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

**Meeting Report  
for  
TSG SA WG5  
meeting: 131e**

**e-meeting, Online, 25/05/2020 to 03/06/2020**

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## 1 Opening of the meeting

**NOTE: minutes of the discussions taken by the Chair and vice Chair can be found in tdoc S5-203007.**

## 2 Approval of the agenda

**S5-203000 Agenda**

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

**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.

## 4 Meetings and activities reports

### 4.1 Last SA5 meeting report

**S5-203001 Report from last SA5 meeting**

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

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

### 4.2 Last SA meeting report

### 4.3 Inter-organizational reports

## 5 Cross-SWG issues

### 5.1 Administrative issues at SA5 level

**S5-203002 SA5#131e e-meeting process**

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

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

**S5-203003 Post SA5#130e Email approval status**

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

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

**S5-203021 Rel-17 time plan proposal for OAM**

*Type: other For: Presentation  
 Source: SA5 Vice chair (Huawei)*

(Replaces S5-201349)

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

**S5-203270 Revision of SA5 ToR**

*Type: other For: (not specified)  
 Source: Ericsson, Nokia, Huawei*

**Decision:** The document was **revised to S5-203367**.

**S5-203367 Revision of SA5 ToR**

*Type: other For: Agreement  
 Source: Ericsson, Nokia, Huawei*

(Replaces S5-203270)

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

### 5.2 Technical issues at SA5 level

### 5.3 Liaison statements at SA5 level

**S5-203024 LS reply to SA5 on GST attributes and on NG.116 publication and future co-operation.**

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

**Decision:** The document was **replied to in S5-203370**.

**S5-203370 LS on SA5 Rel-17 work on SLA**

*Type: LS out For: approval  
 to GSMA 5GJA, 3GPP SA2, RAN3, IETF TEAS WG, cc 3GPP SA, SA1, SA6, RAN2, ETSI ISG ZSM  
 Source: China Mobile*

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

**S5-203033 Reply LS ccSA5 on support for eCall over NR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2003308*

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

**S5-203035 Resubmitted Reply LS to SA5 on support for eCall over NR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-200287*

**Decision:** The document was **replied to in S5-203369**.

**S5-203050 Reply LS to SA to Reply LS on support for eCall over NR**

*Type: LS out For: Agreement  
 to SA, cc SA2, RAN2, CT1, RAN5, SA1, SA4, RAN, CT  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203369**.

**S5-203369 Reply LS to SA to Reply LS on support for eCall over NR**

*Type: LS out For: Agreement  
 to SA, cc SA WG2, RAN WG2, CT WG1, RAN WG5, SA WG1, SA WG4, TSG RAN, TSG CT  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203050)

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

**S5-203243 LS to 5GJA on SA5 Rel-17 work in SLA**

*Type: LS out For: Agreement  
 to 5GJA, 3GPP SA2, RAN3, IETF TEAS WG  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-203370**.

### 5.4 SA5 meeting calendar

### 5.5 Review of the Work Plan

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-203004 OAM&P SWG action list**

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

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

**S5-203005 SA5#131e\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

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

**S5-203006 SA5#131e OAM Exec Report**

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

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

**S5-203007 SA5#131e OAM Chair notes and conclusions**

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

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

**S5-203025 LS to SA5 on NGMN Continuous Delivery in Telecommunication Network Environments**

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

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

**S5-203026 Ls reply to SA5 on Energy Efficiency for 5G**

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

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

**S5-203028 Ls reply to S5-197831**

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

**Decision:** The document was **replied to in S5-203314**.

**S5-203314 Reply LS to ONAP LS on S5-197831**

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

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

**S5-203029 LS reply to S5-202300**

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

**Decision:** The document was **replied to in S5-203313**.

**S5-203313 Reply LS to ONAP LS on S5-202300**

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

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

**S5-203030 Reply LS to SA5 on energy efficiency**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-197745*

**Decision:** The document was **replied to in S5-203016**.

**S5-203031 Resubmitted Ls to SA5 on removal of Management Based MDT Allowed IE for NR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-201437*

**Decision:** The document was **replied to in S5-203410**.

**S5-203410 Reply LS to LS on removal of Management Based MDT Allowed IE for NR**

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

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

**S5-203034 Reply LS ccSA5 on QoS Monitoring for URLLC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2003468*

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

**S5-203036 LS to SA5 on O-RAN – 3GPP Cooperation on Management Services**

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

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

**S5-203166 LS to CT4 on MDT specific configuration parameters in NR**

*Type: LS out For: Action  
 to 3GPP CT4  
 Source: Oy LM Ericsson AB*

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

**S5-203210 Rel-16 OAM Stage2 and Stage3 Mapping Status**

*Type: discussion For: Endorsement  
 Source: Huawei Technologies (Korea)*

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

**S5-203211 Overview of the 5G specification structure**

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

(Replaces S5-197548)

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

**S5-203308 LS from GSMA NEST ccSA5 for mapping with slices of different domains via Cross-domain OAM coordination**

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

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

**S5-203309 LS from GSMA NEST to SA5 for mapping with slices of different domains via Cross-domain OAM coordination**

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

**Decision:** The document was **replied to in S5-203459**.

**S5-203261 Reply to:LS on mapping with slices of different domains via Cross-domain OAM coordination**

*Type: LS out For: approval  
 to GSMA NEST,ETSI ISG ZSM  
 Source: KDDI*

**Decision:** The document was **revised to S5-203459**.

**S5-203459 Reply to:LS on mapping with slices of different domains via Cross-domain OAM coordination**

*Type: LS out For: approval  
 to GSMA NEST, cc ETSI ISG ZSM  
 Source: KDDI*

(Replaces S5-203261)

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

### 6.2 New OAM&P Work Item proposals

**S5-203052 New WID Enhancements of 5G performance measurements and KPIs**

*Type: WID new For: Approval  
 Source: Intel, China Telecom, CMCC, Samsung*

**Decision:** The document was **revised to S5-203324**.

**S5-203324 New WID Enhancements of 5G performance measurements and KPIs**

*Type: WID new For: Approval  
 Source: Intel, China Telecom, CMCC, Samsung*

(Replaces S5-203052)

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

**S5-203096 New WID on Network slicing capability model**

*Type: WID new For: Approval  
 Source: Huawei Technologies France*

**Decision:** The document was **revised to S5-203323**.

**S5-203323 New WID on Network slicing capability model**

*Type: WID new For: Approval  
 Source: Huawei Technologies France*

(Replaces S5-203096)

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

**S5-203138 Discussion on network slice capability model**

*Type: discussion For: Approval  
 Source: Huawei Technologies France*

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

**S5-203140 Discussion on network slice capability model**

*Type: discussion For: Endorsement  
 Source: Huawei Technologies France*

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

**S5-203141 new WID for management enhancement for eTenant for release 17**

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

**Decision:** The document was **revised to S5-203325**.

**S5-203325 new WID for management enhancement for eTenant for release 17**

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

(Replaces S5-203141)

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

**S5-203146 Revised WID on Discovery of management services in 5G**

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

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

**S5-203220 New WID on autonomous network levels**

*Type: WID new For: Approval  
 Source: China Mobile, Huawei, China Telecom, CATT*

**Decision:** The document was **revised to S5-203326**.

**S5-203326 New WID on autonomous network levels**

*Type: WID new For: Approval  
 Source: China Mobile, Huawei, China Telecom, CATT*

(Replaces S5-203220)

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

**S5-203245 New WID on Enhancement of Handover Optimization**

*Type: WID new For: Approval  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-203362**.

**S5-203362 New WID on Enhancement of Handover Optimization**

*Type: WID new For: Approval  
 Source: Ericsson France S.A.S*

(Replaces S5-203245)

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

**S5-203269 New WID on Management data collection control and discovery**

*Type: WID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203327**.

**S5-203327 New WID on Management data collection control and discovery**

*Type: WID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203269)

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

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

**S5-203022 Rel-16 CR TS 32.422 Adding SINR measurement in M1 for Immediate MDT**

*Type: CR For: Agreement  
 32.422 v16.1.0 CR-0322 Cat: F (Rel-16)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-203391**.

**S5-203391 Rel-16 CR TS 32.422 Adding SINR measurement in M1 for Immediate MDT**

*Type: CR For: Agreement  
 32.422 v16.1.0 CR-0322 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-203022)

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

**S5-203023 Rel-16 CR TS 32.423 Adding SINR measurement in M1 for Immediate MDT**

*Type: CR For: Agreement  
 32.423 v16.0.0 CR-0113 Cat: F (Rel-16)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-203392**.

**S5-203392 Rel-16 CR TS 32.423 Adding SINR measurement in M1 for Immediate MDT**

*Type: CR For: Agreement  
 32.423 v16.0.0 CR-0113 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-203023)

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

**S5-203152 Add MDT additional configuration information for MDT reporting in NR**

*Type: CR For: Agreement  
 32.422 v16.1.0 CR-0323 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-203154 Rel-15 CR 28.531 Correction on AllocateNsi procedure**

*Type: CR For: Approval  
 28.531 v15.5.0 CR-0048 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-203155 Rel-16 CR 28.531 Correction on AllocateNsi procedure**

*Type: CR For: Approval  
 28.531 v16.5.0 CR-0049 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-203156 Rel-15 CR 28.531 Correction on DeallocateNsi procedure**

*Type: CR For: Approval  
 28.531 v15.5.0 CR-0050 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-203157 Rel-16 CR 28.531 Correction on DeallocateNsi procedure**

*Type: CR For: Approval  
 28.531 v16.5.0 CR-0051 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-203167 Rel-6 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v6.5.0 CR-0324 Cat: F (Rel-6)  
  
 Source: Huawei*

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

**S5-203168 Rel-7 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v7.3.0 CR-0325 Cat: F (Rel-7)  
  
 Source: Huawei*

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

**S5-203169 Rel-8 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v8.9.0 CR-0326 Cat: F (Rel-8)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203393**.

