargingNotifyResponse description | Huawei | agreed | - | - |
| S5-196633 | Rel-16 CR 32.290 Correction of ChargingNotifyResponse description | Huawei | agreed | - | - |
| S5-196634 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | agreed | S5-196073 | - |
| S5-196635 | Rel-16 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | agreed | S5-196120 | - |
| S5-196636 | Rel-15 CR 32.255 Correction of reportTime | Huawei | agreed | S5-196074 | - |
| S5-196637 | Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | agreed | S5-196075 | - |
| S5-196638 | Rel-16 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | agreed | S5-196122 | - |
| S5-196639 | Rel-15 CR 32.255 Add the sponsor based charging | Huawei | agreed | S5-196077 | - |
| S5-196640 | Rel-16 CR 32.255 Add the sponsor based charging | Huawei | agreed | S5-196124 | - |
| S5-196641 | Rel-16 CR TS 28.540 Add GSMA GST mapping related requirements | Huawei, China Mobile,Nokia | agreed | S5-196342 | - |
| S5-196642 | Rel-16 CR TS 28.541 Update on slice model | Huawei, China Mobile, Nokia, Nokia Shanghai Bell | conditionally agreed | S5-196343 | - |
| S5-196643 | Add generic characters of GST in slice NRM - stage 2 | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-196644 | Update CoverageArea attribute in service profile - stage 2 | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-196645 | Draft TS 28.310 | Orange | approved | - | - |
| S5-196646 | Update Intra-RAT energy saving scenario with distributed decision-making | Nokia | revised | S5-196185 | S5-196831 |
| S5-196647 | pCR 28.310 Add requirements for energy saving cell overlaid cases | Huawei, Orange | approved | S5-196348 | - |
| S5-196648 | Update use case on Automatic Cell Clustering for Energy Management | Nokia | not treated | - | - |
| S5-196649 | pCR 28.310 Add overview for various energy saving solutions | Huawei, Orange | approved | S5-196351 | - |
| S5-196650 | Add Rollback operation to intent Lifecycle management | Nokia | approved | S5-196186 | - |
| S5-196651 | pCR 28.812 Add intent driven coverage optimization scenario | Huawei | revised | S5-196206 | S5-196833 |
| S5-196652 | Draft TR 28.812 | Huawei | approved | - | - |
| S5-196653 | pCR 28.812 Add the description of MnS component type C in the concept | Huawei | approved | S5-196210 | - |
| S5-196654 | pCR 28.812 Add the relation between IDMS and SON | Huawei | revised | S5-196211 | S5-196835 |
| S5-196655 | Revised WID network policy management for mobile networks based on NFV scenarios | China Mobile Com. Corporation | revised | S5-196273 | S5-196834 |
| S5-196656 | pCR 28.311 Add Information Object Classes | China Mobile Com. Corporation | noted | S5-196274 | - |
| S5-196657 | Discussion on choices for 28.311 Solution Set | China Mobile Com. Corporation | noted | S5-196533 | - |
| S5-196658 | pCR 28.311 Add Solution Set(SS)definitions | China Mobile Com. Corporation | approved | S5-196276 | - |
| S5-196659 | pCR 28.311 Add XML definition | China Mobile Com. Corporation | noted | S5-196277 | - |
| S5-196660 | pCR 28.311 Add SOAP Solution Set | China Mobile Com. Corporation | noted | S5-196278 | - |
| S5-196661 | DP Way forward of KPI reporting related MnS | ZTE Corporation, China Telecom | endorsed | S5-196376 | - |
| S5-196662 | Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | China Telecommunications, ZTE | revised | S5-196389 | S5-196853 |
| S5-196663 | Rel-16 CR TS 28.550 Add UC and requirements for NSSI KPI job control | China Telecommunications, ZTE | withdrawn | - | - |
| S5-196664 | pCR 28.808 Editorial corrections and requirement removals | TNO | approved | S5-196441 | - |
| S5-196665 | pCR 28.808 Add use case for creation of a network slice instance associated with a Satellite RAN and a Terrestrial RAN | TNO | approved | S5-196443 | - |
| S5-196666 | pCR 28.812 Update Intent Driven Object | Huawei | approved | S5-196212 | - |
| S5-196667 | Discussion paper about exposure governance | Huawei | revised | S5-196287 | S5-196855 |
| S5-196668 | Draft TS 28.405 | Ericsson | approved | - | - |
| S5-196669 | Draft TS 28.406 | Ericsson | approved | - | - |
| S5-196670 | pCR 28.812 Add solution for Intent driven NSI performance assurance scenario | Huawei | noted | S5-196208 | - |
| S5-196671 | draft TS 28313-000 | Intel Corporation (UK) Ltd | approved | S5-196192 | - |
| S5-196672 | pCR 28.313 skeleton | Intel Corporation (UK) Ltd | approved | S5-196194 | - |
| S5-196673 | Organizing Self Organizing Specifications | Ericsson France S.A.S | endorsed | S5-196414 | - |
| S5-196674 | pCR 28.313 introduction and scope | Intel Corporation (UK) Ltd | approved | S5-196196 | - |
| S5-196675 | pCR 28.313 concepts | Huawei, Intel, China Telecommunications, Ericsson | approved | S5-196198 | - |
| S5-196676 | Rel-15 32.255 Correction of Unit Count Inactivity Timer | Huawei | agreed | S5-196078 | - |
| S5-196677 | Rel-16 32.255 Correction of Unit Count Inactivity Timer | Huawei | agreed | S5-196125 | - |
| S5-196678 | Rel-15 CR 32.298 Correction of Correction of Network Function ID | Ericsson | agreed | S5-196378 | - |
| S5-196679 | Rel-15 CR 32.298 Correction of Correction of Network Function ID | Ericsson | agreed | - | - |
| S5-196680 | Rel-15 32.298 Correction of ASN.1 AMFID | Huawei | agreed | S5-196102 | - |
| S5-196681 | Rel-15 CR 32.290 Add clarifications to failure handling | Huawei | agreed | S5-196150 | - |
| S5-196682 | Rel-16 CR 32.290 Add clarifications to failure handling | Huawei | agreed | S5-196149 | - |
| S5-196683 | Rel-15 CR 32.274 Addition of Post Event Charging flows | Nokia, Nokia Shanghai Bell | agreed | S5-196254 | - |
| S5-196684 | Rel-15 CR 32.274 Clarify CHF selection via NRF and roaming | Nokia, Nokia Shanghai Bell | agreed | S5-196258 | - |
| S5-196685 | Rel-15 CR 32.274 Correction of Multiple Unit Information | Nokia, Nokia Shanghai Bell | agreed | S5-196259 | - |
| S5-196686 | Rel-15 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | agreed | S5-196260 | - |
| S5-196687 | Rel-16 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | agreed | S5-196261 | - |
| S5-196688 | Draft TR 32.845 | Huawei | approved | - | - |
| S5-196689 | Rel-16 CR 32.291 Correction on OpenAPI for usedunitcontainer | Huawei | agreed | S5-196130 | - |
| S5-196690 | Rel-16 CR 32.255 Correction of Interworking flow | Huawei | agreed | S5-196148 | - |
| S5-196691 | Rel-16 CR 32.291 Add Retransmission IE for alignment with TS 32.290 | Nokia, Nokia Shanghai Bell | agreed | S5-196257 | - |
| S5-196692 | Rel-16 CR 32.290 Clarify Retransmission IE | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-196693 | Rel-16 CR 32.290 Explanation of when Units Usage must be reported | Ericsson | agreed | S5-196368 | - |
| S5-196694 | Rel-16 CR 32.290 Explanation of Units Usage in Initial | Ericsson | agreed | S5-196369 | - |
| S5-196695 | Rel-16 CR 32.255 Correction of QoS Based Charging description | Ericsson | agreed | S5-196373 | - |
| S5-196696 | pCR 28.313 RACH optimization use case | Intel Corporation (UK) Ltd,Ericsson | approved | S5-196199 | - |
| S5-196697 | pCR 28.313 RACH optimization procedure | Intel Corporation (UK) Ltd,Ericsson | approved | S5-196201 | - |
| S5-196698 | pCR 28.313 RACH optimization information | Intel Corporation (UK) Ltd,Ericsson | approved | S5-196202 | - |
| S5-196699 | Extensions to PCF and UPF IOCs for support of TSC (Time Sensitive Communication) | Nokia | agreed | S5-196187 | - |
| S5-196700 | Update Stage 2 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | revised | S5-196455 | S5-196843 |
| S5-196701 | Add State Handling diagram for NF service | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-196702 | Add Stage 2 SCP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | agreed | S5-196459 | - |
| S5-196703 | Add Stage 2 NEF definition in 5GC NRM | Nokia, Nokia Shanghai Bell | agreed | S5-196457 | - |
| S5-196704 | Support communication model in 5GC NF - Stage 2 | Nokia, Nokia Shanghai Bell | agreed | S5-196461 | - |
| S5-196705 | Request email approval of Stage 3 YANG solution set | Ericsson | noted | - | - |
| S5-196706 | Shadow TS for Heartbeat Stage 1 | AT&T, Deutsche Telekom, Orange | revised | S5-196050 | S5-196813 |
| S5-196707 | Discussion paper on Heartbeat MnS specification approach | AT&T GNS Belgium SPRL | endorsed | S5-196477 | - |
| S5-196708 | Rel-16 CR TS 32.421 Addition of streaming trace requirements | Nokia | agreed | S5-196487 | - |
| S5-196709 | pCR 28.807 clean-up use case of NPN provisioning by a network slice of a PLMN | Huawei | approved | S5-196353 | - |
| S5-196710 | pCR 28.807 Update on general concept | Huawei | approved | S5-196352 | - |
| S5-196711 | pCR 28.807 Management of stand-alone non-public networks | Huawei | approved | S5-196354 | - |
| S5-196712 | pCR 28.807 Management of public network integrated NPN | Huawei | approved | S5-196355 | - |
| S5-196713 | pCR TR 28.807 Roles related to NPN management | TELEFONICA S.A. | approved | S5-196245 | - |
| S5-196714 | Rel-16 CR 32.255 Definition of Emergency Session handling | Ericsson | agreed | S5-196374 | - |
| S5-196715 | Rel-16 CR 32.255 Missing default trigger for Offline only | Ericsson | agreed | S5-196377 | - |
| S5-196716 | Rel-16 CR 32.291 Correction of yaml | Ericsson | agreed | S5-196379 | - |
| S5-196717 | Rel-16 CR 32.290 Correction of Converged Charging principles | Ericsson | agreed | S5-196382 | - |
| S5-196718 | Rel-16 CR 32.291 Correction of pDUSessionChargingInformation | Ericsson | agreed | S5-196383 | - |
| S5-196719 | Rel-16 CR 32.298 Correction of missing otherQutaType in sMFTrigger | Ericsson | agreed | S5-196415 | - |
| S5-196720 | Correction of missing otherQutaType in sMFTrigger | Ericsson | agreed | - | - |
| S5-196721 | Rel-15 CR 32.291 Correction of nfIdentification in yaml | Ericsson | agreed | S5-196526 | - |
| S5-196722 | Rel-15 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | agreed | S5-196534 | - |
| S5-196723 | Rel-16 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | agreed | S5-196535 | - |
| S5-196724 | Rel-16 CR 32.255 Add charging requirement for I-SMF | Huawei | agreed | S5-196139 | - |
| S5-196725 | Rel-16 CR 32.255 Add charging principle for I-SMF | Huawei | agreed | S5-196140 | - |
| S5-196726 | Rel-16 CR 32.255 Add charging trigger conditions for I-SMF | Huawei | agreed | S5-196141 | - |
| S5-196727 | Rel-16 CR 32.255 Add I-SMF PDU session charging information | Huawei | agreed | S5-196142 | - |
| S5-196728 | Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging information | Ericsson | agreed | S5-196431 | - |
| S5-196729 | Rel-16 CR 32.255 Adding I-SMF in PDU Session Charging message flow | Ericsson | agreed | S5-196493 | - |
| S5-196730 | Rel-16 CR 32.255 Add the QoS Characteristics | Huawei | agreed | S5-196109 | - |
| S5-196731 | Rel-16 CR 32.291 Add the QoS Characteristics | Huawei | agreed | S5-196110 | - |
| S5-196732 | Rel-15 32.298 Correction of ASN.1 userLocationInformation | Huawei | agreed | S5-196103 | - |
| S5-196733 | Rel-16 32.298 Correction of ASN.1 userLocationInformation | Huawei | agreed | S5-196128 | - |
| S5-196734 | UC Deployment of a stand-alone NPN with 3GPP and non-3GPP segments | TELEFONICA S.A. | approved | S5-196322 | - |
| S5-196735 | pCR 28.807 Add use case of NPN provisioning by a stand-alone non-public network | Huawei | withdrawn | - | - |
| S5-196736 | pCR 28.807 Add use case of providing traffic management and monitoring capability to an NPN operator | Huawei | approved | S5-196358 | - |
| S5-196737 | pCR 28.807 Add requirements for management of public network integrated NPN | Huawei | approved | S5-196357 | - |
| S5-196738 | Draft TR 28.810 | China Mobile | approved | - | - |
| S5-196739 | pCR 28.810 Add background | China Mobile, Huawei | revised | S5-196324 | S5-196878 |
| S5-196740 | pCR 28.810 Add scope | China Mobile, Huawei | approved | S5-196325 | - |
| S5-196741 | Add scope | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196486 | - |
| S5-196742 | Add introduction | Ericsson India Private Limited,Deutsche Telekom | approved | S5-196484 | - |
| S5-196743 | Draft TS 28.536 | Ericsson | approved | - | - |
| S5-196744 | Introduce table of content | Ericsson India Private Limited | approved | S5-196490 | - |
| S5-196745 | Way of working for translation of GSMA GST/NEST | Ericsson | not treated | - | - |
| S5-196746 | pCR 28.313 MRO use case | Intel Corporation (UK) Ltd | revised | S5-196203 | S5-196857 |
| S5-196747 | pCR 28.313 MRO procedure | Intel Corporation (UK) Ltd,Ericsson | approved | S5-196204 | - |
| S5-196748 | Rel-16 CR TS 28.550 Add KPI job control service | ZTE Corporation, China Telecom | agreed | S5-196409 | - |
| S5-196749 | pCR 28.313 MRO information | Intel Corporation (UK) Ltd | revised | S5-196205 | S5-196858 |
| S5-196750 | pCR 28.313 Add MRO use cases and requriements | HUAWEI TECHNOLOGIES Co. Ltd. | not treated | S5-196313 | - |
| S5-196751 | pCR 28.313 Add PCI configuration use case and requirements | HUAWEI TECHNOLOGIES Co. Ltd. | not treated | S5-196310 | - |
| S5-196752 | pCR Add skeleton of draft TR 28.809 | Intel Finland Oy | approved | S5-196326 | - |
| S5-196753 | Rel-16 CR TS 28.530 Add concept descritipn for tenant information | Huawei | agreed | S5-196289 | - |