**S5-203393 Rel-8 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v8.9.0 CR-0326 rev 1 Cat: F (Rel-8)  
  
 Source: Huawei*

(Replaces S5-203169)

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

**S5-203170 Rel-9 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v9.6.0 CR-0327 Cat: A (Rel-9)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203394**.

**S5-203394 Rel-9 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v9.6.0 CR-0327 rev 1 Cat: A (Rel-9)  
  
 Source: Huawei*

(Replaces S5-203170)

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

**S5-203171 Rel-10 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v10.13.0 CR-0328 Cat: A (Rel-10)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203395**.

**S5-203395 Rel-10 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v10.13.0 CR-0328 rev 1 Cat: A (Rel-10)  
  
 Source: Huawei*

(Replaces S5-203171)

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

**S5-203172 Rel-11 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v11.12.0 CR-0329 Cat: A (Rel-11)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203396**.

**S5-203396 Rel-11 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v11.12.0 CR-0329 rev 1 Cat: A (Rel-11)  
  
 Source: Huawei*

(Replaces S5-203172)

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

**S5-203173 Rel-12 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v12.4.0 CR-0330 Cat: F (Rel-12)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203397**.

**S5-203397 Rel-12 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v12.4.0 CR-0330 rev 1 Cat: F (Rel-12)  
  
 Source: Huawei*

(Replaces S5-203173)

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

**S5-203174 Rel-13 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v13.0.0 CR-0331 Cat: A (Rel-13)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203398**.

**S5-203398 Rel-13 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v13.0.0 CR-0331 rev 1 Cat: A (Rel-13)  
  
 Source: Huawei*

(Replaces S5-203174)

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

**S5-203175 Rel-14 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v14.0.0 CR-0332 Cat: A (Rel-14)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203399**.

**S5-203399 Rel-14 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v14.0.0 CR-0332 rev 1 Cat: A (Rel-14)  
  
 Source: Huawei*

(Replaces S5-203175)

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

**S5-203176 Rel-15 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v15.3.0 CR-0333 Cat: A (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203400**.

**S5-203400 Rel-15 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v15.3.0 CR-0333 rev 1 Cat: A (Rel-15)  
  
 Source: Huawei*

(Replaces S5-203176)

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

**S5-203177 Rel-16 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v16.1.0 CR-0334 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203401**.

**S5-203401 Rel-16 CR TS 32.422 clean up of the editor notes**

*Type: CR For: Agreement  
 32.422 v16.1.0 CR-0334 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203177)

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

**S5-203179 Rel-15 CR TS 28.550 Add description for MnS components used for configurable performance control**

*Type: CR For: Agreement  
 28.550 v15.4.0 CR-0055 Cat: F (Rel-15)  
  
 Source: HUAWEI Technologies Japan K.K.,Intel*

**Decision:** The document was **revised to S5-203402**.

**S5-203402 Rel-15 CR TS 28.550 Add description for MnS components used for configurable performance control**

*Type: CR For: Agreement  
 28.550 v15.4.0 CR-0055 rev 1 Cat: F (Rel-15)  
  
 Source: HUAWEI Technologies Japan K.K.,Intel*

(Replaces S5-203179)

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

**S5-203180 Rel-16 CR TS 28.550 Add description for MnS components used for configurable performance control**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0056 Cat: A (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.,Intel*

**Decision:** The document was **revised to S5-203403**.

**S5-203403 Rel-16 CR TS 28.550 Add description for MnS components used for configurable performance control**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0056 rev 1 Cat: A (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.,Intel*

(Replaces S5-203180)

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

**S5-203181 Rel-16 CR TS 28.545 Add description for MnS components used for configurable FM contro**

*Type: CR For: Agreement  
 28.545 v15.1.0 CR-0005 Cat: B (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.*

**Decision:** The document was **revised to S5-203404**.

**S5-203404 Rel-16 CR TS 28.545 Add description for MnS components used for configurable FM contro**

*Type: CR For: Agreement  
 28.545 v15.1.0 CR-0005 rev 1 Cat: B (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.*

(Replaces S5-203181)

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

**S5-203182 Rel-15 CR TS 28.532 Move XML file format definition from stage2 to stage3**

*Type: CR For: Agreement  
 28.532 v15.5.0 CR-0122 Cat: F (Rel-15)  
  
 Source: HUAWEI Technologies Japan K.K.*

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

**S5-203183 Rel-16 CR TS 28.532 Move XML file format definition from stage2 to stage3**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0123 Cat: A (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.*

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

**S5-203184 Rel-15 CR TS 28.545 Update Clause 8 Virtualized resource alarm correlation**

*Type: CR For: Agreement  
 28.545 v15.1.0 CR-0006 Cat: F (Rel-15)  
  
 Source: HUAWEI Technologies Japan K.K.*

**Decision:** The document was **revised to S5-203412**.

**S5-203412 Rel-15 CR TS 28.545 Update Clause 8 Virtualized resource alarm correlation**

*Type: CR For: Agreement  
 28.545 v15.1.0 CR-0006 rev 1 Cat: F (Rel-15)  
  
 Source: HUAWEI Technologies Japan K.K.*

(Replaces S5-203184)

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

**S5-203193 Reply LS to LS on removal of Management Based MDT Allowed IE for NR**

*Type: LS out For: Agreement  
 to RAN3, cc RAN2  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-203410**.

**S5-203194 Correction of references**

*Type: CR For: Agreement  
 28.541 v15.5.0 CR-0304 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-203405**.

**S5-203405 Correction of references**

*Type: CR For: Agreement  
 28.541 v15.5.0 CR-0304 rev 1 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-203194)

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

**S5-203195 Correction of references**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0305 Cat: A (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-203406**.

**S5-203406 Correction of references**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0305 rev 1 Cat: A (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-203195)

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

**S5-203197 Correct and align notifyNewSecurityAlarm**

*Type: CR For: Agreement  
 28.532 v15.5.0 CR-0124 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

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

**S5-203198 Correct and align notifyNewSecurityAlarm**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0125 Cat: A (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-203214 Add 5G specification information**

*Type: CR For: (not specified)  
 32.103 v15.0.0 CR-0018 Cat: F (Rel-15)  
  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-203413**.

**S5-203413 Add 5G specification information**

*Type: CR For: -  
 32.103 v15.0.0 CR-0018 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei Technologies (Korea)*

(Replaces S5-203214)

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

**S5-203252 Rel-16 CR 28.532 Update Fault Supervision MnS (stage 2)**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0126 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203407**.

**S5-203407 Rel-16 CR 28.532 Update Fault Supervision MnS (stage 2)**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0126 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203252)

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

**S5-203253 TD proposal to add transport endpoint in NRM**

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

**Decision:** The document was **revised to S5-203419**.

**S5-203419 TD proposal to add transport endpoint in NRM**

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

(Replaces S5-203253)

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

**S5-203254 add transport information and slice mapping on backhaul endpoints**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0306 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203420**.

**S5-203420 add transport information and slice mapping on backhaul endpoints**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0306 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203254)

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

**S5-203256 update slice NRM based on refined slice definitions**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0308 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Intel*

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

**S5-203257 update slice NRM based on refined slice definitions stage 3**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0309 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Intel*

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

**S5-203258 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0027 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203411**.

**S5-203411 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0027 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203258)

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

**S5-203263 Rel-16 CR 28.532 Update Fault Supervision MnS (REST SS)**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0127 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203408**.

**S5-203408 Rel-16 CR 28.532 Update Fault Supervision MnS (REST SS)**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0127 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203263)

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

**S5-203264 Rel-16 CR 28.532 Update Fault Supervision MnS (OpenAPI definitions)**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0128 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203409**.

**S5-203409 Rel-16 CR 28.532 Update Fault Supervision MnS (OpenAPI definitions)**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0128 rev 1 Cat: C (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203264)

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

**S5-203265 Rel-16 CR 28.532 Remove voided notes from the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0129 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203267 Rel-16 CR 28.532 Applicability of Solution Sets**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0130 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203285 Rel-16 CR 28.550 Convert performance measurement job control service API to YAML**

*Type: CR For: Approval  
 28.550 v16.4.0 CR-0058 Cat: C (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-203304 Rel-16 CR 28.531 Correction of provisioning services and procedures**

*Type: CR For: Approval  
 28.531 v16.5.0 CR-0052 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Orange*

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

**S5-203310 Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part**

*Type: CR For: Agreement  
 32.158 v15.4.0 CR-0012 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei,Nokia*

(Replaces S5-202363)

**Abstract:**

Revision of agreed CR S5-202363 to align the URI structure

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

**S5-203311 Rel-16 CR TS 28.532 Update URI for performance data file reporting service**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0115 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202362)

**Abstract:**

Revision of CR S5-202362 to align the URI strcuture

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

**S5-203312 Rel-16 CR TS 28.532 Update URI for generic fault supervision management service**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0114 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202361)

**Abstract:**

Revision of agreed CR S5-202361 to align the URI structure

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

**S5-203315 Correction of ONAP references**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0133 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-203388 Rel-16 CR 28.530 Clarification on network slice related identifiers**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0025 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Intel, Huawei*

(Replaces S5-202366)

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

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

#### 6.4.1 Management of QoE measurement collection

**S5-203271 pCR R16 28308-030 Addition of QMC operations and notifications**

*Type: pCR For: (not specified)  
 28.308 v0.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203328**.

**S5-203328 pCR R16 28308-030 Addition of QMC operations and notifications**

*Type: pCR For: -  
 28.308 v0.4.0  
 Source: Ericsson*

(Replaces S5-203271)

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

**S5-203273 pCR R16 28405-130 Alignment of QMC terminology**

*Type: pCR For: (not specified)  
 28.405 v1.3.0  
 Source: Ericsson*

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

**S5-203317 draft TS 28.308**

*Type: draft TS For: Approval  
 28.308 v0.5.0  
 Source: Ericsson*

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

**S5-203318 draft TS 28.405**

*Type: draft TS For: Approval  
 28.405 v1.4.0  
 Source: Ericsson*

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

**S5-203352 Presentation sheet for 28.307 for information and approval**

*Type: TS or TR cover For: Approval  
 28.307 v..  
 Source: Ericsson*

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

**S5-203353 Presentation sheet for 28.308 for information and approval**

*Type: TS or TR cover For: Approval  
 28.308 v..  
 Source: Ericsson*

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

**S5-203354 Presentation sheet for 28.405 For approval**

*Type: TS or TR cover For: Approval  
 28.405 v..  
 Source: Ericsson*

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

**S5-203355 Presentation sheet for 28.406 For information and approval**

*Type: TS or TR cover For: Approval  
 28.406 v..  
 Source: Ericsson*

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

**S5-203356 TS skeleton for 28.309**

*Type: draft TS For: Approval  
 28.309 v0.0.0  
 Source: Ericsson*

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

**S5-203357 Rel-16 Exception request for QOED**

*Type: WI exception request For: Agreement  
 Source: Ericsson*

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

#### 6.4.2 Energy Efficiency of 5G

**S5-203160 Rel-16 CR 28.310 Update on D-SON ES solution management service**

*Type: CR For: Approval  
 28.310 v16.0.0 CR-0001 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203332**.

**S5-203332 Rel-16 CR 28.310 Update on D-SON ES solution management service**

*Type: CR For: Approval  
 28.310 v16.0.0 CR-0001 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203160)

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

**S5-203161 Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0301 Cat: B (Rel-16)  
  
 Source: Huawei, Orange*

**Decision:** The document was **revised to S5-203333**.

**S5-203333 Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0301 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Orange*

(Replaces S5-203161)

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

**S5-203358 Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation Stage 3**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0319 Cat: B (Rel-16)  
  
 Source: Huawei,Orange*

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

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

**S5-203017 Modification of “Distribution of Normally Released Call (5QI 1 QoS Flow) Duration” and “Distribution of Abnormally Released Call (5QI 1 QoS Flow) Duration” measurements.**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0228 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

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

**S5-203054 Add KPIs on integrated uplink delay in NG-RAN**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0047 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-203055 Add KPIs on integrated downlink delay in NG-RAN**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0048 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd,Ericsson*

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

**S5-203056 Add KPIs on e2e UL delay for network slice**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0049 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203338**.

**S5-203338 Add KPIs on e2e UL delay for network slice**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0049 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203056)

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

**S5-203057 Add KPIs on e2e DL delay for network slice**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0050 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203339**.

**S5-203339 Add KPIs on e2e DL delay for network slice**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0050 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203057)

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

**S5-203058 Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0215 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-202105)

**Decision:** The document was **revised to S5-203342**.

**S5-203342 Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0215 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-203058)

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

**S5-203059 Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0216 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-202106)

**Decision:** The document was **revised to S5-203343**.

**S5-203343 Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0216 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-203059)

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

**S5-203060 Rel-16 CR 28.552 Add measurements on N9 interface for UPF**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0229 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-203348**.

**S5-203348 Rel-16 CR 28.552 Add measurements on N9 interface for UPF**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0229 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-203060)

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

**S5-203080 Rel-16 CR TS 28.552 Addition of authentication measurements for AMF**

*Type: CR For: (not specified)  
 28.552 v16.5.0 CR-0231 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

**Decision:** The document was **revised to S5-203344**.

**S5-203344 Rel-16 CR TS 28.552 Addition of authentication measurements for AMF**

*Type: CR For: -  
 28.552 v16.5.0 CR-0231 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

(Replaces S5-203080)

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

**S5-203081 Rel-16 CR TS 28.552 Addition of system resource average load measurement for SMF**

*Type: CR For: (not specified)  
 28.552 v16.5.0 CR-0232 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

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

**S5-203085 R16 CR TS28.552 ADD UL Cell PDCP SDU Data Volume on Xn Interface**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0233 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-203086 R16 CR TS28.552 Add UE power headroom Measurement**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0234 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S5-203334**.

**S5-203334 R16 CR TS28.552 Add UE power headroom Measurement**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0234 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

(Replaces S5-203086)

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

**S5-203087 Rel-16 CR TS 28.552 Addition of QoS flow measurements for UPF**

*Type: CR For: (not specified)  
 28.552 v16.5.0 CR-0235 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

**Decision:** The document was **revised to S5-203345**.

**S5-203345 Rel-16 CR TS 28.552 Addition of QoS flow measurements for UPF**

*Type: CR For: -  
 28.552 v16.5.0 CR-0235 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

(Replaces S5-203087)

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

**S5-203088 R16 CR TS28.552 Modify DL Cell PDCP SDU Data Volume on Xn Interface**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0236 Cat: F (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

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

**S5-203089 R16 CR TS28.552 Add Paging Measurement**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0237 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S5-203349**.

**S5-203349 R16 CR TS28.552 Add Paging Measurement**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0237 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

(Replaces S5-203089)

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

**S5-203090 Rel-16 CR TS 28.552 Addition of AM policy association update measurements for PCF**

*Type: CR For: (not specified)  
 28.552 v16.5.0 CR-0238 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

**Decision:** The document was **revised to S5-203346**.

**S5-203346 Rel-16 CR TS 28.552 Addition of AM policy association update measurements for PCF**

*Type: CR For: -  
 28.552 v16.5.0 CR-0238 rev 1 Cat: B (Rel-16)  
  
 Source: China Mobile Com. Corporation,ZTE*

(Replaces S5-203090)

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

**S5-203091 R16 CR TS28.552 Add Number of UE and MAC data volume related SSB beam index Measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0239 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S5-203350**.

**S5-203350 R16 CR TS28.552 Add Number of UE and MAC data volume related SSB beam index Measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0239 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

(Replaces S5-203091)

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

**S5-203092 R16 CR TS28.552 Add Power utilization measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0240 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S5-203335**.

**S5-203335 R16 CR TS28.552 Add Power utilization measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0240 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Mobile*

(Replaces S5-203092)

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

**S5-203216 Rel-16 CR TS 28.552 update the descriptions of PRB related measurements**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0241 Cat: F (Rel-16)  
  
 Source: HuaWei Technologies Co., Ltd*

**Decision:** The document was **revised to S5-203347**.

**S5-203347 Rel-16 CR TS 28.552 update the descriptions of PRB related measurements**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0241 rev 1 Cat: F (Rel-16)  
  
 Source: HuaWei Technologies Co., Ltd*

(Replaces S5-203216)

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

**S5-203274 Discussion paper around KPI aggregation**

*Type: discussion For: Endorsement  
 28.554 v..  
 Source: Ericsson LM*

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

**S5-203276 Add KPIs for UL packet delay in NG-RAN**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0051 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-203340**.

**S5-203340 Add KPIs for UL packet delay in NG-RAN**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0051 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM, Intel*

(Replaces S5-203276)

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

**S5-203278 Correction of Integrated downlink delay in RAN KPI**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0052 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-203341**.

**S5-203341 Correction of Integrated downlink delay in RAN KPI**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0052 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM, Intel*

(Replaces S5-203278)

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

**S5-203302 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0242 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203336**.

**S5-203336 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0242 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203302)

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

**S5-203303 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.554 v16.4.0 CR-0053 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203337**.

**S5-203337 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.554 v16.4.0 CR-0053 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203303)

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

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

**S5-203129 Rel 15 CR MnS Query**

*Type: CR For: Agreement  
 28.533 v15.4.0 CR-0069 Cat: F (Rel-15)  
  
 Source: Samsung Electronics France SA*

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

**S5-203143 Rel-16 CR TS 28.533 Clarify the MnS producer profile**

*Type: CR For: Agreement  
 28.533 v16.3.0 CR-0070 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203144 Rel-16 CR TS 28.622 Clarify systemDN usage for MnS producer profile**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0081 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203145 Rel-16 CR TS 28.623 Clarify systemDN usage for MnS producer profile**

*Type: CR For: Agreement  
 28.623 v16.3.2 CR-0083 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203372 Rel-16 Exception request for 5GDMS**

*Type: WI exception request For: Agreement  
 Source: Huawei*

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

#### 6.4.5 NRM enhancements

**S5-203064 Rel-16 CR 28.541 Add IOC for configurable 5QIs**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0286 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-203414**.