| S5-196754 | Rel-16 CR TS 28.533 Add concept descritipn for management capabiliy | Huawei | agreed | S5-196290 | - |
| S5-196755 | Rel-16 CR TS 28.550 Performance management service enhancement for tenant supporting | Huawei | agreed | S5-196293 | - |
| S5-196756 | Rel-16 CR TS 28.552 Performance measurement extension to support multiple tenants environment | Huawei | agreed | S5-196294 | - |
| S5-196757 | LS to GSMA on GST | Orange | revised | - | S5-196868 |
| S5-196758 | Rel-15 CR TS 28.532 Correct provisioning management service | Huawei,Orange | agreed | S5-196227 | - |
| S5-196759 | Rel-16 CR TS 28.532 Correct provisioning management service | Huawei,Orange | agreed | S5-196228 | - |
| S5-196760 | Rel-15 CR TS 28.532 Correct fault supervision management service | Huawei | revised | S5-196229 | S5-196823 |
| S5-196761 | Rel-16 CR TS 28.532 Correct fault supervision management service | Huawei | revised | S5-196230 | S5-196824 |
| S5-196762 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | revised | S5-196231 | S5-196825 |
| S5-196763 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | revised | S5-196232 | S5-196826 |
| S5-196764 | LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations | ETSI TC LI | postponed | - | - |
| S5-196765 | LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework | HUAWEI TECHNOLOGIES Co. Ltd. | approved | S5-196572 | - |
| S5-196766 | (reserved) | Charging SWG | withdrawn | - | - |
| S5-196767 | (reserved) | Charging SWG | withdrawn | - | - |
| S5-196768 | (reserved) | Charging SWG | withdrawn | - | - |
| S5-196769 | pCR 28.310 solution for energy saving | Intel Corporation (UK) Ltd | approved | S5-196191 | - |
| S5-196770 | Rel-16 CR TS 28.554 Add 5G Energy Efficiency KPI | Huawei, Orange | agreed | S5-196346 | - |
| S5-196771 | LS to RAN3 on energy efficiency of 5G | Orange | approved | S5-196054 | - |
| S5-196772 | Rel-16 CR 28.552 Add measurements related to QoS flow setup via untrusted non-3GPP access | Intel Finland Oy | agreed | S5-196339 | - |
| S5-196773 | Rel-16 CR 28.552 Add measurements related to QoS flow modification via untrusted non-3GPP access | Intel Finland Oy | agreed | S5-196340 | - |
| S5-196774 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS via N26 interface | Intel Finland Oy | agreed | S5-196341 | - |
| S5-196775 | Rel-16 CR TS 28.550 add clarification of the NSI and NSSI performance assurance | Huawei Telecommunication India | withdrawn | - | - |
| S5-196776 | Rel-16 CR TS 28.552 Re-orgnize the structure of TS 28.552 | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196411 | - |
| S5-196777 | Discussion on URI dynamic discovery | Huawei | not treated | S5-196284 | - |
| S5-196778 | Rel-16 CR TS 28.533 Obtaining URI of MnS instance | Huawei | not pursued | S5-196285 | - |
| S5-196779 | Rel-16 CR TS 28.532 MnS instance URI discovery | Huawei | not treated | S5-196286 | - |
| S5-196780 | Rel-16 CR TS 28.540 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196307 | S5-196842 |
| S5-196781 | Rel-16 CR TS 28.530 Clean up for incosistence | Huawei | agreed | S5-196218 | - |
| S5-196782 | Rel-16 CR TS 28.531 Clean up for incosistence | Huawei | agreed | S5-196219 | - |
| S5-196783 | Discussion on the effect to existed 5G management system when introduced 5G SLA | China Mobile E-Commerce Co. | endorsed | S5-196403 | - |
| S5-196784 | Add a new description of KPI that related to Mean number of successful periodic registration updates | China Mobile E-Commerce Co. | agreed | S5-196390 | - |
| S5-196785 | Add a new description of KPI that related to successful rate of mobility registration updates of Single Network Slice Instance | China Mobile E-Commerce Co. | agreed | S5-196392 | - |
| S5-196786 | CR Rel-16 TR 28.806 Implementation of fixes for issues identified by EditHelp | Nokia | agreed | S5-196472 | - |
| S5-196787 | Rel-15 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | agreed | S5-196188 | - |
| S5-196788 | Rel-16 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | agreed | S5-196189 | - |
| S5-196789 | CR 28.622 Add heartbeat NRM fragment | Nokia, Nokia Shanghai Bell,AT&T, Deutsche Telekom, Orange | withdrawn | - | - |
| S5-196790 | Rel-16 CR 28.623 Introduce Stage 3 for configurable heartbeat | AT&T, Deutsche Telekom, Orange | withdrawn | - | - |
| S5-196791 | Add YANG/Netconf-based solution set for Generic provisioning MnS | Ericsson LM,Huawei | not pursued | S5-196449 | - |
| S5-196792 | LS on 3GPP – ONAP Cooperation & WoW | Ericsson Telecomunicazioni SpA | approved | S5-196507 | - |
| S5-196793 | Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | Huawei,ZTE, China Telecom | not pursued | S5-196169 | - |
| S5-196794 | pCR 28.313 Add ANR Use Case: Start | Ericsson France S.A.S | revised | S5-196418 | S5-196860 |
| S5-196795 | pCR 28.313 Add ANR Use Case: Stop | Ericsson France S.A.S | revised | S5-196419 | S5-196861 |
| S5-196796 | pCR 28.313 Add ANR Use Case: Notification | Ericsson France S.A.S | revised | S5-196420 | S5-196862 |
| S5-196797 | pCR 28.313 Add ANR Use Case: Handover whitelisting | Ericsson France S.A.S | revised | S5-196421 | S5-196863 |
| S5-196798 | pCR 28.313 Add ANR Use Case: Handover blacklisting | Ericsson France S.A.S | revised | S5-196422 | S5-196864 |
| S5-196799 | pCR 28.313 Add ANR Use Case: Prohibit X2/Xn | Ericsson France S.A.S | revised | S5-196423 | S5-196865 |
| S5-196800 | pCR 28.313 Add ANR Use Case: Prohibit X2/Xn handover | Ericsson France S.A.S | revised | S5-196424 | S5-196866 |
| S5-196801 | pCR 28.313 Add ANR management use case and requirements | HUAWEI TECHNOLOGIES Co. Ltd. | withdrawn | - | - |
| S5-196802 | pCR 28.313 ANR Business level requirements | Ericsson France S.A.S | approved | S5-196319 | - |
| S5-196803 | pCR 28.313 ANR Specification level requirements for NR RAN | Ericsson France S.A.S | approved | S5-196320 | - |
| S5-196804 | pCR 28.313 ANR Specification level requirements for E-UTRAN | Ericsson France S.A.S | noted | S5-196321 | - |
| S5-196805 | Rel-11 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196299 | S5-196882 |
| S5-196806 | Rel-12 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196300 | S5-196883 |
| S5-196807 | Rel-13 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196301 | S5-196884 |
| S5-196808 | Rel-14 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196302 | S5-196885 |
| S5-196809 | Rel-15 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | revised | S5-196303 | S5-196886 |
| S5-196810 | Rel-16 CR TS 28.541 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | not treated | S5-196306 | - |
| S5-196811 | LS to SA on GSMA GST/NEST translation | Ericsson | revised | - | S5-196891 |
| S5-196812 | pCR Add overview for MDA | Intel Finland Oy | approved | S5-196327 | - |
| S5-196813 | Shadow TS for Heartbeat Stage 1 | AT&T, Deutsche Telekom, Orange | approved | S5-196706 | - |
| S5-196814 | Add UC on coverage issue analysis | Intel Finland Oy | revised | S5-196330 | S5-196877 |
| S5-196815 | pCR 28.535 on MDAS assisted coverage performance assuranace | HUAWEI TECHNOLOGIES Co. Ltd. | merged | S5-196271 | S5-196877 |
| S5-196816 | pCR 28.809 Add use case of MDAS assisted user data congestion analysis | Huawei | revised | S5-196442 | S5-196876 |
| S5-196817 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS | Intel Finland Oy | agreed | S5-196335 | - |
| S5-196818 | Allow for service-centric load redistribution to concurrently optimize load distribution and service performance | Nokia | revised | S5-196176 | S5-196870 |
| S5-196819 | Reply to: Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management | Huawei | approved | S5-196581 | - |
| S5-196820 | Extend the usecase to allow for PCI optimization in multi-layer scenarios | Nokia | revised | S5-196177 | S5-196871 |
| S5-196821 | Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis | Nokia | revised | S5-196580 | S5-196879 |
| S5-196822 | Rel-16 CR 28.532 RESTful CM notifications for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | agreed | S5-196048 | - |
| S5-196823 | Rel-15 CR TS 28.532 Correct fault supervision management service | Huawei | agreed | S5-196760 | - |
| S5-196824 | Rel-16 CR TS 28.532 Correct fault supervision management service | Huawei | agreed | S5-196761 | - |
| S5-196825 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | agreed | S5-196762 | - |
| S5-196826 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | agreed | S5-196763 | - |
| S5-196827 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | agreed | S5-196594 | - |
| S5-196828 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | agreed | S5-196595 | - |
| S5-196829 | Extend the usecase to allow for PCI optimization in multi-layer scenarios | Nokia | withdrawn | - | - |
| S5-196830 | Chair notes on OAM sessions | WG Chair | noted | - | - |
| S5-196831 | Update Intra-RAT energy saving scenario with distributed decision-making | Nokia | not treated | S5-196646 | - |
| S5-196832 | Draft TS 28.311 | China Mobile | approved | - | - |
| S5-196833 | pCR 28.812 Add intent driven coverage optimization scenario | Huawei | approved | S5-196651 | - |
| S5-196834 | Revised WID network policy management for mobile networks based on NFV scenarios | China Mobile Com. Corporation | noted | S5-196655 | - |
| S5-196835 | pCR 28.812 Add the relation between IDMS and SON | Huawei | not treated | S5-196654 | - |
| S5-196836 | Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30 | Nokia Solutions & Networks (I) | agreed | S5-196606 | - |
| S5-196837 | Add new measurements related to QoS Flow Setup via Initial Context Setup | Nokia Solutions & Networks (I) | agreed | S5-196607 | - |
| S5-196838 | Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2 | Nokia Solutions & Networks (I) | agreed | S5-196608 | - |
| S5-196839 | Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | withdrawn | - | - |
| S5-196840 | LS to RAN3 on QoS monitoring for URLLC | Intel Finland Oy | approved | S5-196334 | - |
| S5-196841 | Reply to: LS on alignment between SA5 and RAN2 on L2 measurements | Intel | approved | S5-196604 | - |
| S5-196842 | Rel-16 CR TS 28.540 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196780 | - |
| S5-196843 | Update Stage 2 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | not treated | S5-196700 | - |
| S5-196844 | Minutes of Closed loop SLS Assurance | Rapporteur (Ericsson) | noted | S5-196029 | - |
| S5-196845 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | conditionally agreed | S5-196600 | - |
| S5-196846 | Update requirements for Load Balancing Optimization to allow for service centric resource optimization | Nokia | revised | S5-196184 | S5-196872 |
| S5-196847 | Rel-16 CR TS 28.541 Correct XML Solution Set for NR | Huawei | agreed | S5-196235 | - |
| S5-196848 | Rel-16 CR TS 28.623 Correct XML Solution Set for generic NRM | Huawei | agreed | S5-196237 | - |
| S5-196849 | Rel-16 CR TS 28.541 Correct Network slice NRM | Huawei,Ericsson | agreed | S5-196236 | - |
| S5-196850 | Rel-16 CR TS 28.533 Add the description of data analytics utilization in closed loop SLA assurance | HUAWEI TECHNOLOGIES Co. Ltd. | not treated | S5-196617 | - |
| S5-196851 | Draft TS 28.535 | Ericsson | withdrawn | - | - |
| S5-196852 | Draft TS 28.536 | Ericsson | withdrawn | - | - |
| S5-196853 | Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | China Telecommunications, ZTE | not treated | S5-196662 | - |
| S5-196854 | New WID network policy management for 5G mobile networks based on NFV scenarios | China Mobile Com. Corporation | revised | S5-196582 | S5-196880 |
| S5-196855 | Discussion paper about exposure governance | Huawei | revised | S5-196667 | S5-196887 |
| S5-196856 | Draft TS 28.313 | Intel | approved | - | - |
| S5-196857 | pCR 28.313 MRO use case | Intel Corporation (UK) Ltd,Ericsson | approved | S5-196746 | - |
| S5-196858 | pCR 28.313 MRO information | Intel Corporation (UK) Ltd | approved | S5-196749 | - |
| S5-196859 | ANR Specification level requirements for E-UTRAN | Ericsson France S.A.S | agreed | - | - |
| S5-196860 | pCR 28.313 Add ANR Use Case: Start | Ericsson France S.A.S | approved | S5-196794 | - |
| S5-196861 | pCR 28.313 Add ANR Use Case: Stop | Ericsson France S.A.S | approved | S5-196795 | - |
| S5-196862 | pCR 28.313 Add ANR Use Case: Notification | Ericsson France S.A.S | approved | S5-196796 | - |
| S5-196863 | pCR 28.313 Add ANR Use Case: Handover whitelisting | Ericsson France S.A.S | approved | S5-196797 | - |
| S5-196864 | pCR 28.313 Add ANR Use Case: Handover blacklisting | Ericsson France S.A.S | approved | S5-196798 | - |
| S5-196865 | pCR 28.313 Add ANR Use Case: Prohibit X2/Xn | Ericsson France S.A.S | approved | S5-196799 | - |
| S5-196866 | pCR 28.313 Add ANR Use Case: Prohibit X2/Xn handover | Ericsson France S.A.S | approved | S5-196800 | - |
| S5-196867 | Rel-16 CR 28.541 Add relation of GST and profiles | Huawei, China Mobile | agreed | S5-196620 | - |
| S5-196868 | LS to GSMA on GST | Orange | approved | S5-196757 | - |
| S5-196869 | Draft TR 28.861 | Intel | withdrawn | - | - |
| S5-196870 | Allow for service-centric load redistribution to concurrently optimize load distribution and service performance | Nokia | noted | S5-196818 | - |