**S5-203414 Rel-16 CR 28.541 Add IOC for configurable 5QIs**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0286 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-203064)

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

**S5-203065 Rel-16 CR 28.541 Add IOC for 5QI to DSCP mapping**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0287 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-203415**.

**S5-203415 Rel-16 CR 28.541 Add IOC for 5QI to DSCP mapping**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0287 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-203065)

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

**S5-203083 Rel-16 CR TS 28.541 Add NRPhysicalCellDU NRM to support network sharing**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0292 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-203084 Rel-16 CR TS 28.623 Update the definition of SNssai**

*Type: CR For: Agreement  
 28.623 v16.3.2 CR-0082 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-203131 Rel-16 CR 28.541 Add CommModelList NRM**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0293 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S5-203132 Rel-16 CR 28.541 Update NRM attribute definitions**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0294 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-203416**.

**S5-203416 Rel-16 CR 28.541 Update NRM attribute definitions**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0294 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-203132)

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

**S5-203133 Rel-16 CR TS 28.541 Correct NRM definition in XML solution**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0295 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-203417**.

**S5-203417 Rel-16 CR TS 28.541 Correct NRM definition in XML solution**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0295 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-203133)

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

**S5-203134 Rel-16 CR TS 28.623 Correct genericNRM definition in XML solution**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0296 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S5-203136 Rel 16 deleting perfReq from SliceProfile**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0297 Cat: F (Rel-16)  
  
 Source: Samsung Electronics France SA*

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

**S5-203151 Rel-16 CR 28.622 Add analytics control NRM fragment stage 2**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0082 Cat: B (Rel-16)  
  
 Source: Nokia Corporation*

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

**S5-203153 Rel-16 CR 28.541 Correction on SliceProfile**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0298 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-203158 Rel-16 CR 28.541 Update on ServiceProfile and SliceProfile**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0299 Cat: C (Rel-16)  
  
 Source: Huawei*

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

**S5-203159 Rel-16 CR 28.541 Clarification on the relation of GST, ServiceProfile and SliceProfile**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0300 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203427**.

**S5-203427 Rel-16 CR 28.541 Clarification on the relation of GST, ServiceProfile and SliceProfile**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0300 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203159)

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

**S5-203185 Rel-16 CR TS 28.541 Update the decription for RRMPolicy\_ and resouceType**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0302 Cat: F (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.,Nokia, Ericsson*

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

**S5-203186 Rel-16 CR TS 28.541 Update definition for attribute localAddress in EP\_RP IOC**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0303 Cat: F (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.,Ericsson*

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

**S5-203187 Rel-16 CR TS 28.623 Update ManagedElement YANG module**

*Type: CR For: Agreement  
 28.623 v16.3.2 CR-0084 Cat: F (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.*

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

**S5-203199 Update Nrm YANG**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0085 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Add missing ManagedFunction-MeasurementControl containment in YANG already specified in Stage 2

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

**S5-203200 Rel-16 CR 28.623 Add analytics control NRM fragment stage 3**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0086 Cat: B (Rel-16)  
  
 Source: Nokia Corporation*

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

**S5-203218 Mapping SupportQualifier into YANG**

*Type: discussion For: Endorsement  
 Source: Ericsson Hungary Ltd*

**Abstract:**

There was discussion recently about how the supportQualifier (TS 32.156 clause 6) is mapped in YANG models. A clarified and agreed statement about this is proposed.

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

**S5-203236 Rel-16 CR 28.622 Combine class diagrams of subscription and heartbeat NRM control fragments (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0083 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203425**.

**S5-203425 Rel-16 CR 28.622 Combine class diagrams of subscription and heartbeat NRM control fragments (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0083 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203236)

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

**S5-203238 Discussion on updating SliceProfile attributes**

*Type: discussion For: Endorsement  
 28.541 v..  
 Source: China Mobile Com. Corporation, China Southern Power Grid*

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

**S5-203242 Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0046 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202182)

**Decision:** The document was **revised to S5-203423**.

**S5-203423 Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0046 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203242)

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

**S5-203247 Rel-16 CR 28.622 Update PM control fragment (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0084 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203421**.

**S5-203421 Rel-16 CR 28.622 Update PM control fragment (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0084 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203247)

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

**S5-203249 Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0087 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203386**.

**S5-203386 Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0087 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203249)

**Decision:** The document was **revised to S5-203422**.

**S5-203422 Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0087 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203386)

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

**S5-203250 Rel-16 CR 28.622 Clarify usage of the VsDataContainer (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0085 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203251 Rel-16 CR 28.623 Clarify usage of the VsDataContainer (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0088 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203255 add transport information and slice mapping on backhaul endpoints stage 3**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0307 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203259 add RIM RS attributes stage 2**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0310 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203260 add RIM RS attributes stage 3**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0311 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203262 LS to IETF for transport support for E2E network slice in 3gpp**

*Type: LS out For: Agreement  
 to IETF  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203266 Rel-16 CR 28.623 Add common data definitions (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0089 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203268 Rel-16 CR 28.532 Add MnS profile**

*Type: CR For: (not specified)  
 28.532 v16.3.0 CR-0131 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203272 Rel-16 CR 28.623 Combine class diagrams of subscription and heartbeat NRM control fragments (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0090 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203275 Rel-16 CR 28.622 Update FM control fragment (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0086 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203424**.

**S5-203424 Rel-16 CR 28.622 Update FM control fragment (stage 2)**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0086 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203275)

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

**S5-203277 Update YANG Guidelines**

*Type: CR For: Approval  
 32.160 v16.2.0 CR-0009 Cat: B (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-203279 YANG-Push Notifications**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0132 Cat: B (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-203280 Rel-16 CR 28.541 update SliceProfile attribute solution 1**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0312 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-203418**.

**S5-203418 Rel-16 CR 28.541 update SliceProfile attribute solution 1**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0312 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-203280)

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

**S5-203281 Clarify definition of configuredMaxTxPower in NRSectorCarrier**

*Type: CR For: Approval  
 28.541 v15.5.0 CR-0313 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

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

**S5-203282 R-16 CR 28.541 Update SliceProfile attributes solution 2**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0314 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-203283 Add configuredMaxTxEIRP on NRSectorCarrier**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0315 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-203426**.

**S5-203426 Add configuredMaxTxEIRP on NRSectorCarrier**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0315 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-203283)

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

**S5-203284 Stage 3 Add configuredMaxTxEIRP on NRSectorCarrier**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0316 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-203286 Update ServiceProfile to align with GST**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0317 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-203329 New NRM fragment to support RIM stage 3**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0284 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, China Mobile*

(Replaces S5-202283)

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

**S5-203364 Rel-16 Exception request for eNRM**

*Type: WI exception request For: Agreement  
 Source: Nokia*

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

**S5-203387 Update NRM YANG for 28.541**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0318 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-203389 Rel-16 CR 28.623 Update FM control fragment (YANG definitions)**

*Type: CR For: Agreement  
 28.623 v16.3.2 CR-0091 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-203390 new NRM fragment to support RIM stage 2**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0283 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell,China Mobile*

(Replaces S5-202370)

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

**S5-203460 Rel-16 CR TS 28.623 Correct genericNRM definition in XML solution**

*Type: CR For: Agreement  
 28.623 v16.3.2 CR-0093 Cat: F (Rel-16)  
  
 Source: CATT*

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

#### 6.4.6 Trace Management in the context of Services Based Management Architecture

#### 6.4.7 Closed loop SLS Assurance

**S5-203142 pCR TS 28.535 Add use case for 5GC service assurance**

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

**Decision:** The document was **revised to S5-203431**.

**S5-203431 pCR TS 28.535 Add use case for 5GC service assurance**

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

(Replaces S5-203142)

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

**S5-203165 Discussion paper on ServiceStatus representation in NRM model**

*Type: discussion For: Endorsement  
 Source: Huawei Tech.(UK) Co., Ltd*

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

**S5-203178 pCR TS 28.536 Add the procedure of closed-loop SLA assurance**

*Type: pCR For: (not specified)  
 28.536 v0.3.0  
 Source: HuaWei Technologies Co., Ltd*

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

**S5-203189 pCR 28.535 Add use case of SLS assurance control**

*Type: pCR For: Approval  
 28.535 v1.2.0  
 Source: HUAWEI Technologies Japan K.K.*

**Decision:** The document was **revised to S5-203435**.

**S5-203435 pCR 28.535 Add use case of SLS assurance control**

*Type: pCR For: Approval  
 28.535 v1.2.0  
 Source: HUAWEI Technologies Japan K.K.*

(Replaces S5-203189)

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

**S5-203204 pCR 28.536 Generic SLS Assurance Procedure**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Samsung Electronics France SA*

**Abstract:**

Generic SLS Assurance Procedure

**Decision:** The document was **revised to S5-203432**.

**S5-203432 pCR 28.536 Generic SLS Assurance Procedure**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Samsung Electronics France SA,Huawei,Ericsson*

(Replaces S5-203204)

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

**S5-203205 pCR 28.535 Update Clause 4.2 Management control loops**

*Type: pCR For: (not specified)  
 28.535 v1.2.0  
 Source: Huawei Technologies (Korea)*

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

**S5-203219 pCR 28.535 Update Clause 4.2 Management control loops**

*Type: pCR For: (not specified)  
 28.535 v1.2.0  
 Source: Huawei Technologies (Korea), Ericsson*

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

**S5-203246 pCR 28.535 Update Clause 4.2 Management control loops**

*Type: pCR For: Approval  
 28.535 v1.2.0  
 Source: China Mobile, Ericsson*

**Decision:** The document was **revised to S5-203429**.

**S5-203429 pCR 28.535 Update Clause 4.2 Management control loops**

*Type: pCR For: Approval  
 28.535 v1.2.0  
 Source: China Mobile, Ericsson*

(Replaces S5-203246)

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

**S5-203287 TS 28.535 Generalise requirements**

*Type: pCR For: Agreement  
 28.535 v1.2.0  
 Source: Ericsson LM, Deutsche Telekom*

**Decision:** The document was **revised to S5-203430**.

**S5-203430 TS 28.535 Generalise requirements**

*Type: pCR For: Agreement  
 28.535 v1.2.0  
 Source: Ericsson LM, Deutsche Telekom*

(Replaces S5-203287)

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

**S5-203288 TS 28.535 Remove CSI definition**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM*

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

**S5-203289 TS 28.535 Remove CSI definition**

*Type: pCR For: Agreement  
 28.535 v1.2.0  
 Source: Ericsson LM, Huawei*

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

**S5-203290 TS 28.536 Add attributes to assurance control loop**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM.Deutsche Telekom*

**Decision:** The document was **revised to S5-203433**.

**S5-203433 TS 28.536 Add attributes to assurance control loop**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM.Deutsche Telekom*

(Replaces S5-203290)

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

**S5-203291 TS 28.536 Add stage 3 solution**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-203434**.

**S5-203434 TS 28.536 Add stage 3 solution**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM*

(Replaces S5-203291)

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

**S5-203292 TS 28.536 Remove CSI from clause 4.1.1**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM, Huawei*

**Decision:** The document was **revised to S5-203428**.

**S5-203428 TS 28.536 Remove CSI from clause 4.1.1**

*Type: pCR For: Agreement  
 28.536 v0.3.0  
 Source: Ericsson LM, Huawei*

(Replaces S5-203292)

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

**S5-203365 Presentation sheet for TS 28.535 for approval**

*Type: TS or TR cover For: Approval  
 28.535 v..  
 Source: Ericsson*

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

**S5-203366 Presentation sheet for TS 28.536 for information & approval**

*Type: TS or TR cover For: Approval  
 28.536 v..  
 Source: Ericsson*

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

**S5-203454 draft TS 28.535**

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

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

**S5-203455 draft TS 28.536**

*Type: draft TS For: Approval  
 28.536 v0.4.0  
 Source: Ericsson*

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

#### 6.4.8 Streaming trace reporting

**S5-203038 Rel-16 CR 28.532 Add streaming data reporting service stage 2 definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0117 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Intel, Ericsson, Huawei*

(Replaces S5-202385)

**Decision:** The document was **revised to S5-203436**.

**S5-203436 Rel-16 CR 28.532 Add streaming data reporting service stage 2 definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0117 rev 3 Cat: B (Rel-16)  
  
 Source: Nokia, Intel, Ericsson, Huawei*

(Replaces S5-203038)

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

**S5-203207 Update Trace Record Schema**

*Type: CR For: Agreement  
 32.423 v16.0.0 CR-0114 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-203212 Rel-16 CR 28.532 Add streaming data reporting service stage 3 mapping of operations**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0118 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Intel, Ericsson, Huawei*

(Replaces S5-202386)

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

**S5-203213 Rel-16 CR 28.532 Add streaming data reporting service stage 3 resources**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0119 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Intel, Ericsson, Huawei*

(Replaces S5-202387)

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

**S5-203215 Rel-16 CR 28.532 Add streaming data reporting service stage 3 data types**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0120 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Intel, Ericsson, Huawei*

(Replaces S5-202388)

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

**S5-203217 Rel-16 CR 28.532 Add streaming data reporting service stage 3 OpenAPI definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0121 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Intel, Ericsson, Huawei*

(Replaces S5-202389)

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

**S5-203240 Rel-16 CR 32.423 Correction of the Trace streaming format definitions**

*Type: CR For: Approval  
 32.423 v16.0.0 CR-0115 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203437**.

**S5-203437 Rel-16 CR 32.423 Correction of the Trace streaming format definitions**

*Type: CR For: Approval  
 32.423 v16.0.0 CR-0115 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell,Ericsson*

(Replaces S5-203240)

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

#### 6.4.9 Self-Organizing Networks (SON) for 5G networks

**S5-203032 Reply LS to SA5 on the status update of the SON support for NR works**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-202630*

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

**S5-203069 Rel-16 CR TS 28.552 Add measurements related to RACH optimization**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0230 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-203070 pCR 28.313 revise MRO parameters**

*Type: pCR For: Approval  
 28.313 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-203071 Rel-16 CR TS 28.541 Add attributes of related to HO parameter**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0288 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-203072 pCR 28.313 handover related parameters**

*Type: pCR For: Approval  
 28.313 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-203073 pCR 28.313 cleanup**

*Type: pCR For: Approval  
 28.313 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203368**.

**S5-203368 pCR 28.313 cleanup**

*Type: pCR For: Approval  
 28.313 v0.4.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203073)

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

**S5-203074 CR TS 28.541 Stage3 add the NRM fragement for SON management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0289 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

**Decision:** The document was **revised to S5-203331**.

**S5-203316 CR TS 28.541 Add the NRM fragment for SON management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0291 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

(Replaces S5-202330)

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

**S5-203331 CR TS 28.541 Stage3 add the NRM fragment for SON management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0289 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

(Replaces S5-203074)

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

**S5-203075 CR TS 28.541 stage3 ANR management for EN-DC architecture**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0290 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203076 CR TS 28.623 Stage3 add the NRM fragement for SON management**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0081 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

**Decision:** The document was **revised to S5-203371**.

**S5-203371 CR TS 28.623 Stage3 add the NRM fragement for SON management**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0081 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

(Replaces S5-203076)

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

**S5-203077 pCR TS 28.313 Corrections of Management service description**

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

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

**S5-203078 CR TS 28.541 Stage2 MRO Function**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0291 Cat: B (Rel-16)  
  
 Source: Huawei,Ericsson,Intel*

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

**S5-203079 pCR TS 28.313 MRO Function**

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

**Decision:** The document was **revised to S5-203363**.

**S5-203363 pCR TS 28.313 MRO Function**

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

(Replaces S5-203079)

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

**S5-203093 LS for D-SON management**

*Type: LS out For: Approval  
 to RAN3  
 Source: Huawei*

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

**S5-203319 draft TS 28.313**

*Type: draft TS For: Approval  
 28.313 v0.5.0  
 Source: Intel*

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

**S5-203359 Rel-16 Exception request for SON\_5G**

*Type: WI exception request For: Agreement  
 Source: Intel*

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

**S5-203361 LS on the clarification of handover and reselection parameters**

*Type: LS out For: Approval  
 to RAN3  
 Source: Intel*

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

**S5-203458 Rel-16 CR 28.623 Update PM control fragment (YANG definitions)**

*Type: CR For: Agreement  
 28.623 v16.3.2 CR-0092 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

#### 6.4.10 Enhancement of 3GPP management system for multiple tenant environment support

**S5-203150 Rel16 CR 28.533 Add clarifications about how to distinguish diffrent tenant**

*Type: CR For: Agreement  
 28.533 v16.3.0 CR-0071 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203188 Rel-16 CR TS 28.550 Add use case for performance management supporting multiple tenant**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0057 Cat: B (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.*

**Decision:** The document was **revised to S5-203351**.

**S5-203351 Rel-16 CR TS 28.550 Add use case for performance management supporting multiple tenant**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0057 rev 1 Cat: B (Rel-16)  
  
 Source: HUAWEI Technologies Japan K.K.*

(Replaces S5-203188)

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

### 6.5 Rel-17 Operations, Administration, Maintenance and Provisioning (OAM&P)

#### 6.5.1 Network policy management for 5G mobile networks based on NFV scenarios

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

#### 6.5.3 Enhancements on EE for 5G networks

#### 6.5.4 Management of non-public networks

#### 6.5.5 Enhancement on Management Aspects of 5G Service-Level Agreement

#### 6.5.6 Management of MDT enhancement in 5G

#### 6.5.7 Additional NRM features

#### 6.5.8 Enhancement of QoE Measurement Collection

#### 6.5.9 Self-Organizing Networks (SON) for 5G networks

#### 6.5.10 Enhanced Closed loop SLS Assurance

### 6.6 OAM&P Studies

#### 6.6.1 Study on non-public networks management

**S5-203162 pCR 28.807 Rapporteur clean up proposal**

*Type: pCR For: Approval  
 28.807 v1.1.0  
 Source: Huawei*

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

**S5-203163 pCR 28.807 Update on recommendation for management of PNI-NPN**

*Type: pCR For: Approval  
 28.807 v1.1.0  
 Source: Huawei*

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

**S5-203164 TR 28.807 Presentation sheet to SA for Approval**

*Type: other For: Approval  
 28.807 v..  
 Source: Huawei*

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

**S5-203320 draft TR 28.807**

*Type: draft TR For: Approval  
 28.807 v1.2.0  
 Source: Huawei*

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

#### 6.6.2 Study on management and orchestration aspects with integrated satellite components in a 5G network

**S5-203018 pCR 28.808 Add use case for management of NGSO transparent satellite components**

*Type: pCR For: Approval  
 28.808 v0.4.0  
 Source: TNO*

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

**S5-203019 pCR 28.808 Add potential requirements for management of NGSO transparent satellite components**

*Type: pCR For: Approval  
 28.808 v0.4.0  
 Source: TNO*

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

**S5-203020 pCR 28.808 Editorial corrections**

*Type: pCR For: Approval  
 28.808 v0.4.0  
 Source: TNO*

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

**S5-203321 draft TR 28.808**

*Type: draft TR For: Approval  
 28.808 v0.5.0  
 Source: TNO*

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

#### 6.6.3 Study on autonomous network levels

**S5-203190 pCR 28.810 Clean-up**

*Type: pCR For: Approval  
 28.810 v0.4.0  
 Source: HUAWEI Technologies Japan K.K., China Mobile, CATT*