| S5-196871 | Extend the usecase to allow for PCI optimization in multi-layer scenarios | Nokia | noted | S5-196820 | - |
| S5-196872 | Update requirements for Load Balancing Optimization to allow for service centric resource optimization | Nokia | noted | S5-196846 | - |
| S5-196873 | Draft TR 28.807 | Huawei | approved | - | - |
| S5-196874 | Draft TR 28.808 | Thales | approved | - | - |
| S5-196875 | Draft TR 28.809 | Intel | approved | - | - |
| S5-196876 | pCR 28.809 Add use case of MDAS assisted user data congestion analysis | Huawei | approved | S5-196816 | - |
| S5-196877 | Add UC on coverage issue analysis | Intel Finland Oy,Huawei | approved | S5-196814 | - |
| S5-196878 | pCR 28.810 Add background | China Mobile, Huawei | approved | S5-196739 | - |
| S5-196879 | Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis | Nokia | approved | S5-196821 | - |
| S5-196880 | New WID network policy management for 5G mobile networks based on NFV scenarios | China Mobile Com. Corporation | agreed | S5-196854 | - |
| S5-196881 | New SID on network slice management enhancements | Huawei | agreed | S5-196583 | - |
| S5-196882 | Rel-11 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196805 | - |
| S5-196883 | Rel-12 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196806 | - |
| S5-196884 | Rel-13 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196807 | - |
| S5-196885 | Rel-14 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196808 | - |
| S5-196886 | Rel-15 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | agreed | S5-196809 | - |
| S5-196887 | Discussion paper about exposure governance | Huawei | endorsed | S5-196855 | - |
| S5-196888 | Remove Network Slicing SS | Ericsson | agreed | - | - |
| S5-196889 | Updates to YANG SS | Ericsson | agreed | - | - |
| S5-196890 | Updates to YANG SS | Ericsson | agreed | - | - |
| S5-196891 | LS to SA on GSMA GST/NEST translation | Ericsson | approved | S5-196811 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-196366 | Revise the Introduction | Nanjing Ericsson Panda Com Ltd | 28.404 | 0001 | - | Rel-16 | F | QOED | agreed |
| S5-196218 | Rel-16 CR TS 28.530 Clean up for incosistence | Huawei | 28.530 | 0010 | - | Rel-16 | F | NETSLICE,TEI16 | revised |
| S5-196781 | Rel-16 CR TS 28.530 Clean up for incosistence | Huawei | 28.530 | 0010 | 1 | Rel-16 | F | NETSLICE,TEI16 | agreed |
| S5-196289 | Rel-16 CR TS 28.530 Add concept descritipn for tenant information | Huawei | 28.530 | 0011 | - | Rel-16 | B | MEMTANE | revised |
| S5-196753 | Rel-16 CR TS 28.530 Add concept descritipn for tenant information | Huawei | 28.530 | 0011 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-196188 | Rel-15 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | 28.531 | 0031 | - | Rel-15 | F | NETSLICE-PRO\_NS | revised |
| S5-196787 | Rel-15 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | 28.531 | 0031 | 1 | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-196189 | Rel-16 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | 28.531 | 0032 | - | Rel-16 | A | NETSLICE-PRO\_NS | revised |
| S5-196788 | Rel-16 CR TS 28.531 fix inconsistencies in feasibility check use cases and requirements | Nokia | 28.531 | 0032 | 1 | Rel-16 | A | NETSLICE-PRO\_NS | agreed |
| S5-196219 | Rel-16 CR TS 28.531 Clean up for incosistence | Huawei | 28.531 | 0033 | - | Rel-16 | F | TEI16,NETSLICE-PRO\_NS | revised |
| S5-196782 | Rel-16 CR TS 28.531 Clean up for incosistence | Huawei | 28.531 | 0033 | 1 | Rel-16 | F | TEI16,NETSLICE-PRO\_NS | agreed |
| S5-196578 | Update allocation and deallocation specification due to new NRM fragment for resource allocation and deallocation | Nokia | 28.531 | 0034 | - | Rel-16 | C | eNRM | not pursued |
| S5-196048 | Rel-16 CR 28.532 RESTful CM notifications for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | 28.532 | 0055 | - | Rel-16 | B | ONAP3GPP | revised |
| S5-196822 | Rel-16 CR 28.532 RESTful CM notifications for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | 28.532 | 0055 | 1 | Rel-16 | B | ONAP3GPP | agreed |
| S5-196049 | Rel-16 CR 28.532 RESTful PM file-based notifications for integration with ONAP VES | AT&T, Deutsche Telekom, Orange | 28.532 | 0056 | - | Rel-16 | B | ONAP3GPP | not pursued |
| S5-196051 | Rel-16 CR 28.532 Heartbeat MnS | AT&T, Deutsche Telekom, Orange | 28.532 | 0057 | - | Rel-16 | B | ONAP3GPP | merged |
| S5-196227 | Rel-15 CR TS 28.532 Correct provisioning management service | Huawei | 28.532 | 0058 | - | Rel-15 | F | NETSLICE | revised |
| S5-196758 | Rel-15 CR TS 28.532 Correct provisioning management service | Huawei,Orange | 28.532 | 0058 | 1 | Rel-15 | F | NETSLICE | agreed |
| S5-196228 | Rel-16 CR TS 28.532 Correct provisioning management service | Huawei | 28.532 | 0059 | - | Rel-16 | A | NETSLICE | revised |
| S5-196759 | Rel-16 CR TS 28.532 Correct provisioning management service | Huawei,Orange | 28.532 | 0059 | 1 | Rel-16 | A | NETSLICE | agreed |
| S5-196229 | Rel-15 CR TS 28.532 Correct fault supervision management service | Huawei | 28.532 | 0060 | - | Rel-15 | F | NETSLICE | revised |
| S5-196760 | Rel-15 CR TS 28.532 Correct fault supervision management service | Huawei | 28.532 | 0060 | 1 | Rel-15 | F | NETSLICE | revised |
| S5-196823 | Rel-15 CR TS 28.532 Correct fault supervision management service | Huawei | 28.532 | 0060 | 2 | Rel-15 | F | NETSLICE | agreed |
| S5-196230 | Rel-16 CR TS 28.532 Correct fault supervision management service | Huawei | 28.532 | 0061 | - | Rel-16 | A | NETSLICE | revised |
| S5-196761 | Rel-16 CR TS 28.532 Correct fault supervision management service | Huawei | 28.532 | 0061 | 1 | Rel-16 | A | NETSLICE | revised |
| S5-196824 | Rel-16 CR TS 28.532 Correct fault supervision management service | Huawei | 28.532 | 0061 | 2 | Rel-16 | A | NETSLICE | agreed |
| S5-196238 | Rel-16 CR TS 28.532 Add RESTful HTTP-based solution set of file-based performance assurance for integration with ONAP VES | Huawei | 28.532 | 0062 | - | Rel-16 | B | ONAP3GPP | withdrawn |
| S5-196239 | Rel-16 CR TS 28.532 Add Netconf-based solution set of provisioning MnS | Huawei | 28.532 | 0063 | - | Rel-16 | B | ONAP3GPP | merged |
| S5-196286 | Rel-16 CR TS 28.532 MnS instance URI discovery | Huawei | 28.532 | 0064 | - | Rel-17 | B | 5GDMS | revised |
| S5-196779 | Rel-16 CR TS 28.532 MnS instance URI discovery | Huawei | 28.532 | 0064 | 1 | Rel-17 | B | 5GDMS | not treated |
| S5-196288 | Rel-16 CR TS 28.532 Add stage 2 and stage 3 definition for MnS capability query | Huawei | 28.532 | 0065 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-196316 | Rel-15 CR 28.532 Corrections to provisioning MnS notification definitions (Stage 2) | Orange | 28.532 | 0066 | - | Rel-15 | F | NETSLICE | merged |
| S5-196317 | Rel-16 CR 28.532 Corrections to provisioning MnS notification definitions (Stage 2) | Orange | 28.532 | 0067 | - | Rel-16 | A | NETSLICE | merged |
| S5-196367 | Add missing definition for matching-criteria-attributes | Ericsson LM | 28.532 | 0068 | - | Rel-16 | F | NETSLICE-5GNRM | revised |
| S5-196599 | Add missing definition for matching-criteria-attributes | Ericsson LM | 28.532 | 0068 | 1 | Rel-16 | F | TEI16,NETSLICE-5GNRM | not treated |
| S5-196439 | CR 28.532 Make scoping and filtering optional in the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0069 | - | Rel-16 | F | TEI16,REST\_SS | not pursued |
| S5-196449 | Add YANG/Netconf-based solution set for Generic provisioning MnS | Ericsson LM | 28.532 | 0070 | - | Rel-16 | F | NETSLICE-5GNRM | revised |
| S5-196791 | Add YANG/Netconf-based solution set for Generic provisioning MnS | Ericsson LM,Huawei | 28.532 | 0070 | 1 | Rel-16 | F | NETSLICE-5GNRM | not pursued |
| S5-196451 | CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | Nokia, Nokia Shanghai Bell | 28.532 | 0071 | - | Rel-16 | F | REST\_SS | not pursued |
| S5-196539 | Rel-16 CR 28.532 Repair broken links in References | AT&T, Deutsche Telekom, Orange | 28.532 | 0072 | - | Rel-16 | F | ONAP3GPP | not treated |
| S5-196231 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0038 | - | Rel-15 | F | NETSLICE | revised |
| S5-196762 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0038 | 1 | Rel-15 | F | NETSLICE | revised |
| S5-196825 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0038 | 2 | Rel-15 | F | NETSLICE | agreed |
| S5-196232 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0039 | - | Rel-16 | A | NETSLICE | revised |
| S5-196763 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0039 | 1 | Rel-16 | A | NETSLICE | revised |
| S5-196826 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0039 | 2 | Rel-16 | A | NETSLICE | agreed |
| S5-196233 | Rel-15 CR TS 28.533 Add deployment scenario | Huawei | 28.533 | 0040 | - | Rel-15 | F | NETSLICE | not pursued |
| S5-196234 | Rel-16 CR TS 28.533 Add deployment scenario | Huawei | 28.533 | 0041 | - | Rel-16 | A | NETSLICE | not pursued |
| S5-196240 | Rel-16 CR TS 28.533 Update Clause A.7 Utilization of management data analystic services | Huawei | 28.533 | 0042 | - | Rel-16 | B | COSLA | merged |
| S5-196616 | Rel-16 CR TS 28.533 Update Clause A.7 Utilization of management data analystic services | Huawei | 28.533 | 0042 | 1 | Rel-16 | B | COSLA | withdrawn |
| S5-196285 | Rel-16 CR TS 28.533 Obtaining URI of MnS instance | Huawei | 28.533 | 0043 | - | Rel-16 | B | 5GDMS | revised |
| S5-196778 | Rel-16 CR TS 28.533 Obtaining URI of MnS instance | Huawei | 28.533 | 0043 | 1 | Rel-16 | B | 5GDMS | not pursued |
| S5-196290 | Rel-16 CR TS 28.533 Add concept descritipn for management capabiliy | Huawei | 28.533 | 0044 | - | Rel-16 | B | MEMTANE | revised |
| S5-196754 | Rel-16 CR TS 28.533 Add concept descritipn for management capabiliy | Huawei | 28.533 | 0044 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-196617 | 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 | - | Rel-16 | B | COSLA | revised |
| S5-196850 | 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 | 1 | Rel-16 | B | COSLA | not treated |
| S5-196307 | Rel-16 CR TS 28.540 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | 28.540 | 0003 | - | Rel-16 | B | eNRM | revised |
| S5-196780 | Rel-16 CR TS 28.540 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | 28.540 | 0003 | 1 | Rel-16 | B | eNRM | revised |
| S5-196842 | Rel-16 CR TS 28.540 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | 28.540 | 0003 | 2 | Rel-16 | B | eNRM | agreed |
| S5-196342 | Rel-16 CR TS 28.540 Add GSMA GST mapping related requirements | Huawei, China Mobile | 28.540 | 0004 | - | Rel-16 | C | MA5SLA | revised |
| S5-196641 | Rel-16 CR TS 28.540 Add GSMA GST mapping related requirements | Huawei, China Mobile,Nokia | 28.540 | 0004 | 1 | Rel-16 | C | MA5SLA | agreed |
| S5-196463 | Add requirement in NRM to support GST attributes | Nokia, Nokia Shanghai Bell | 28.540 | 0005 | - | Rel-16 | B | MA5SLA | merged |
| S5-196482 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | 28.541 | 0051 | 10 | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196600 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | 28.541 | 0051 | 11 | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196845 | Rel-15 CR TS 28.541 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | 28.541 | 0051 | 12 | Rel-15 | F | NETSLICE-5GNRM | conditionally agreed |
| S5-196153 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc.,Huawei | 28.541 | 0091 | 2 | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196587 | Add missing (E-UTRAN) cell and freq relation | Ericsson Inc.,Huawei | 28.541 | 0091 | 3 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196243 | To syn up with v1540 stage 2 | Ericsson Inc. | 28.541 | 0146 | 2 | Rel-16 | F | NETSLICE-5GNRM | revised |
| S5-196591 | To syn up with v1540 stage 2 | Ericsson, Huawei | 28.541 | 0146 | 3 | Rel-16 | F | TEI16,NETSLICE-5GNRM | agreed |
| S5-196154 | Correct Import table | Ericsson Inc. | 28.541 | 0155 | 1 | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196602 | Correct Import table | Ericsson Inc. | 28.541 | 0155 | 2 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196160 | Correct Import table | Ericsson Inc. | 28.541 | 0156 | 1 | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-196603 | Correct Import table | Ericsson Inc. | 28.541 | 0156 | 2 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-196155 | Correct NR TAC attribute property | Ericsson LM | 28.541 | 0160 | - | Rel-15 | F | NETSLICE-5GNRM | not treated |
| S5-196187 | Extensions to PCF and UPF IOCs for support of TSC (Time Sensitive Communication) | Nokia | 28.541 | 0161 | - | Rel-16 | C | eNRM | revised |
| S5-196699 | Extensions to PCF and UPF IOCs for support of TSC (Time Sensitive Communication) | Nokia | 28.541 | 0161 | 1 | Rel-16 | C | eNRM | agreed |
| S5-196220 | Rel-15 CR TS 28.541 Correct the parameter sNSSAIList | Huawei | 28.541 | 0162 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196597 | Rel-15 CR TS 28.541 Correct the parameter sNSSAIList | Huawei | 28.541 | 0162 | 1 | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-196221 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | Huawei | 28.541 | 0163 | - | Rel-16 | A | NETSLICE-5GNRM | not pursued |
| S5-196222 | Rel-15 CR TS 28.541 Update on RRMPolicy | Huawei | 28.541 | 0164 | - | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-196223 | Rel-16 CR TS 28.541 Update on RRMPolicy | Huawei | 28.541 | 0165 | - | Rel-16 | A | NETSLICE-5GNRM | not pursued |
| S5-196235 | Rel-16 CR TS 28.541 Correct XML Solution Set for NR | Huawei | 28.541 | 0166 | - | Rel-16 | F | eNRM | revised |
| S5-196847 | Rel-16 CR TS 28.541 Correct XML Solution Set for NR | Huawei | 28.541 | 0166 | 1 | Rel-16 | F | eNRM | agreed |
| S5-196236 | Rel-16 CR TS 28.541 Correct Network slice NRM | Huawei,Ericsson | 28.541 | 0167 | - | Rel-16 | F | eNRM | revised |
| S5-196849 | Rel-16 CR TS 28.541 Correct Network slice NRM | Huawei,Ericsson | 28.541 | 0167 | 1 | Rel-16 | F | eNRM | agreed |
| S5-196241 | Correct NR TAC attribute property | Ericsson LM | 28.541 | 0168 | - | Rel-16 | A | NETSLICE-5GNRM | not treated |
| S5-196242 | To sync up with Rel-15 stage 2 (on NR NRM) | Ericsson LM | 28.541 | 0169 | - | Rel-16 | F | NETSLICE-5GNRM | withdrawn |
| S5-196263 | Rel-16 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram | CATT | 28.541 | 0170 | - | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-196264 | Rel-15 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram | CATT | 28.541 | 0171 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196265 | Rel-16 CR TS 28.541 Correction of the duplicated IOC NSSFFunction in daigram | CATT | 28.541 | 0172 | - | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-196266 | Rel-15 CR TS 28.541 Correction of the wrong IOC names in transport view of NWDAF and NSSF NRM | CATT | 28.541 | 0173 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196292 | Rel-16 CR TS 28.541 ServiceProfile extension to support multiple tenants environment | Huawei | 28.541 | 0174 | - | Rel-16 | B | MEMTANE | not pursued |
| S5-196296 | Rel-16 CR TS 28.541 XML Solution Set for 5GC | Huawei | 28.541 | 0175 | - | Rel-16 | F | eNRM | agreed |
| S5-196306 | Rel-16 CR TS 28.541 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | 28.541 | 0176 | - | Rel-16 | B | eNRM | revised |
| S5-196810 | Rel-16 CR TS 28.541 Add OAM support for RIM parameters | HUAWEI TECHNOLOGIES Co. Ltd. | 28.541 | 0176 | 1 | Rel-16 | B | eNRM | not treated |
| S5-196343 | Rel-16 CR TS 28.541 Update on slice model | Huawei, China Mobile | 28.541 | 0177 | - | Rel-16 | C | MA5SLA | revised |
| S5-196642 | Rel-16 CR TS 28.541 Update on slice model | Huawei, China Mobile, Nokia, Nokia Shanghai Bell | 28.541 | 0177 | 1 | Rel-16 | C | MA5SLA | conditionally agreed |
| S5-196345 | Rel-16 CR 28.541 Add relation of GST and profiles | Huawei, China Mobile | 28.541 | 0178 | - | Rel-16 | B | MA5SLA | revised |
| S5-196620 | Rel-16 CR 28.541 Add relation of GST and profiles | Huawei, China Mobile | 28.541 | 0178 | 1 | Rel-16 | B | MA5SLA | revised |
| S5-196867 | Rel-16 CR 28.541 Add relation of GST and profiles | Huawei, China Mobile | 28.541 | 0178 | 2 | Rel-16 | B | MA5SLA | agreed |
| S5-196447 | Rel-16 CR 28.541 Update of RRM Policy | Ericsson LM | 28.541 | 0179 | - | Rel-16 | F | eNRM | not pursued |
| S5-196455 | Update Stage 2 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0180 | - | Rel-16 | F | eNRM | revised |
| S5-196700 | Update Stage 2 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0180 | 1 | Rel-16 | F | eNRM | revised |
| S5-196843 | Update Stage 2 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0180 | 2 | Rel-16 | F | eNRM | not treated |
| S5-196456 | Update Stage 3 SEPP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0181 | - | Rel-16 | F | eNRM | withdrawn |
| S5-196457 | Add Stage 2 NEF definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0182 | - | Rel-16 | C | eNRM | revised |
| S5-196703 | Add Stage 2 NEF definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0182 | 1 | Rel-16 | C | eNRM | agreed |
| S5-196458 | Add Stage 3 NEF definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0183 | - | Rel-16 | C | eNRM | withdrawn |
| S5-196459 | Add Stage 2 SCP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0184 | - | Rel-16 | C | eNRM | revised |
| S5-196702 | Add Stage 2 SCP definition in 5GC NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0184 | 1 | Rel-16 | C | eNRM | agreed |
| S5-196460 | Add Stage 3 definitions of 5GC NRM to align with stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0185 | - | Rel-16 | C | eNRM | agreed |
| S5-196461 | Support communication model in 5GC NF - Stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0186 | - | Rel-16 | C | eNRM | revised |
| S5-196704 | Support communication model in 5GC NF - Stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0186 | 1 | Rel-16 | C | eNRM | agreed |
| S5-196462 | Support communication model in 5GC NF - Stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0187 | - | Rel-16 | C | eNRM | withdrawn |
| S5-196464 | Add generic characters of GST in slice NRM - stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0188 | - | Rel-16 | B | MA5SLA | merged |
| S5-196643 | Add generic characters of GST in slice NRM - stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0188 | 1 | Rel-16 | B | MA5SLA | withdrawn |
| S5-196465 | Add generic characters of GST in slice NRM - stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0189 | - | Rel-16 | B | MA5SLA | withdrawn |
| S5-196466 | Update CoverageArea attribute in service profile - stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0190 | - | Rel-16 | C | MA5SLA | merged |
| S5-196644 | Update CoverageArea attribute in service profile - stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0190 | 1 | Rel-16 | C | MA5SLA | withdrawn |
| S5-196467 | Update CoverageArea attribute in service profile - stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0191 | - | Rel-16 | C | MA5SLA | withdrawn |
| S5-196468 | Fix merging errors of the specification | Nokia, Nokia Shanghai Bell | 28.541 | 0192 | - | Rel-16 | F | eNRM | not treated |
| S5-196489 | Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | 28.541 | 0193 | - | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-196601 | Rel-15 CR TS 28.541 Stage 3 Add NRM Info Model definitions for beam managed object classes | Pivotal Commware, ZTE, Intel, P.I. Works, China Mobile, Verizon, BT, AT&T, Cisco, Deutsche Telekom | 28.541 | 0193 | 1 | Rel-15 | F | NETSLICE-5GNRM | withdrawn |
| S5-196577 | Add new NRM fragment supporting resource allocation and deallocation | Nokia | 28.541 | 0194 | - | Rel-16 | C | eNRM | not pursued |
| S5-196701 | Add State Handling diagram for NF service | Nokia, Nokia Shanghai Bell | 28.541 | 0195 | - | Rel-16 | C | eNRM | agreed |
| S5-196888 | Remove Network Slicing SS | Ericsson | 28.541 | 0196 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196889 | Updates to YANG SS | Ericsson | 28.541 | 0197 | - | Rel-16 | B | eNRM | agreed |
| S5-196293 | Rel-16 CR TS 28.550 Performance management service enhancement for tenant supporting | Huawei | 28.550 | 0030 | - | Rel-16 | B | MEMTANE | revised |
| S5-196755 | Rel-16 CR TS 28.550 Performance management service enhancement for tenant supporting | Huawei | 28.550 | 0030 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-196309 | Rel-16 CR TS 28.550 add clarification of the NSI and NSSI performance assurance | Huawei Telecommunication India | 28.550 | 0031 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-196775 | Rel-16 CR TS 28.550 add clarification of the NSI and NSSI performance assurance | Huawei Telecommunication India | 28.550 | 0031 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | withdrawn |
| S5-196331 | Rel-15 CR 28.550 Add stream information management related operations | Intel Finland Oy | 28.550 | 0032 | - | Rel-15 | F | NETSLICE-ADPM5G | not pursued |
| S5-196332 | Rel-16 CR 28.550 Add stream information management related operations | Intel Finland Oy | 28.550 | 0033 | - | Rel-16 | A | NETSLICE-ADPM5G | not pursued |
| S5-196389 | Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | China Telecommunications, ZTE | 28.550 | 0034 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | revised |
| S5-196662 | Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | China Telecommunications, ZTE | 28.550 | 0034 | 1 | Rel-16 | B | 5G\_SLICE\_ePA-KPI | revised |
| S5-196853 | Rel-16 CR TS 28.550 Add UC and requirements for NF KPI job control | China Telecommunications, ZTE | 28.550 | 0034 | 2 | Rel-16 | B | 5G\_SLICE\_ePA-KPI | not treated |
| S5-196393 | Rel-16 CR TS 28.550 Add UC and requirements for NSSI KPI job control | China Telecommunications, ZTE | 28.550 | 0035 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | merged |
| S5-196663 | Rel-16 CR TS 28.550 Add UC and requirements for NSSI KPI job control | China Telecommunications, ZTE | 28.550 | 0035 | 1 | Rel-16 | B | 5G\_SLICE\_ePA-KPI | withdrawn |
| S5-196394 | Rel-16 CR TS 28.550 Add UC and requirements for NSI KPI job control | China Telecommunications, ZTE | 28.550 | 0036 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | merged |
| S5-196397 | Rel-16 CR TS 28.550 Add UC and requirements for NetworkSubNetwork KPI job control | China Telecommunications, ZTE | 28.550 | 0037 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | merged |
| S5-196409 | Rel-16 CR TS 28.550 Add KPI job control service | ZTE Corporation, China Telecom | 28.550 | 0038 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | revised |
| S5-196748 | Rel-16 CR TS 28.550 Add KPI job control service | ZTE Corporation, China Telecom | 28.550 | 0038 | 1 | Rel-16 | B | 5G\_SLICE\_ePA-KPI | agreed |
| S5-196410 | Rel-16 CR TS 28.550 Update the description of scope | ZTE, China Telecom | 28.550 | 0039 | - | Rel-16 | F | 5G\_SLICE\_ePA-KPI | agreed |
| S5-196047 | Add new Use case related to extended 5QI 1 QoS Flow Retainability monitoring into A30 | Nokia Solutions & Networks (I) | 28.552 | 0131 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196609 | Add new Use case related to extended 5QI 1 QoS Flow Retainability monitoring into A30 | Nokia Solutions & Networks (I) | 28.552 | 0131 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196045 | Add new measurements related to QoS Flow Setup via Initial Context Setup | Nokia Solutions & Networks (I) | 28.552 | 0132 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196607 | Add new measurements related to QoS Flow Setup via Initial Context Setup | Nokia Solutions & Networks (I) | 28.552 | 0132 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196837 | Add new measurements related to QoS Flow Setup via Initial Context Setup | Nokia Solutions & Networks (I) | 28.552 | 0132 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196044 | Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30 | Nokia Solutions & Networks (I) | 28.552 | 0133 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196606 | Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30 | Nokia Solutions & Networks (I) | 28.552 | 0133 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196836 | Add new Use case related to extended 5QI 1 QoS Flow establishment via Initial Context Setup into A30 | Nokia Solutions & Networks (I) | 28.552 | 0133 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196151 | Rel-15 CR TS 28.552 Correction of Registered subscribers measurement for AMF | China Mobile Com. Corporation | 28.552 | 0134 | - | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-196152 | Rel-16 CR TS 28.552 Correction of Registered subscribers measurement for AMF | China Mobile Com. Corporation | 28.552 | 0135 | - | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-196162 | Rel-15 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | 28.552 | 0136 | - | Rel-15 | B | NETSLICE-ADPM5G | not pursued |
| S5-196163 | Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | 28.552 | 0137 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-196585 | Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | 28.552 | 0137 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-196839 | Rel-16 CR TS 28.552 Add Registered subscribers related measurements for AMF | China Mobile Com. Corporation | 28.552 | 0137 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-196164 | Rel-15 CR TS 28.552 Add Unregistered subscribers measurements for UDM | China Mobile Com. Corporation | 28.552 | 0138 | - | Rel-15 | B | NETSLICE-ADPM5G | not pursued |
| S5-196165 | Rel-16 CR TS 28.552 Add Unregistered subscribers measurements for UDM | China Mobile Com. Corporation | 28.552 | 0139 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-196586 | Rel-16 CR TS 28.552 Add Unregistered subscribers measurements for UDM | China Mobile Com. Corporation | 28.552 | 0139 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196294 | Rel-16 CR TS 28.552 Performance measurement extension to support multiple tenants environment | Huawei | 28.552 | 0140 | - | Rel-16 | B | MEMTANE | revised |