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

**S5-203191 pCR 28.810 Update Clause 6.1.2 Framework approach for classification of autonomous**

*Type: pCR For: Approval  
 28.810 v0.4.0  
 Source: HUAWEI Technologies Japan K.K.,China Mobile*

**Decision:** The document was **revised to S5-203438**.

**S5-203438 pCR 28.810 Update Clause 6.1.2 Framework approach for classification of autonomous**

*Type: pCR For: Approval  
 28.810 v0.4.0  
 Source: HUAWEI Technologies Japan K.K.,China Mobile*

(Replaces S5-203191)

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

**S5-203235 pCR 28.810 Add Clause 6.X Relation with existing standardized features**

*Type: pCR For: Approval  
 28.810 v0.4.0  
 Source: China Mobile, Huawei*

**Decision:** The document was **revised to S5-203439**.

**S5-203439 pCR 28.810 Add Clause 6.X Relation with existing standardized features**

*Type: pCR For: Approval  
 28.810 v0.4.0  
 Source: China Mobile, Huawei*

(Replaces S5-203235)

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

**S5-203239 pCR 28.810 Add conclusion and recommendation**

*Type: pCR For: Approval  
 28.810 v0.4.0  
 Source: China Mobile, Huawei*

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

**S5-203244 Presentation of Report to TSG TR 28.810 Version 1.0.0**

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

**Decision:** The document was **revised to S5-203440**.

**S5-203440 Presentation of Report to TSG TR 28.810 Version 1.0.0**

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

(Replaces S5-203244)

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

**S5-203456 draft TR 28.810**

*Type: draft TR For: Approval  
 28.810 v0.5.0  
 Source: China Mobile*

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

#### 6.6.4 Study on enhancement of Management Data Analytics Service

**S5-203061 pCR on MDA process**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203441**.

**S5-203441 pCR on MDA process**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203061)

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

**S5-203062 pCR Add UC on MDA process training**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203063**.

**S5-203063 pCR Add UC on MDA assisted SON coordination**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203062)

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

**S5-203066 pCR Add UC on MDA process training**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203442**.

**S5-203442 pCR Add UC on MDA process training**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203066)

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

**S5-203067 pCR Add UC on MDA assisted SON coordination**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203448**.

**S5-203448 pCR Add UC on MDA assisted SON coordination**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203067)

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

**S5-203068 Rel-17 pCR 28.809 New use case on Inter-gNB Beam Selection Optimization in subclause 6.5**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Nokia Corporation*

**Decision:** The document was **revised to S5-203449**.

**S5-203449 Rel-17 pCR 28.809 New use case on Inter-gNB Beam Selection Optimization in subclause 6.5**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Nokia Corporation*

(Replaces S5-203068)

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

**S5-203082 pCR 28.809 Use case and potential solutions of MDA assisted network health maintenance**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: ZTE Corporation*

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

**S5-203135 Enahncing the Handover optimization use case in subclause 6.5**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Nokia Corporation*

**Decision:** The document was **revised to S5-203453**.

**S5-203453 Enahncing the Handover optimization use case in subclause 6.5**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: Nokia Corporation*

(Replaces S5-203135)

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

**S5-203139 pCR 28.809 addition of network slice load analysis requirements and solution**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: ETRI*

**Abstract:**

This contribution proposes to add network slice load analysis requirements and solution to TR 28.809

**Decision:** The document was **revised to S5-203446**.

**S5-203446 pCR 28.809 addition of network slice load analysis requirements and solution**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: ETRI*

(Replaces S5-203139)

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

**S5-203147 pCR 28.809 Update fault management use case**

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

**Decision:** The document was **revised to S5-203443**.

**S5-203443 pCR 28.809 Update fault management use case**

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

(Replaces S5-203147)

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

**S5-203148 pCR 28.809 Update resource related use case**

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

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

**S5-203149 pCR 28.809 Add the use case for NAS level congestion control optimization**

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

**Decision:** The document was **revised to S5-203450**.

**S5-203450 pCR 28.809 Add the use case for NAS level congestion control optimization**

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

(Replaces S5-203149)

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

**S5-203201 pCR 28.809 Add use case and potential solutions of KPI anomaly analysis**

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

**Decision:** The document was **revised to S5-203451**.

**S5-203451 pCR 28.809 Add use case and potential solutions of KPI anomaly analysis**

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

(Replaces S5-203201)

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

**S5-203202 pCR 28.809 Add use case and potential solutions of cross-slice resource optimization analysis**

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

**Decision:** The document was **revised to S5-203447**.

**S5-203447 pCR 28.809 Add use case and potential solutions of cross-slice resource optimization analysis**

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

(Replaces S5-203202)

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

**S5-203203 pCR 28.809 Add use case abd potential solutions of network slice throughput analysis**

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

**Decision:** The document was **revised to S5-203444**.

**S5-203444 pCR 28.809 Add use case abd potential solutions of network slice throughput analysis**

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

(Replaces S5-203203)

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

**S5-203206 pCR 28.809 Solution for Handover Optimization**

*Type: pCR For: Agreement  
 28.809 v0.3.0  
 Source: Samsung Electronics France SA*

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

**S5-203208 pCR 28.809 UC for Paging Optimization**

*Type: pCR For: Agreement  
 28.809 v0.3.0  
 Source: Samsung Electronics France SA*

**Abstract:**

Use case for paging optimizaton

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

**S5-203209 pCR 28.809 UC for Performance related issues**

*Type: pCR For: Agreement  
 28.809 v0.3.0  
 Source: Samsung Electronics France SA*

**Abstract:**

Use case for RAN Node software upgrade

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

**S5-203237 pCR 28.809 Add use case of UE uplink/downlink throughput**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: China Mobile Com. Corporation, China Southern Power Grid*

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

**S5-203241 pCR 28.809 Add use case of jitter analysis**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: China Mobile Com. Corporation, China Southern Power Grid*

**Decision:** The document was **revised to S5-203452**.

**S5-203452 pCR 28.809 Add use case of jitter analysis**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: China Mobile Com. Corporation, China Southern Power Grid*

(Replaces S5-203241)

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

**S5-203248 pCR 28.809 Modification of the resource utilization analysis use case**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: China Mobile Com. Corporation, China Southern Power Grid*

**Decision:** The document was **revised to S5-203445**.

**S5-203445 pCR 28.809 Modification of the resource utilization analysis use case**

*Type: pCR For: Approval  
 28.809 v0.3.0  
 Source: China Mobile Com. Corporation, China Southern Power Grid*

(Replaces S5-203248)

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

**S5-203457 draft TR 28.809**

*Type: draft TR For: Approval  
 28.809 v0.4.0  
 Source: Intel*

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

#### 6.6.5 Study on network slice management enhancements

#### 6.6.6 Study on new aspects of EE for 5G networks

**S5-203011 pCR TR 28.813 Clause titles for Key Issues and Potential Solutions**

*Type: pCR For: Approval  
 28.813 v0.0.0  
 Source: Orange*

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

**S5-203012 pCR TR 28.813 Key Issue: EE KPI for 5GC**

*Type: pCR For: Approval  
 28.813 v0.0.0  
 Source: AT&T, Orange,Deutsche Telekom*

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

**S5-203013 pCR TR 28.813 Key Issue: Network data analysis assisted energy saving**

*Type: pCR For: Approval  
 28.813 v0.0.0  
 Source: AT&T, China Telecom, Deutsche Telekom, Orange*

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

**S5-203016 Reply LS on energy efficiency**

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

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

**S5-203196 pCR TR 28.813 Key Issue: EE KPI in case of NG-RAN sharing scenario**

*Type: pCR For: Approval  
 28.813 v0.0.0  
 Source: Orange*

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

**S5-203322 draft TR 28.813**

*Type: draft TR For: discussion  
 28.813 v0.1.0  
 Source: Orange*

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

**S5-203360 LS to SA2 on Network data analysis assisted energy saving**

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

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

#### 6.6.7 Study on management aspects of edge computing

## 7 Charging

### 7.1 Charging Plenary

**S5-203027 Resubmitted LS to SA5 on making PSCELL ID available at the SGW of EPC**

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

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

**S5-203094 CH agenda and time plan**

*Type: agenda For: (not specified)  
 Source: WG vice Chair (Nokia)*

**Decision:** The document was **revised to S5-203508**.

**S5-203095 Charging exec report**

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

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

**S5-203508 CH agenda and time plan**

*Type: agenda For: (not specified)  
 Source: WG vice Chair (Nokia)*

(Replaces S5-203094)

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

### 7.2 New Charging Work Item proposals

**S5-203053 New SID Study on charging aspects of Edge Computing**

*Type: SID new For: Approval  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-203471**.