| S5-196756 | Rel-16 CR TS 28.552 Performance measurement extension to support multiple tenants environment | Huawei | 28.552 | 0140 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-196295 | Rel-16 CR 28.552 Correct measurements on RTT delay between PSA UPF and UE | Huawei | 28.552 | 0141 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-196335 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS | Intel Finland Oy | 28.552 | 0142 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196817 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS | Intel Finland Oy | 28.552 | 0142 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196336 | Rel-16 CR 28.552 Add measurements related to registration via trusted non-3GPP access | Intel Finland Oy | 28.552 | 0143 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196337 | Rel-16 CR 28.552 Add measurements related to service request via trusted non-3GPP access | Intel Finland Oy | 28.552 | 0144 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196338 | Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN | Intel Finland Oy | 28.552 | 0145 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196610 | Rel-16 CR 28.552 Add measurements related to QoS flow modification in NG-RAN | Intel Finland Oy | 28.552 | 0145 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | not treated |
| S5-196339 | Rel-16 CR 28.552 Add measurements related to QoS flow setup via untrusted non-3GPP access | Intel Finland Oy | 28.552 | 0146 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196772 | Rel-16 CR 28.552 Add measurements related to QoS flow setup via untrusted non-3GPP access | Intel Finland Oy | 28.552 | 0146 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196340 | Rel-16 CR 28.552 Add measurements related to QoS flow modification via untrusted non-3GPP access | Intel Finland Oy | 28.552 | 0147 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196773 | Rel-16 CR 28.552 Add measurements related to QoS flow modification via untrusted non-3GPP access | Intel Finland Oy | 28.552 | 0147 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196341 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS via N26 interface | Intel Finland Oy | 28.552 | 0148 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196774 | Rel-16 CR 28.552 Add measurements related to handover between 5GS and EPS via N26 interface | Intel Finland Oy | 28.552 | 0148 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196411 | Rel-16 CR TS 28.552 Re-orgnize the structure of TS 28.552 | HUAWEI TECHNOLOGIES Co. Ltd. | 28.552 | 0149 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-196776 | Rel-16 CR TS 28.552 Re-orgnize the structure of TS 28.552 | HUAWEI TECHNOLOGIES Co. Ltd. | 28.552 | 0149 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-196169 | Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | Huawei | 28.554 | 0031 | - | Rel-16 | F | 5G\_SLICE\_ePA-KPI | revised |
| S5-196793 | Rel-16 CR TS 28.554 Update the template of KPI definition for TS 28.554 | Huawei,ZTE, China Telecom | 28.554 | 0031 | 1 | Rel-16 | F | 5G\_SLICE\_ePA-KPI | not pursued |
| S5-196346 | Rel-16 CR TS 28.554 Add 5G Energy Efficiency KPI | Huawei, Orange | 28.554 | 0032 | - | Rel-16 | B | EE\_5G | revised |
| S5-196770 | Rel-16 CR TS 28.554 Add 5G Energy Efficiency KPI | Huawei, Orange | 28.554 | 0032 | 1 | Rel-16 | B | EE\_5G | agreed |
| S5-196390 | Add a new description of KPI that related to Mean number of successful periodic registration updates | China Mobile E-Commerce Co. | 28.554 | 0033 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196784 | Add a new description of KPI that related to Mean number of successful periodic registration updates | China Mobile E-Commerce Co. | 28.554 | 0033 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196392 | Add a new description of KPI that related to successful rate of mobility registration updates of Single Network Slice Instance | China Mobile E-Commerce Co. | 28.554 | 0034 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196785 | Add a new description of KPI that related to successful rate of mobility registration updates of Single Network Slice Instance | China Mobile E-Commerce Co. | 28.554 | 0034 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196412 | Rel-16 CR TS 28.554 Update the KPI template | ZTE, China Telecom | 28.554 | 0035 | - | Rel-16 | F | 5G\_SLICE\_ePA-KPI | merged |
| S5-196157 | Correct conditional mandatory qualifications for SectorEquipmentFunction | Ericsson Inc. | 28.622 | 0047 | 1 | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-196052 | Rel-16 CR 28.622 Configurable Heartbeat NRM fragment | AT&T, Deutsche Telekom, Orange | 28.622 | 0048 | - | Rel-16 | B | ONAP3GPP | merged |
| S5-196158 | Correct use of ProxyCellList | Ericsson LM | 28.622 | 0049 | - | Rel-15 | F | NETSLICE-5GNRM | withdrawn |
| S5-196304 | Add support of Configurable FM | Ericsson LM | 28.622 | 0050 | - | Rel-16 | C | NETSLICE-5GNRM | revised |
| S5-196598 | Add support of Configurable FM | Ericsson LM | 28.622 | 0050 | 1 | Rel-16 | C | eNRM | not pursued |
| S5-196314 | Rel-15 CR TS 28.622 update the definition of attribute measurementsList | ZTE Corporation, Ericsson | 28.622 | 0051 | - | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-196592 | Rel-15 CR TS 28.622 update the definition of attribute measurementsList | ZTE Corporation, Ericsson | 28.622 | 0051 | 1 | Rel-15 | F | NETSLICE-5GNRM | withdrawn |
| S5-196315 | Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs | ZTE Corporation, Ericsson | 28.622 | 0052 | - | Rel-16 | F | NETSLICE-5GNRM | not pursued |
| S5-196593 | Rel-16 CR TS 28.622 Add measurementsList attribute into related IOCs | ZTE Corporation, Ericsson | 28.622 | 0052 | 1 | Rel-16 | A | NETSLICE-5GNRM | withdrawn |
| S5-196425 | CR 28.622 Add subscription NRM fragment | Orange, Nokia, Nokia Shanghai Bell | 28.622 | 0053 | - | Rel-16 | B | ONAP3GPP | not pursued |
| S5-196426 | CR 28.622 Add heartbeat NRM fragment | Nokia, Nokia Shanghai Bell | 28.622 | 0054 | - | Rel-16 | B | ONAP3GPP | not pursued |
| S5-196789 | CR 28.622 Add heartbeat NRM fragment | Nokia, Nokia Shanghai Bell,AT&T, Deutsche Telekom, Orange | 28.622 | 0054 | 1 | Rel-16 | B | ONAP3GPP | withdrawn |
| S5-196454 | Add State Handling diagram for NF service | Nokia, Nokia Shanghai Bell | 28.622 | 0055 | - | Rel-16 | C | eNRM | not pursued |
| S5-196497 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | 28.622 | 0056 | - | Rel-15 | F | TEI15 | revised |
| S5-196594 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | 28.622 | 0056 | 1 | Rel-15 | F | TEI15 | revised |
| S5-196827 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | 28.622 | 0056 | 2 | Rel-15 | F | TEI15 | agreed |
| S5-196498 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | 28.622 | 0057 | - | Rel-16 | A | TEI15 | revised |
| S5-196595 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | 28.622 | 0057 | 1 | Rel-16 | A | TEI15 | revised |
| S5-196828 | Correct definition of network resource | Ericsson Telecomunicazioni SpA | 28.622 | 0057 | 2 | Rel-16 | A | TEI15 | agreed |
| S5-196226 | Rel-15 CR TS 28.623 Correct XML Solution Set for generic NRM | Huawei | 28.623 | 0030 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196237 | Rel-16 CR TS 28.623 Correct XML Solution Set for generic NRM | Huawei | 28.623 | 0031 | - | Rel-16 | F | eNRM | revised |
| S5-196848 | Rel-16 CR TS 28.623 Correct XML Solution Set for generic NRM | Huawei | 28.623 | 0031 | 1 | Rel-16 | F | eNRM | agreed |
| S5-196262 | Rel-16 CR 28.623 Introduce Stage 3 for configurable heartbeat | AT&T, Deutsche Telekom, Orange | 28.623 | 0032 | - | Rel-16 | B | ONAP3GPP | not pursued |
| S5-196790 | Rel-16 CR 28.623 Introduce Stage 3 for configurable heartbeat | AT&T, Deutsche Telekom, Orange | 28.623 | 0032 | 1 | Rel-16 | B | ONAP3GPP | withdrawn |
| S5-196428 | CR 28.623 Add subscription NRM fragment | Orange, Nokia, Nokia Shanghai Bell | 28.623 | 0033 | - | Rel-16 | B | ONAP3GPP | withdrawn |
| S5-196430 | CR 28.623 Add heartbeat NRM fragment | Nokia, Nokia Shanghai Bell | 28.623 | 0034 | - | Rel-16 | B | ONAP3GPP | withdrawn |
| S5-196890 | Updates to YANG SS | Ericsson | 28.623 | 0035 | - | Rel-16 | B | eNRM | agreed |
| S5-196305 | Add missing (E-UTRAN) cell and freq relation | Ericsson LM | 28.658 | 0050 | - | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-196589 | Add missing (E-UTRAN) cell and freq relation | Ericsson, Huawei | 28.658 | 0050 | 1 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-196156 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | 28.659 | 0035 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196588 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | 28.659 | 0035 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196224 | Rel-15 CR TS 28.659 Update XML solution set to support EUTRAN frequency relation | Huawei | 28.659 | 0036 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196225 | Rel-16 CR TS 28.659 Update XML solution set to support EUTRAN frequency relation | Huawei | 28.659 | 0037 | - | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-196308 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | 28.659 | 0038 | - | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-196590 | Add missing stage 3 CORBA/IDL solution | Ericsson LM | 28.659 | 0038 | 1 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-196159 | Correct use of ProxyCellList | Ericsson LM | 28.662 | 0010 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-196596 | Correct use of ProxyCellList | Ericsson LM | 28.662 | 0010 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-196396 | Add description and requirements of communication service instance monitoring | China Mobile E-Commerce Co. | 28.805 | 0001 | - | Rel-16 | B | FS\_5GSAT\_MO | not pursued |
| S5-196398 | Add description of communication service lifecycle prepareation phase | China Mobile E-Commerce Co. | 28.805 | 0002 | - | Rel-16 | B | FS\_5GSAT\_MO | not pursued |
| S5-196399 | Add description of communication service catelogue | China Mobile E-Commerce Co. | 28.805 | 0003 | - | Rel-16 | B | FS\_5GSAT\_MO | not pursued |
| S5-196402 | pCR28.805 Add New Possible Parameters in the Mapping Between GSMA GST and SA5 NST | China Mobile E-Commerce Co. | 28.805 | 0004 | - | Rel-16 | B | FS\_5GSAT\_MO | not pursued |
| S5-196452 | Correct faulty implementation of figure 4.4.3.1 | Ericsson India Private Limited | 28.805 | 0005 | - | Rel-16 | F | FS\_CSMAN | agreed |
| S5-196453 | Implement Edithelp comments | Ericsson India Private Limited | 28.805 | 0006 | - | Rel-16 | F | FS\_CSMAN | agreed |
| S5-196469 | Solutions for Editor's notes | Ericsson India Private Limited | 28.805 | 0007 | - | Rel-16 | F | FS\_CSMAN | agreed |
| S5-196472 | CR Rel-16 TR 28.806 Implementation of fixes for issues identified by EditHelp | Nokia | 28.806 | 0001 | - | Rel-16 | D | FS\_OAM\_RTT | revised |
| S5-196786 | CR Rel-16 TR 28.806 Implementation of fixes for issues identified by EditHelp | Nokia | 28.806 | 0001 | 1 | Rel-16 | F | FS\_OAM\_RTT | agreed |
| S5-196434 | CR 32.158 Clarify design pattern for attribute field selection | Nokia; Nokia Shanghai Bell | 32.101 | 0069 | - | Rel-16 | F | REST\_SS | withdrawn |
| S5-196470 | Add passedById and other updates | Ericsson India Private Limited | 32.156 | 0035 | - | Rel-16 | F | TEI16 | agreed |
| S5-196433 | CR 32.158 Clarify design pattern for scoping and filtering | Nokia, Nokia Shanghai Bell | 32.158 | 0004 | - | Rel-16 | B | TEI16,REST\_SS | not pursued |
| S5-196435 | CR 32.158 Correct basic design patterns | Nokia, Nokia Shanghai Bell | 32.158 | 0005 | - | Rel-15 | F | REST\_SS | agreed |
| S5-196436 | CR 32.158 Add design pattern for patching multiple resources | Nokia, Nokia Shanghai Bell | 32.158 | 0006 | - | Rel-15 | F | REST\_SS | agreed |
| S5-196437 | CR 32.158 Correct resource representation formats | Nokia, Nokia Shanghai Bell | 32.158 | 0007 | - | Rel-15 | F | REST\_SS | agreed |
| S5-196438 | CR 32.158 Add examples | Nokia, Nokia Shanghai Bell | 32.158 | 0008 | - | Rel-15 | F | REST\_SS | agreed |
| S5-196440 | CR 28.532 Correct and update the RESTful HTTP-based solution set of provisioning | Nokia, Nokia Shanghai Bell | 32.158 | 0009 | - | Rel-16 | F | REST\_SS | withdrawn |
| S5-196446 | CR 32.158 Clarify design pattern for attribute field selection | Nokia, Nokia Shanghai Bell | 32.158 | 0010 | - | Rel-15 | F | REST\_SS | not pursued |
| S5-196471 | Implement Edithelp comments | Ericsson India Private Limited | 32.160 | 0001 | - | Rel-16 | F | METHOGY | agreed |
| S5-196473 | Solutions for Editor's note | Ericsson India Private Limited | 32.160 | 0002 | - | Rel-16 | F | METHOGY | agreed |
| S5-196058 | Rel-15 CR 32.255 Add the Service Specification information | Huawei | 32.255 | 0091 | - | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196062 | Rel-15 CR 32.255 Add the QoS Characteristics | Huawei | 32.255 | 0092 | - | Rel-15 | F | 5GS\_Ph1-DCH | not pursued |