**S5-203471 New SID Study on charging aspects of Edge Computing**

*Type: SID new For: Approval  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-203053)

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

**S5-203119 New SID on New Measurement Methods for Charging in 5G Systems**

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

**Decision:** The document was **revised to S5-203472**.

**S5-203472 New SID on New Measurement Methods for Charging in 5G Systems**

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

(Replaces S5-203119)

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

**S5-203120 New WID on 5G charging for CIOT**

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

**Decision:** The document was **revised to S5-203509**.

**S5-203509 New WID on 5G charging for CIOT**

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

(Replaces S5-203120)

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

**S5-203121 New WID on evolution of 5G data connectivity charging**

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

**Decision:** The document was **revised to S5-203510**.

**S5-203510 New WID on evolution of 5G data connectivity charging**

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

(Replaces S5-203121)

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

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-203008 Correction of two SCUR Scenarios figure title and message description**

*Type: CR For: Approval  
 32.290 v16.3.0 CR-0117 Cat: F (Rel-16)  
  
 Source: China Telecomunication Corp.*

**Decision:** The document was **revised to S5-203489**.

**S5-203009 Correction of NF Consumers AMF for Nchf\_ConvergedCharging\_Release**

*Type: CR For: Approval  
 32.290 v16.3.0 CR-0118 Cat: F (Rel-16)  
  
 Source: China Telecomunication Corp.*

**Decision:** The document was **revised to S5-203491**.

**S5-203015 DP Use of InvocationResult in CHF error responses**

*Type: discussion For: Discussion  
 32.291 v..  
 Source: Openet Telecom*

**Abstract:**

Discuss the use of InvocationResult in CHF error responses and explore if it redundant as currently specified.

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

**S5-203051 Rel-16 CR 32.291 Introduce TS 29.500 and TS 29.501 full applicability**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0231 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203097 Rel-16 CR 32.255 Correct the PDU Address**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0230 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203480**.

**S5-203098 Rel-16 CR 32.298 Correct the PDU Address**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0812 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-203099 Rel-16 CR 32.291 Correct the PDU Address**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0232 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203481**.

**S5-203100 Rel-16 CR 32.291 Correct the Charging Data Response for NEF charging**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0233 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203482**.

**S5-203122 Rel-16 CR 32.255 Add PDU address for IPv6 multi-homing**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0231 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-203123 Rel-16 CR 32.291 Add PDU address for IPv6 multi-homing**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0236 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-203124 Rel-16 CR 32.298 Add PDU address for IPv6 multi-homing**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0814 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-203126 Rel-16 CR 32.291 Correct offline only charging service API due to maintainance**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0237 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203494**.

**S5-203221 Rel-15 CR 32.291 Correcting the definition of requested units as nullable**

*Type: CR For: Agreement  
 32.291 v15.5.0 CR-0238 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-203222 Rel-16 CR 32.291 Correcting the definition of requested units as nullable**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0239 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-203223 Rel-16 CR 32.255 Correcting of PDU session information in charging data response**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0234 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203488**.

**S5-203224 Rel-16 CR 32.291 Correcting pduSessionInformation as optional**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0240 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203487**.

**S5-203225 Rel-16 CR 32.298 orrecting backwards compatibility on CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0816 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-203226 Rel-16 CR 32.298 Correcting backwards compatibility on CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0817 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203486**.

**S5-203227 Rel-16 CR 32.298 Correcting RATtype in CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0818 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203485**.

**S5-203228 Rel-16 CR 32.255 Correcting the use of home provided charging id**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0235 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-203480 Rel-16 CR 32.255 Correct the PDU Address**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0230 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203097)

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

**S5-203481 Rel-16 CR 32.291 Correct the PDU Address**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0232 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203099)

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

**S5-203482 Rel-16 CR 32.291 Correct the Charging Data Response for NEF charging**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0233 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203100)

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

**S5-203485 Rel-16 CR 32.298 Correcting RATtype in CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0818 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-203227)

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

**S5-203486 Rel-16 CR 32.298 Correcting backwards compatibility on CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0817 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-203226)

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

**S5-203487 Rel-16 CR 32.291 Correcting pduSessionInformation as optional**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0240 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-203224)

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

**S5-203488 Rel-16 CR 32.255 Correcting of PDU session information in charging data response**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0234 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-203223)

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

**S5-203489 Correction of two SCUR Scenarios figure title and message description**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0117 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecomunication Corp.*

(Replaces S5-203008)

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

**S5-203491 Correction of NF Consumers AMF for Nchf\_ConvergedCharging\_Release**

*Type: CR For: Approval  
 32.290 v16.3.0 CR-0118 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecomunication Corp.*

(Replaces S5-203009)

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

**S5-203494 Rel-16 CR 32.291 Correct offline only charging service API due to maintainance**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0237 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203126)

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

**S5-203512 Rel-15 CR 32.291 OpenAPI version update**

*Type: CR For: Agreement  
 32.291 v15.5.0 CR-0243 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-203513 Rel-16 CR 32.291 OpenAPI version update**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0244 Cat: A (Rel-16)  
  
 Source: Huawei*

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

### 7.4 Rel-16 Charging

#### 7.4.1 Network Slice Performance and Analytics Charging in 5G System

**S5-203014 DP Harmonization of terminology between TS 28.201 and TS 28.202**

*Type: discussion For: Discussion  
 28.201 v..  
 Source: Openet Telecom*

**Abstract:**

Proposal to request a discussion on the terminology used within TS 28.201 and TS 28.202 and to explore paths to harmonizing the terms used.

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

**S5-203040 Rel-16 pCR TS 28.201 Change terminology for CSIF**

*Type: pCR For: Approval  
 28.201 v0.4.0  
 Source: Openet Telecom*

**Abstract:**

The CSIF as defined in TS 28.201 [1] and the eCTF as defined in TS 28.202 [2] are essentially providing the same functionality. This PCR introduces a common term for this functionality across both specifications.

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

**S5-203105 LSout on NWDAF for Network Slice Performance and Analytics Charging**

*Type: LS out For: Agreement  
 to SA2  
 Source: Huawei*

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

**S5-203106 Rel-16 CR 32.297 Add the Bnspa interface**

*Type: CR For: Agreement  
 32.297 v16.0.0 CR-0037 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203493**.

**S5-203107 Rel-16 Discussion Paper on the charging information for NSPA**

*Type: discussion For: Agreement  
 Source: Huawei*

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

**S5-203108 Rel-16 pCR 28.201 Remove the editor's notes in clause 4 and clause 5**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203476**.

**S5-203109 Rel-16 pCR 28.201 Update the clause 3 for new charging function**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203478**.

**S5-203110 Rel-16 pCR 28.201 Add the NS performance and analytics charging information**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203511**.

**S5-203511 Rel-16 pCR 28.201 Add the NS performance and analytics charging information**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

(Replaces S5-203110)

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

**S5-203111 Rel-16 pCR 28.201 Update the message flow**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203479**.

**S5-203112 Rel-16 CR 32.298 Add the NS performance and analytics charging parameter**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0813 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203113 Rel-16 CR 32.291 Add the NS performance and analytics charging attribute**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0235 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203125 Rel-16 pCR 28.201 Add charging requirements**

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

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

**S5-203231 Rel-16 pCR 28.201 Change name of CSIF to eCTF**

*Type: pCR For: Approval  
 28.201 v0.4.0  
 Source: Ericsson*

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

**S5-203232 Rel-16 pCR 28.201 Adding charging information**

*Type: pCR For: Approval  
 28.201 v0.4.0  
 Source: Ericsson*

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

**S5-203476 Rel-16 pCR 28.201 Remove the editor's notes in clause 4 and clause 5**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

(Replaces S5-203108)

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

**S5-203478 Rel-16 pCR 28.201 Update the clause 3 for new charging function**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

(Replaces S5-203109)

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

**S5-203479 Rel-16 pCR 28.201 Update the message flow**

*Type: pCR For: Agreement  
 28.201 v0.4.0  
 Source: Huawei*

(Replaces S5-203111)

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

**S5-203493 Rel-16 CR 32.297 Add the Bns interface**

*Type: CR For: Agreement  
 32.297 v16.0.0 CR-0037 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203106)

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

**S5-203464 Rel-16 WI Exception for Network Slice performance and Analytics Charging in 5GS**

*Type: WI exception request For: Agreement  
 Source: Huawei*

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

**S5-203465 Presentation to TSG of TS 28.201 for Information**

*Type: TS or TR cover For: Agreement  
 28.201 v..  
 Source: Huawei*

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

**S5-203466 draft TS 28.201**

*Type: draft TS For: Approval  
 28.201 v0.5.0  
 Source: Huawei*

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

#### 7.4.2 Network Slice Management Charging in 5G System

**S5-203041 Rel-16 pCR TS 28.202 Change terminology for eCTF**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Openet Telecom*

**Abstract:**

The CSIF as defined in TS 28.201 [1] and the eCTF as defined in TS 28.202 [2] are essentially providing the same functionality. This PCR introduces a common term for this functionality across both specifications.