| S5-196064 | Rel-15 CR 32.255 Add the QNC support | Huawei | 32.255 | 0093 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196569 | Rel-15 CR 32.255 Add the QNC support | Huawei | 32.255 | 0093 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196068 | Rel-15 CR 32.255 correction of PCC rules description | Huawei | 32.255 | 0094 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196624 | Rel-15 CR 32.255 correction of PCC rules description | Huawei | 32.255 | 0094 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196069 | Rel-15 CR 32.255 Correction of UPF ID in CHF CDR data | Huawei | 32.255 | 0095 | - | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196074 | Rel-15 CR 32.255 Correction of reportTime | Huawei | 32.255 | 0096 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196636 | Rel-15 CR 32.255 Correction of reportTime | Huawei | 32.255 | 0096 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196077 | Rel-15 CR 32.255 Add the sponsor based charging | Huawei | 32.255 | 0097 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196639 | Rel-15 CR 32.255 Add the sponsor based charging | Huawei | 32.255 | 0097 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196078 | Rel-15 32.255 Correction of Unit Count Inactivity Timer | Huawei | 32.255 | 0098 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196676 | Rel-15 32.255 Correction of Unit Count Inactivity Timer | Huawei | 32.255 | 0098 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196080 | Rel-15 CR 32.255 Add the Service Specification information | Huawei | 32.255 | 0099 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196084 | Rel-15 CR 32.255 Add the QoS Characteristics | Huawei | 32.255 | 0100 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196086 | Rel-15 CR 32.255 Add the QNC support | Huawei | 32.255 | 0101 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196090 | Rel-15 CR 32.255 correction of PCC rules description | Huawei | 32.255 | 0102 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196091 | Rel-15 CR 32.255 Correction of UPF ID in CHF CDR data | Huawei | 32.255 | 0103 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196096 | Rel-15 CR 32.255 Correction of reportTime | Huawei | 32.255 | 0104 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196099 | Rel-15 CR 32.255 Add the sponsor based charging | Huawei | 32.255 | 0105 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196100 | Rel-15 32.255 Correction of Unit Count Inactivity Timer | Huawei | 32.255 | 0106 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196106 | Rel-16 CR 32.255 Add the Service Specification information | Huawei | 32.255 | 0107 | - | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196109 | Rel-16 CR 32.255 Add the QoS Characteristics | Huawei | 32.255 | 0108 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196730 | Rel-16 CR 32.255 Add the QoS Characteristics | Huawei | 32.255 | 0108 | 1 | Rel-16 | F | TEI16,5GS\_Ph1-DCH | agreed |
| S5-196111 | Rel-16 CR 32.255 Add the QNC support | Huawei | 32.255 | 0109 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196570 | Rel-16 CR 32.255 Add the QNC support | Huawei | 32.255 | 0109 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196115 | Rel-16 CR 32.255 correction of PCC rules description | Huawei | 32.255 | 0110 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196625 | Rel-16 CR 32.255 correction of PCC rules description | Huawei | 32.255 | 0110 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196116 | Rel-16 CR 32.255 Correction of UPF ID in CHF CDR data | Huawei | 32.255 | 0111 | - | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196121 | Rel-16 CR 32.255 Correction of reportTime | Huawei | 32.255 | 0112 | - | Rel-16 | A | 5GS\_Ph1-DCH | not pursued |
| S5-196124 | Rel-16 CR 32.255 Add the sponsor based charging | Huawei | 32.255 | 0113 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196640 | Rel-16 CR 32.255 Add the sponsor based charging | Huawei | 32.255 | 0113 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196125 | Rel-16 32.255 Correction of Unit Count Inactivity Timer | Huawei | 32.255 | 0114 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196677 | Rel-16 32.255 Correction of Unit Count Inactivity Timer | Huawei | 32.255 | 0114 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196139 | Rel-16 CR 32.255 Add charging requirement for I-SMF | Huawei | 32.255 | 0115 | - | Rel-16 | B | ETSUN | revised |
| S5-196724 | Rel-16 CR 32.255 Add charging requirement for I-SMF | Huawei | 32.255 | 0115 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-196140 | Rel-16 CR 32.255 Add charging principle for I-SMF | Huawei | 32.255 | 0116 | - | Rel-16 | B | ETSUN | revised |
| S5-196725 | Rel-16 CR 32.255 Add charging principle for I-SMF | Huawei | 32.255 | 0116 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-196141 | Rel-16 CR 32.255 Add charging trigger conditions for I-SMF | Huawei | 32.255 | 0117 | - | Rel-16 | B | ETSUN | revised |
| S5-196726 | Rel-16 CR 32.255 Add charging trigger conditions for I-SMF | Huawei | 32.255 | 0117 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-196142 | Rel-16 CR 32.255 Add I-SMF PDU session charging information | Huawei | 32.255 | 0118 | - | Rel-16 | B | ETSUN | revised |
| S5-196727 | Rel-16 CR 32.255 Add I-SMF PDU session charging information | Huawei | 32.255 | 0118 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-196144 | Rel-16 CR 32.255 Add clarifications to lifetime of offline only charging | Huawei | 32.255 | 0119 | - | Rel-16 | F | OFSBI\_CH | not pursued |
| S5-196147 | Rel-16 CR 32.290 Add event based charging for offline only charging service | Huawei | 32.255 | 0120 | - | Rel-16 | F | OFSBI\_CH | not pursued |
| S5-196148 | Rel-16 CR 32.255 Correction of Interworking flow | Huawei | 32.255 | 0121 | - | Rel-16 | F | 5GIEPC\_CH | revised |
| S5-196690 | Rel-16 CR 32.255 Correction of Interworking flow | Huawei | 32.255 | 0121 | 1 | Rel-16 | F | 5GIEPC\_CH | agreed |
| S5-196371 | Rel-16 CR 32.255 Correction of Container definition | Ericsson | 32.255 | 0122 | - | Rel-16 | F | 5GS\_Ph1-DCH | agreed |
| S5-196373 | Rel-16 CR 32.255 Correction of QoS Based Charging description | Ericsson | 32.255 | 0123 | - | Rel-16 | F | 5GS\_Ph1-DCH | revised |
| S5-196695 | Rel-16 CR 32.255 Correction of QoS Based Charging description | Ericsson | 32.255 | 0123 | 1 | Rel-16 | F | 5GS\_Ph1-DCH | agreed |
| S5-196374 | Rel-16 CR 32.255 Definition of Emergency Session handling | Ericsson | 32.255 | 0124 | - | Rel-16 | F | 5GS\_Ph1-DCH | revised |
| S5-196714 | Rel-16 CR 32.255 Definition of Emergency Session handling | Ericsson | 32.255 | 0124 | 1 | Rel-16 | F | 5GS\_Ph1-DCH | agreed |
| S5-196375 | Rel-16 CR 32.255 Correction of Charging Identifier | Ericsson | 32.255 | 0125 | - | Rel-16 | F | 5GS\_Ph1-DCH | not pursued |
| S5-196377 | Rel-16 CR 32.255 Missing default trigger for Offline | Ericsson | 32.255 | 0126 | - | Rel-16 | F | OFSBI\_CH | revised |
| S5-196715 | Rel-16 CR 32.255 Missing default trigger for Offline only | Ericsson | 32.255 | 0126 | 1 | Rel-16 | F | OFSBI\_CH | agreed |
| S5-196427 | Rel-16 CR 32.255 Adding ETSUN architecture with I-SMF insertion | Ericsson | 32.255 | 0127 | - | Rel-16 | B | ETSUN | not pursued |
| S5-196429 | Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging requirements | Ericsson | 32.255 | 0128 | - | Rel-16 | B | ETSUN | merged |
| S5-196431 | Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging information | Ericsson | 32.255 | 0129 | - | Rel-16 | B | ETSUN | revised |
| S5-196728 | Rel-16 CR 32.255 Adding I-SMF in 5G data connectivity charging information | Ericsson | 32.255 | 0129 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-196432 | Rel-16 CR 32.255 Adding I-SMF in applicable triggers for FBC | Ericsson | 32.255 | 0130 | - | Rel-16 | B | ETSUN | not pursued |
| S5-196491 | Rel-16 CR 32.255 Adding I-SMF in applicable triggers for QBC | Ericsson | 32.255 | 0131 | - | Rel-16 | B | ETSUN | not pursued |
| S5-196493 | Rel-16 CR 32.255 Adding I-SMF in PDU Session Charging message flow | Ericsson | 32.255 | 0132 | - | Rel-16 | B | ETSUN | revised |
| S5-196729 | Rel-16 CR 32.255 Adding I-SMF in PDU Session Charging message flow | Ericsson | 32.255 | 0132 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-196138 | Rel-16 CR 32.260 IMS Charging architecture introduction | Huawei | 32.260 | 0400 | - | Rel-16 | B | 5GSIMSCH | revised |
| S5-196546 | Rel-16 CR 32.260 IMS Charging architecture introduction | Huawei | 32.260 | 0400 | 1 | Rel-16 | B | 5GSIMSCH | agreed |
| S5-196254 | Rel-15 CR 32.274 Addition of Post Event Charging flows | Nokia, Nokia Shanghai Bell | 32.274 | 0067 | - | Rel-15 | F | 5GS\_Ph1-SMSCH | revised |
| S5-196683 | Rel-15 CR 32.274 Addition of Post Event Charging flows | Nokia, Nokia Shanghai Bell | 32.274 | 0067 | 1 | Rel-15 | F | 5GS\_Ph1-SMSCH | agreed |
| S5-196255 | Rel-15 CR 32.274 Correction of message content for Post Event Charging | Nokia, Nokia Shanghai Bell | 32.274 | 0068 | - | Rel-15 | F | 5GS\_Ph1-SMSCH | agreed |
| S5-196256 | Rel-15 CR 32.274 Correction of Service Specification Information | Nokia, Nokia Shanghai Bell | 32.274 | 0069 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196258 | Rel-15 CR 32.274 Clarify CHF selection via NRF and roaming | Nokia, Nokia Shanghai Bell | 32.274 | 0070 | - | Rel-15 | F | 5GS\_Ph1-SMSCH | revised |
| S5-196684 | Rel-15 CR 32.274 Clarify CHF selection via NRF and roaming | Nokia, Nokia Shanghai Bell | 32.274 | 0070 | 1 | Rel-15 | F | 5GS\_Ph1-SMSCH | agreed |
| S5-196259 | Rel-15 CR 32.274 Correction of Multiple Unit Information | Nokia, Nokia Shanghai Bell | 32.274 | 0071 | - | Rel-15 | F | 5GS\_Ph1-SMSCH | revised |
| S5-196685 | Rel-15 CR 32.274 Correction of Multiple Unit Information | Nokia, Nokia Shanghai Bell | 32.274 | 0071 | 1 | Rel-15 | F | 5GS\_Ph1-SMSCH | agreed |
| S5-196385 | Rel-16 CR 32.275 Addition of convergent flows | Ericsson | 32.275 | 0073 | - | Rel-16 | B | 5GSIMSCH | revised |
| S5-196547 | Rel-16 CR 32.275 Addition of convergent flows | Ericsson | 32.275 | 0073 | 1 | Rel-16 | B | 5GSIMSCH | agreed |
| S5-196386 | Rel-16 CR 32.281 Addition of convergent flows | Ericsson | 32.281 | 0007 | - | Rel-16 | B | 5GSIMSCH | revised |
| S5-196548 | Rel-16 CR 32.281 Addition of convergent flows | Ericsson | 32.281 | 0007 | 1 | Rel-16 | B | 5GSIMSCH | agreed |
| S5-196070 | Rel-15 CR 32.290 Correction of notify response | Huawei | 32.290 | 0081 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196626 | Rel-15 CR 32.290 Correction of notify response | Huawei | 32.290 | 0081 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196092 | Rel-15 CR 32.290 Correction of notify response | Huawei | 32.290 | 0082 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196117 | Rel-16 CR 32.290 Correction of notify response | Huawei | 32.290 | 0083 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196627 | Rel-16 CR 32.290 Correction of notify response | Huawei | 32.290 | 0083 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196149 | Rel-16 CR 32.290 Add clarifications to failure handling | Huawei | 32.290 | 0084 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196682 | Rel-16 CR 32.290 Add clarifications to failure handling | Huawei | 32.290 | 0084 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196150 | Rel-15 CR 32.290 Add clarifications to failure handling | Huawei | 32.290 | 0085 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196681 | Rel-15 CR 32.290 Add clarifications to failure handling | Huawei | 32.290 | 0085 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196368 | Rel-16 CR 32.290 Explanation of when Units Usage must be reported | Ericsson | 32.290 | 0086 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196693 | Rel-16 CR 32.290 Explanation of when Units Usage must be reported | Ericsson | 32.290 | 0086 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196369 | Rel-16 CR 32.290 Explanation of Units Usage in Initial | Ericsson | 32.290 | 0087 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196694 | Rel-16 CR 32.290 Explanation of Units Usage in Initial | Ericsson | 32.290 | 0087 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196372 | Rel-16 CR 32.290 Wrong name on CR | Ericsson | 32.290 | 0088 | - | Rel-16 | D | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196380 | Rel-16 CR 32.290 Definition of State Machine | Ericsson | 32.290 | 0089 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196381 | Rel-16 CR 32.290 Correction of redirect at termination | Ericsson | 32.290 | 0090 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196382 | Rel-16 CR 32.290 Correction of Converged Charging principles | Ericsson | 32.290 | 0091 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196717 | Rel-16 CR 32.290 Correction of Converged Charging principles | Ericsson | 32.290 | 0091 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196632 | Rel-15 CR 32.290 Correction of ChargingNotifyResponse description | Huawei | 32.290 | 0092 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196633 | Rel-16 CR 32.290 Correction of ChargingNotifyResponse description | Huawei | 32.290 | 0093 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196692 | Rel-16 CR 32.290 Clarify Retransmission IE | Nokia, Nokia Shanghai Bell | 32.290 | 0094 | - | Rel-16 | F | TEI16 | agreed |
| S5-196059 | Rel-15 CR 32.291 Add the Service Specification information | Huawei | 32.291 | 0128 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196565 | Rel-15 CR 32.291 Add the Service Specification information | Huawei | 32.291 | 0128 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196063 | Rel-15 CR 32.291 Add the QoS Characteristics | Huawei | 32.291 | 0129 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196065 | Rel-15 CR 32.291 Add the QNC support | Huawei | 32.291 | 0130 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196571 | Rel-15 CR 32.291 Add the QNC support | Huawei | 32.291 | 0130 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196066 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | 32.291 | 0131 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196622 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | 32.291 | 0131 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196071 | Rel-15 CR 32.291 Correction of notify response | Huawei | 32.291 | 0132 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196628 | Rel-15 CR 32.291 Correction of notify response | Huawei | 32.291 | 0132 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196072 | Rel-15 CR 32.291 Correction of ChargingDataResponse description | Huawei | 32.291 | 0133 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196630 | Rel-15 CR 32.291 Correction of ChargingDataResponse description | Huawei | 32.291 | 0133 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196073 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | 32.291 | 0134 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196634 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | 32.291 | 0134 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196081 | Rel-15 CR 32.291 Add the Service Specification information | Huawei | 32.291 | 0135 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196085 | Rel-15 CR 32.291 Add the QoS Characteristics | Huawei | 32.291 | 0136 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196087 | Rel-15 CR 32.291 Add the QNC support | Huawei | 32.291 | 0137 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196088 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | 32.291 | 0138 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196093 | Rel-15 CR 32.291 Correction of notify response | Huawei | 32.291 | 0139 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196094 | Rel-15 CR 32.291 Correction of ChargingDataResponse description | Huawei | 32.291 | 0140 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196095 | Rel-15 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | 32.291 | 0141 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196104 | Rel-15 CR 32.291 Correction of subscriberIdentifier | Huawei | 32.291 | 0142 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196105 | Rel-15 CR 32.291 Correction on OpenAPI for usedunitcontainer | Huawei | 32.291 | 0143 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-196107 | Rel-16 CR 32.291 Add the Service Specification information | Huawei | 32.291 | 0144 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196566 | Rel-16 CR 32.291 Add the Service Specification information | Huawei | 32.291 | 0144 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196110 | Rel-16 CR 32.291 Add the QoS Characteristics | Huawei | 32.291 | 0145 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196731 | Rel-16 CR 32.291 Add the QoS Characteristics | Huawei | 32.291 | 0145 | 1 | Rel-16 | F | TEI16,5GS\_Ph1-SBI\_CH | agreed |
| S5-196112 | Rel-15 CR 32.291 Add the QNC support | Huawei | 32.291 | 0146 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196621 | Rel-15 CR 32.291 Add the QNC support | Huawei | 32.291 | 0146 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196113 | Rel-15 CR 32.291 Clarify the QoS change trigger | Huawei | 32.291 | 0147 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196623 | Rel-16 CR 32.291 Clarify the QoS change trigger | Huawei | 32.291 | 0147 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196118 | Rel-16 CR 32.291 Correction of notify response | Huawei | 32.291 | 0148 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196629 | Rel-16 CR 32.291 Correction of notify response | Huawei | 32.291 | 0148 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196119 | Rel-16 CR 32.291 Correction of ChargingDataResponse description | Huawei | 32.291 | 0149 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196631 | Rel-16 CR 32.291 Correction of ChargingDataResponse description | Huawei | 32.291 | 0149 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196120 | Rel-16 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | 32.291 | 0150 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196635 | Rel-16 CR 32.291 Correction of Nchf\_ConvergedCharging\_Release operation | Huawei | 32.291 | 0150 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196129 | Rel-16 CR 32.291 Correction of subscriberIdentifier | Huawei | 32.291 | 0151 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196130 | Rel-16 CR 32.291 Correction on OpenAPI for usedunitcontainer | Huawei | 32.291 | 0152 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196689 | Rel-16 CR 32.291 Correction on OpenAPI for usedunitcontainer | Huawei | 32.291 | 0152 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196253 | Rel-16 CR 32.291 Introduce AMF in Nchf Converged Charging | Nokia, Nokia Shanghai Bell | 32.291 | 0153 | - | Rel-16 | B | 5GS\_Ph1\_AMFCH | not pursued |
| S5-196257 | Rel-16 CR 32.291 Add Retransmission IE for alignment with TS 32.290 | Nokia, Nokia Shanghai Bell | 32.291 | 0154 | - | Rel-16 | F | TEI16 | revised |
| S5-196691 | Rel-16 CR 32.291 Add Retransmission IE for alignment with TS 32.290 | Nokia, Nokia Shanghai Bell | 32.291 | 0154 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-196260 | Rel-15 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | 32.291 | 0155 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196686 | Rel-15 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | 32.291 | 0155 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196261 | Rel-16 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | 32.291 | 0156 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196687 | Rel-16 CR 32.291 Correction InvocationResult description and binding | Nokia, Nokia Shanghai Bell | 32.291 | 0156 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196379 | Rel-16 CR 32.291 Correction of yaml | Ericsson | 32.291 | 0157 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196716 | Rel-16 CR 32.291 Correction of yaml | Ericsson | 32.291 | 0157 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196383 | Rel-16 CR 32.291 Correction of pDUSessionChargingInformation | Ericsson | 32.291 | 0158 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196718 | Rel-16 CR 32.291 Correction of pDUSessionChargingInformation | Ericsson | 32.291 | 0158 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196384 | Rel-16 CR 32.291 Adding Exposure Function Northbound API Specified Data Type | Ericsson | 32.291 | 0159 | - | Rel-16 | B | 5GS\_Ph1\_NEFCH | revised |
| S5-196545 | Rel-16 CR 32.291 Adding Exposure Function Northbound API Specified Data Type | Ericsson | 32.291 | 0159 | 1 | Rel-16 | B | 5GS\_Ph1\_NEFCH | agreed |
| S5-196524 | Rel-16 CR 32.291 Add nssai query parameter | Amdocs Software Systems Ltd | 32.291 | 0160 | - | Rel-16 | B | 5GS\_Ph1-SBI\_CH | not pursued |
| S5-196526 | Rel-15 CR 32.291 Correction of nfIdentification in yaml | Ericsson | 32.291 | 0161 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196721 | Rel-15 CR 32.291 Correction of nfIdentification in yaml | Ericsson | 32.291 | 0161 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196534 | Rel-15 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | 32.291 | 0162 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196722 | Rel-15 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | 32.291 | 0162 | 1 | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196535 | Rel-16 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | 32.291 | 0163 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | revised |
| S5-196723 | Rel-16 CR 32.291 Alignement with TS 29.501 template | Nokia, Nokia Shanghai Bell | 32.291 | 0163 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196060 | Rel-15 CR 32.298 Add the Service Specification information | Huawei | 32.298 | 0741 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196567 | Rel-15 CR 32.298 Add the Service Specification information | Huawei | 32.298 | 0741 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196067 | Rel-15 CR 32.298 Add the selection model in PDU session information | Huawei | 32.298 | 0742 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196075 | Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | 32.298 | 0743 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196637 | Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | 32.298 | 0743 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196076 | Rel-15 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR | Huawei | 32.298 | 0744 | - | Rel-15 | F | 5GS\_Ph1-DCH | not pursued |
| S5-196079 | Rel-15 32.298 Correction of ASN.1 NetworkFunctionName | Huawei | 32.298 | 0745 | - | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196082 | Rel-15 CR 32.298 Add the Service Specification information | Huawei | 32.298 | 0746 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196089 | Rel-15 CR 32.298 Add the selection model in PDU session information | Huawei | 32.298 | 0747 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196097 | Rel-15 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | 32.298 | 0748 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196098 | Rel-15 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR | Huawei | 32.298 | 0749 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196101 | Rel-15 32.298 Correction of ASN.1 NetworkFunctionName | Huawei | 32.298 | 0750 | - | Rel-15 | F | 5GS\_Ph1-DCH | withdrawn |
| S5-196102 | Rel-15 32.298 Correction of ASN.1 AMFID | Huawei | 32.298 | 0751 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196680 | Rel-15 32.298 Correction of ASN.1 AMFID | Huawei | 32.298 | 0751 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196103 | Rel-15 32.298 Correction of ASN.1 userLocationInformation | Huawei | 32.298 | 0752 | - | Rel-15 | F | 5GS\_Ph1-DCH | revised |
| S5-196732 | Rel-15 32.298 Correction of ASN.1 userLocationInformation | Huawei | 32.298 | 0752 | 1 | Rel-15 | F | 5GS\_Ph1-DCH | agreed |
| S5-196108 | Rel-16 CR 32.298 Add the Service Specification information | Huawei | 32.298 | 0753 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196568 | Rel-16 CR 32.298 Add the Service Specification information | Huawei | 32.298 | 0753 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196114 | Rel-16 CR 32.298 Add the selection model in PDU session information | Huawei | 32.298 | 0754 | - | Rel-16 | A | 5GS\_Ph1-DCH | withdrawn |
| S5-196122 | Rel-16 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | 32.298 | 0755 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196638 | Rel-16 CR 32.298 Correct inconsistent CHF CDR parameter | Huawei | 32.298 | 0755 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196123 | Rel-16 CR 32.298 Add rating indicator and rating failure reason in CHF-CDR | Huawei | 32.298 | 0756 | - | Rel-16 | A | 5GS\_Ph1-DCH | not pursued |
| S5-196126 | Rel-16 32.298 Correction of ASN.1 NetworkFunctionName | Huawei | 32.298 | 0757 | - | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196127 | Rel-16 32.298 Correction of ASN.1 AMFID | Huawei | 32.298 | 0758 | - | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196128 | Rel-16 32.298 Correction of ASN.1 userLocationInformation | Huawei | 32.298 | 0759 | - | Rel-16 | A | 5GS\_Ph1-DCH | revised |
| S5-196733 | Rel-16 32.298 Correction of ASN.1 userLocationInformation | Huawei | 32.298 | 0759 | 1 | Rel-16 | A | 5GS\_Ph1-DCH | agreed |
| S5-196370 | Rel-16 CR 32.298 Correction of Multiple Unit Usage | Ericsson | 32.298 | 0760 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196378 | Rel-16 CR 32.298 Correction of ServingNetworkFunctionID | Ericsson | 32.298 | 0761 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196678 | Rel-15 CR 32.298 Correction of Correction of Network Function ID | Ericsson | 32.298 | 0761 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196415 | Rel-16 CR 32.298 Correction of missing otherQutaType in sMFTrigger | Ericsson | 32.298 | 0762 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-196719 | Rel-16 CR 32.298 Correction of missing otherQutaType in sMFTrigger | Ericsson | 32.298 | 0762 | 1 | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196679 | Rel-15 CR 32.298 Correction of Correction of Network Function ID | Ericsson | 32.298 | 0763 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196720 | Correction of missing otherQutaType in sMFTrigger | Ericsson | 32.298 | 0764 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-196299 | Rel-11 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0082 | - | Rel-11 | F | TEI11 | revised |
| S5-196805 | Rel-11 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0082 | 1 | Rel-11 | F | TEI11 | revised |
| S5-196882 | Rel-11 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0082 | 2 | Rel-11 | F | TEI11 | agreed |
| S5-196300 | Rel-12 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0083 | - | Rel-12 | F | TEI12 | revised |
| S5-196806 | Rel-12 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0083 | 1 | Rel-12 | A | TEI11 | revised |
| S5-196883 | Rel-12 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0083 | 2 | Rel-12 | A | TEI11 | agreed |
| S5-196301 | Rel-13 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0084 | - | Rel-13 | A | TEI11 | revised |
| S5-196807 | Rel-13 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0084 | 1 | Rel-13 | A | TEI11 | revised |
| S5-196884 | Rel-13 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0084 | 2 | Rel-13 | A | TEI11 | agreed |
| S5-196302 | Rel-14 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0085 | - | Rel-14 | A | TEI11 | revised |
| S5-196808 | Rel-14 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0085 | 1 | Rel-14 | A | TEI11 | revised |
| S5-196885 | Rel-14 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0085 | 2 | Rel-14 | A | TEI11 | agreed |
| S5-196303 | Rel-15 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0086 | - | Rel-15 | A | TEI11 | revised |
| S5-196809 | Rel-15 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0086 | 1 | Rel-15 | A | TEI11 | revised |
| S5-196886 | Rel-15 CR TS 32.421 Remove the editor's notes | HUAWEI TECHNOLOGIES Co. Ltd. | 32.421 | 0086 | 2 | Rel-15 | A | TEI11 | agreed |
| S5-196487 | Rel-16 CR TS 32.421 Addition of streaming trace requirements | Nokia | 32.421 | 0087 | - | Rel-16 | B | OAM\_RTT | revised |
| S5-196708 | Rel-16 CR TS 32.421 Addition of streaming trace requirements | Nokia | 32.421 | 0087 | 1 | Rel-16 | B | OAM\_RTT | agreed |
| S5-196503 | Add streaming format for Trace | Ericsson Telecomunicazioni SpA | 32.423 | 0098 | - | Rel-16 | B | OAM\_RTT | not pursued |
| S5-196046 | Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2 | Nokia Solutions & Networks (I) | 32.425 | 0199 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196608 | Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2 | Nokia Solutions & Networks (I) | 32.425 | 0199 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-196838 | Add new Use case related to QCI1 E-RAB establishment via Initial Context Setup into A2 | Nokia Solutions & Networks (I) | 32.425 | 0199 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-196859 | ANR Specification level requirements for E-UTRAN | Ericsson France S.A.S | 32.511 | 0026 | - | Rel-16 | B | SON\_5G | agreed |
| S5-196502 | Correction of NR definition to avoid misalignment with RAN2 | Ericsson Telecomunicazioni SpA | 32.601 | 0007 | - | Rel-15 | F | TEI15 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-196508 |  | LS from NGMN to SA5 on 5G End-to-End Architecture Framework | NGMN | replied to | S5-196765 |
| S5-196509 |  | LS from CT4 ccSA5 on ExternalDoc version number change enhancement to 21.900 | C4-193801 | noted | (none) |
| S5-196510 |  | LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis | GSMA | replied to | S5-196879 |
| S5-196511 |  | LS from ETSI NFV to SA5 on ETSI completes work on YANG models for Virtualised Network Function and Network Services Descriptor specification | ETSI ISG NFV | noted | (none) |
| S5-196512 |  | LS on O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs | O-RAN Alliance | noted | (none) |
| S5-196513 |  | Reply LS to “O-RAN Alliance & 3GPP Coordination on O-RAN Alliance Outputs” | SP-190947 | noted | (none) |
| S5-196514 |  | LS from RAN1 on response to SA5 LS on clarification of OAM requirements for RIM | R1-1909904 | noted | (none) |
| S5-196515 |  | LS from RAN2 ccSA5 on System Impacts of NR-U | R2-1911533 | noted | (none) |
| S5-196516 |  | LS on alignment between SA5 and RAN2 on L2 measurements | R2-1911841 | replied to | S5-196841 |
| S5-196517 |  | LS from RAN3 Reply on radio resource management policy | R3-194550 | postponed | (none) |
| S5-196518 |  | LS from RAN2 to SA5 on radio resource management policy | R2-1911791 | postponed | (none) |
| S5-196519 |  | LS from RAN3 Reply on Data activity reporting | R3-194572 | noted | (none) |
| S5-196520 |  | Ls from RAN3 Reply on User Data Congestion Analytics | R3-194749 | postponed | (none) |
| S5-196521 |  | LS from RAN3 ccSA5 on the IAB-indication to core network | R3-194787 | noted | (none) |
| S5-196522 |  | Reply LS from SA6 ccSA5 on 3GPP SA6 Study on Edge Computing | S6-191841 | postponed | ???? |
| S5-196523 |  | Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management | ETSI ISG ZSM | replied to | S5-196819 |
| S5-196527 |  | Resubmitted Reply LS from RAN2 to SA5 on the user plane latency measurement | R2-1908144 | noted | (none) |
| S5-196528 |  | Resubmitted LS from GSMA to SA2 and SA5 on VoWiFi – VoLTE handover | GSMA | postponed | (none) |
| S5-196529 |  | Resubmitted LS from ITU-T to SA5 on cooperation on methodology harmonization and REST-based network management framework (reply to 3GPPTSGSA5-S5-185553 and 3GPP TSG SA5 - S5-187340) | ITU-T SG2 | postponed | (none) |
| S5-196540 |  | LS/r on Energy Efficiency on 5G (3GPP TSG SA5-S5-195667) | ITU-T SG5 | postponed | (none) |
| S5-196764 |  | LS to SA5 and SA2 on 5G Cell ID(s) in the 3GPP SA5 billing system, related to Retained Data regulations | ETSI TC LI | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-196765 | LS reply from 3GPP SA5 to NGMN on 5G End-to-End Architecture Framework | NGMN | 3GPP TSG RAN, TSG SA, TSG SA WG2, TSG SA WG3, TSG SA WG6 | S5-196508 |
| S5-196771 | LS to RAN3 on energy efficiency of 5G | RAN3 | SA, RAN2 | - |
| S5-196792 | LS on 3GPP – ONAP Cooperation & WoW | ONAP | - | - |
| S5-196819 | Reply to: Liaison from ETSI ISG ZSM to 3GPP SA5 Network slicing performance assurance and fault management | ETSI ISG ZSM | - | S5-196523 |
| S5-196840 | LS to RAN3 on QoS monitoring for URLLC | RAN3 | SA2 | - |
| S5-196841 | Reply to: LS on alignment between SA5 and RAN2 on L2 measurements | RAN2 | - | S5-196516 |
| S5-196868 | LS to GSMA on GST | GSMA 5GJA | 3GPP SA, ETSI ISG ZSM | - |
| S5-196879 | Reply to: LS from GSMA NEST to SA5 on End-to-End Network Slicing Gap analysis | GSMA | SA | S5-196510 |
| S5-196891 | LS to SA on GSMA GST/NEST translation | SA | SA2 | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-196881 | New SID on network slice management enhancements | Huawei | SID new |
| S5-196542 | New WID Charging Access Traffic Steering, Switching and Splitting in 5G system architecture | Nokia, Nokia Shanghai Bell | WID new |
| S5-196543 | NWI on Charging for 5WWC | Huawei Telecommunication India | WID new |
| S5-196544 | New WID CHF-controlled quota management | Amdocs Software Systems Ltd | WID new |
| S5-196584 | New WID on management of MDT in 5G | Ericsson Telecomunicazioni SpA | WID new |
| S5-196880 | New WID network policy management for 5G mobile networks based on NFV scenarios | China Mobile Com. Corporation | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-196055 | 28.535 | 0.0.0 | Management and orchestration; Management Services for Communication Service Assurance; Requirements |
| S5-196056 | 28.536 | 0.0.0 | Management and orchestration; Management Services for Communication Service Assurance; Stage 2 and stage 3 |
| S5-196174 | 28.312 | 0.0.0 | TS 28.312\_000 |
| S5-196192 | 28.313 | 0.0.0 | draft TS 28313-000 |
| S5-196193 | 28.544 | 0.0.0 | dtaft TS 28544-000 |
| S5-196391 | 28.810 | 0.0.0 | Study on concept, requirements and solutions for levels of autonomous network |
| S5-196563 | 32.256 | 1.1.0 | Draft TS 32.256 |
| S5-196564 | 28.201 | 0.1.0 | Draft TS 28.201 |
| S5-196618 | 28.535 | 0.1.0 | Draft TS 28.535 |
| S5-196645 | 28.310 | 1.1.0 | Draft TS 28.310 |
| S5-196652 | 28.812 | 0.8.0 | Draft TR 28.812 |
| S5-196668 | 28.405 | 1.1.0 | Draft TS 28.405 |
| S5-196669 | 28.406 | 0.1.0 | Draft TS 28.406 |
| S5-196671 | 28.313 | 0.0.0 | draft TS 28313-000 |
| S5-196688 | 32.845 | 1.1.0 | Draft TR 32.845 |
| S5-196738 | 28.810 | 0.1.0 | Draft TR 28.810 |
| S5-196743 | 28.536 | 0.1.0 | Draft TS 28.536 |
| S5-196832 | 28.311 | 0.5.0 | Draft TS 28.311 |
| S5-196851 | 28.535 | 0.1.0 | Draft TS 28.535 |
| S5-196852 | 28.536 | 0.1.0 | Draft TS 28.536 |
| S5-196856 | 28.313 | 0.1.0 | Draft TS 28.313 |
| S5-196869 | 28.861 | 1.1.0 | Draft TR 28.861 |
| S5-196873 | 28.807 | 0.2.0 | Draft TR 28.807 |
| S5-196874 | 28.808 | 0.30 | Draft TR 28.808 |
| S5-196875 | 28.809 | 0.1.0 | Draft TR 28.809 |

## Annex F: List of participants

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Employer Category Code | Organization Represented | Organization Represented Category Code |
| Dr. | Al-kanani | Hassan | NEC Europe Ltd | ETSI | NEC Corporation | ARIB |
| Mr. | Andrianov | Anatoly | Nokia Germany | ETSI | Nokia | ATIS |
| Mrs. | Ayani | Zhulia | Ericsson LM | ETSI | Ericsson Telecomunicazioni SpA | ETSI |
| Mr. | Braam | Sjors | TNO | ETSI | KPN N.V. | ETSI |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI | ETSI | ETSI |
| Ms. | Chen | Na | China Telecommunications | ETSI | China Telecomunication Corp. | CCSA |
| Miss | CHEN | SHAN | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies Sweden AB | ETSI |
| Miss | Chen | Xiumin | China Telecommunications | ETSI | China Telecommunications | ETSI |
| Mr. | Chou | Joey | Intel Corporation (UK) Ltd | ETSI | Intel Corporation (UK) Ltd | ETSI |
| Dr. | Cornily | Jean Michel | Orange | ETSI | Orange Spain | ETSI |
| Mr. | Drijver | Floris | TNO | ETSI | TNO | ETSI |
| Mr. | Edwards | Robert | Matrixx | ETSI | Matrixx | ETSI |
| Mr. | Elmdahl | Per | Ericsson France S.A.S | ETSI | Ericsson France S.A.S | ETSI |
| Mr. | Fang | Bo | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mrs. | Gardella | Maryse | Nokia France | ETSI | Nokia Uk | ETSI |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | ETSI | Samsung Electronics France SA | ETSI |
| Mr. | Groenendijk | Jan | Ericsson LM | ETSI | L.M. Ericsson Limited | ETSI |
| Miss | Guo | Shasha | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Harper | Colby | Pivotal Commware | ATIS | Pivotal Commware | ATIS |
| Mr. | Horvat | Attila | Huawei Technologies Sweden AB | ETSI | HUAWEI TECH. GmbH | ETSI |
| Mr. | Jerbi | Walid | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| Miss | JIA | Xiaoqian | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Device Co., Ltd | CCSA |
| Mr. | Klotz | Michael | Deutsche Telekom AG | ETSI | Deutsche Telekom AG | ETSI |
| Dr. | Kollar | Martin | Nokia Solutions & Networks (I) | TSDSI | Nokia Solutions & Networks (I) | TSDSI |
| Dr. | Lagha | Naceur | Amdocs Software Systems Ltd | ETSI | Amdocs Software Systems Ltd | ETSI |
| Mr. | Lengyel | Balazs | Ericsson Hungary Ltd | ETSI | Ericsson Hungary Ltd | ETSI |
| Mr. | Li | Duan | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Li | Gang | Nanjing Ericsson Panda Com Ltd | CCSA | Nanjing Ericsson Panda Com Ltd | CCSA |
| Mr. | Mao | Binhong | China Telecommunications | ETSI | China Telecom Corporation Ltd. | CCSA |
| Mr. | McNamee | Alan | Openet Telecom | ETSI | Openet Telecom | ETSI |
| Ing. | Moggio | Fabrizio | TELECOM ITALIA S.p.A. | ETSI | TELECOM ITALIA S.p.A. | ETSI |
| Dr. | Mwanje | Stephen | Nokia | ATIS | Nokia Germany | ETSI |
| Mr. | Ordonez-Lucena | Jose | TELEFONICA S.A. | ETSI | TELEFONICA S.A. | ETSI |
| Mr. | Petersen | Robert | Ericsson LM | ETSI | Oy LM Ericsson AB | ETSI |
| Miss | Ping | Jing | Nokia Germany | ETSI | Nokia Shanghai Bell | CCSA |
| Dr. | Pollakowski | Olaf | Nokia Germany | ETSI | Nokia Corporation | ETSI |
| Mr. | Potter | Benjamin | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Dr. | Senarath | Gamini | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | HUAWEI Technologies Japan K.K. | ARIB |
| Ms. | Shi | Xiaonan | China Mobile Research Inst. | | China Mobile E-Commerce Co. | CCSA |
| Mr. | Shu | Min | CATT | ETSI | CATT | CCSA |
| Mr. | Smith | David K. | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL | ETSI |
| Mr. | Srivastava | Pramugdh | NEC Corporation | ETSI | NEC Corporation | ETSI |
| Mr. | Törnkvist | Robert | Ericsson LM | ETSI | Ericsson Limited | ETSI |
| Mr. | Tovinger | Thomas | Ericsson LM | ETSI | Ericsson LM | ETSI |
| Mr. | Tse | Edwin | Ericsson LM | ETSI | Ericsson GmbH, Eurolab | ETSI |
| Mr. | XING | XIAOCHENG | Huawei Technologies Co. Ltd. | ETSI | HuaWei Technologies Co., Ltd | CCSA |
| Mr. | Xu | Ruiyue | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies France | ETSI |
| Mr. | YAN | XI | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | ETSI | Intel Finland Oy | ETSI |
| Mr. | Zhang | Jian | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | HuaWei Technologies Co., Ltd | CCSA |
| Mr. | Zhang | Kai | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies (Korea) | TTA |
| Mr. | Zhang | Xiaojing | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Dr. | Zhang | Yang | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation | CCSA |
| Mr. | Zhu | Lei | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Telecommunication India | TSDSI |
| Mr. | Zhu | Weihong | ZTE Corporation | ETSI | ZTE Corporation | ETSI |
| Mr. | Zieba | Arkadiusz | Nokia Solutions & Networks (I) | TSDSI | Nokia Solutions & Networks (I) | TSDSI |
| Miss | Zou | Lan | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies Co. Ltd. | ETSI |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#128 | 2019-11-18 | 2019-11-22 | Zhuhai | CN | S5-128 |
| SA5#129 | 2020-02-24 | 2020-02-28 | Hyderabad | IN | S5-129 |