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

**S5-203047 Rel-16 pCR TS 28.202 Align CSF and CIF terminology with TS 28.201**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Openet Telecom*

**Abstract:**

The functional blocks CSF and CIF are explicitly defined in clause 4.2.2 of TS 28.201 [1]. They are not present in TS 28.202 [2]. This pCR proposes explicitly specifying them in TS 28.202 [2].

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

**S5-203114 Rel-16 pCR 28.202 clarification of eCTF and CSIF naming**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203473**.

**S5-203115 Rel-16 pCR 28.202 trigger addition for CSIF based architecture**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei*

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

**S5-203116 Rel-16 pCR 28.202 message content addition for CSIF based architecture**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei*

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

**S5-203117 Rel-16 pCR 28.202 CSIF description addition in subclause 5.2.1.1**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203474**.

**S5-203118 Rel-16 pCR 28.202 CSIF message flow addition in subclause 5.2.2**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei*

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

**S5-203130 Rel-16 pCR 28.202 clarification of MnS consumer identity**

*Type: pCR For: (not specified)  
 28.202 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-203475**.

**S5-203192 Rel-16 pCR TS 28.202 Create Informative Annex for Deployment Scenarios**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Openet Telecom*

**Abstract:**

Provide additional information on potential deployment scenarios for network slice management charging in the 5G System in the form of an informative annex.

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

**S5-203233 Rel-16 pCR 28.202 Adding charging information**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Ericsson*

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

**S5-203234 Rel-16 pCR 28.202 Adding provisioning operations**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203495**.

**S5-203495 Rel-16 pCR 28.202 Adding provisioning operations**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Ericsson*

(Replaces S5-203234)

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

**S5-203293 Rel-16 pCR 28.202 Align terminology in principle and requirements with the scope**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203496**.

**S5-203496 Rel-16 pCR 28.202 Align terminology in principle and requirements with the scope**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203293)

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

**S5-203294 Rel-16 pCR 28.202 Introduce requirements based on new architecture.**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203497**.

**S5-203497 Rel-16 pCR 28.202 Introduce requirements based on new architecture.**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203294)

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

**S5-203295 Rel-16 pCR 28.202 Update scenario principles based on new architecture**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203296 Rel-16 pCR 28.202 Update flows based on internal CTF**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203498**.

**S5-203498 Rel-16 pCR 28.202 Update flows based on internal CTF**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203296)

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

**S5-203297 Rel-16 pCR 28.202 Introduce flows based on eCTF**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203499**.

**S5-203298 Rel-16 pCR 28.202 Extend triggers description for eCTF**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203500**.

**S5-203299 Rel-16 pCR 28.202 Introduce CHF selection**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203501**.

**S5-203300 Rel-16 pCR 28.202 Introduce CDR description**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203502**.

**S5-203301 Rel-16 pCR 28.202 Introduce detailed msg format**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203305 Rel-16 pCR 28.202 Solve Editor's note on NSI**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203503**.

**S5-203503 Rel-16 pCR 28.202 Solve Editor's note on NSI**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203305)

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

**S5-203473 Rel-16 pCR 28.202 clarification of eCTF and CSIF naming**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei*

(Replaces S5-203114)

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

**S5-203474 Rel-16 pCR 28.202 CSIF description addition in subclause 5.2.1.1**

*Type: pCR For: Agreement  
 28.202 v0.1.0  
 Source: Huawei, Nokia*

(Replaces S5-203117)

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

**S5-203475 Rel-16 pCR 28.202 clarification of MnS consumer identity**

*Type: pCR For: (not specified)  
 28.202 v0.1.0  
 Source: Huawei*

(Replaces S5-203130)

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

**S5-203483 Rel-16 pCR 28.202 Adding provisioning operations**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Ericsson*

(Replaces S5-203234)

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

**S5-203499 Rel-16 pCR 28.202 Introduce flows based on CSIF**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203297)

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

**S5-203500 Rel-16 pCR 28.202 Update triggers description**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203298)

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

**S5-203501 Rel-16 pCR 28.202 Introduce CHF selection**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203299)

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

**S5-203502 Rel-16 pCR 28.202 Introduce CDR description**

*Type: pCR For: Approval  
 28.202 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203300)

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

**S5-203467 Rel-16 WI Exception for Network Slice Management Charging in 5GS**

*Type: WI exception request For: Agreement  
 Source: Nokia*

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

**S5-203468 Presentation to TSG of TS 28.202 for Information**

*Type: TS or TR cover For: Approval  
 28.202 v..  
 Source: Nokia*

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

**S5-203469 draft TS 28.202**

*Type: draft TS For: Approval  
 28.202 v0.2.0  
 Source: Nokia*

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

#### 7.4.3 Charging Access Traffic Steering, Switching and Splitting in 5G system architecture

**S5-203010 Rel-16 CR 32.255 Introduction of architecture reference for ATSSS Hybrid access**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0224 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203042 Rel-16 CR 32.255 Introduction of flows for ATSSS Hybrid access NG-RAN and W-5GAN**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0225 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203043 Rel-16 CR 32.255 Introduction of flows for ATSSS Hybrid access EPC and W-5GAN**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0226 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203044 Rel-16 CR 32.255 Introduction of non-3GPP access information for MA PDU session**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0227 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203504**.

**S5-203045 Rel-16 CR 32.255 Introduction of ATSSS triggers and CDR handling**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0228 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-203046 Rel-16 CR 32.255 Introduction of MA PDU information in detailed messages**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0229 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-203505**.

**S5-203048 Rel-16 CR 32.255 Introduction of ATSSS triggers**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0207 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202449)

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

**S5-203049 Rel-16 CR 32.255 Introduction of MA PDU session information**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0218 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202450)

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

**S5-203504 Rel-16 CR 32.255 Introduction of non-3GPP access information for MA PDU session**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0227 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203044)

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

**S5-203505 Rel-16 CR 32.255 Introduction of MA PDU information in detailed messages**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0229 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-203046)

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

**S5-203470 Rel-16 WI Exception for ATSSS**

*Type: WI exception request For: Agreement  
 Source: Nokia*

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

#### 7.4.4 Charging Aspect for 5WWC

**S5-203127 Rel-16 CR 32.298 Add 5WWC charging information**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0815 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203506**.

**S5-203128 Rel-16 CR 32.255 Add Trusted non-3GPP access related charging requirements**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0232 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-203507**.

**S5-203506 Rel-16 CR 32.298 Add 5WWC charging information**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0815 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203127)

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

**S5-203507 Rel-16 CR 32.255 Add Trusted non-3GPP access related charging requirements**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0232 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-203128)

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

#### 7.4.5 CHF-controlled quota management

**S5-203037 Rel-16 CR 32.290 Add CHF-Controlled Quota Management functionality**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0119 Cat: B (Rel-16)  
  
 Source: Matrixx*

**Decision:** The document was **revised to S5-203477**.

**S5-203039 Rel-16 CR 32.291 Additional setting on CHF-controlled Quota Management**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0230 Cat: B (Rel-16)  
  
 Source: Matrixx*

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

**S5-203101 Rel-16 CR 32.290 Add suspend and resume quota management mechanism**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0120 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203102 Rel-16 CR 32.290 Add suspend and resume quota management flow**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0121 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203103 Rel-16 CR 32.290 Add the parameters for CHFQM**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0122 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203104 Rel-16 CR 32.291 Add the parameters for CHFQM**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0234 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-203137 Rel-16 CR 32.255 Settings on Quota Management Indication for CHFCQM**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0233 Cat: B (Rel-16)  
  
 Source: Matrixx*

**Decision:** The document was **revised to S5-203484**.

**S5-203229 Rel-16 CR 32.290 Flows for switch to offline**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0123 Cat: C (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-203492**.

**S5-203230 Rel-16 CR 32.290 Adding CHFCQM as supported feature**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0124 Cat: C (Rel-16)  
  
 Source: Ericsson*

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

**S5-203306 Add CHF-Controlled Quota Management functionality**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0125 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-203307 Add CHF-Controlled Quota Management data type**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0241 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-203477 Rel-16 CR 32.290 Add CHF-Controlled Quota Management functionality**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0119 rev 1 Cat: B (Rel-16)  
  
 Source: Matrixx, Amdocs*

(Replaces S5-203037)

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

**S5-203484 Rel-16 CR 32.255 Settings of Supported Features for CHFCQM**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0233 rev 1 Cat: B (Rel-16)  
  
 Source: Matrixx*

(Replaces S5-203137)

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

**S5-203490 Rel-16 CR 32.291 Adding CHFCQM as supported feature**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0242 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-203492 Rel-16 CR 32.290 Flows for switch to offline**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0123 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-203229)

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

**S5-203463 alternative solutions for CHF-controlled QM**

*Type: discussion For: discussion  
 Source: Amdocs*

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

### 7.5 Rel-17 Charging

#### 7.5.1 IMS Charging in 5G System Architecture

## 8 Any Other Business

**S5-203330 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203373 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203374 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203375 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203376 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203377 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203378 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203379 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203380 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203381 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203382 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203383 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203384 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203385 (reserved)**

*Type: other For: Agreement  
 Source: OAM*

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

**S5-203461 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

**S5-203462 (reserved)**

*Type: other For: discussion  
 Source: OAM*

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-203000 | Agenda | WG Chair | approved |  |  |
| S5-203001 | Report from last SA5 meeting | MCC | approved |  |  |
| S5-203002 | SA5#131e e-meeting process | WG Chair | noted |  |  |
| S5-203003 | Post SA5#130e Email approval status | WG Chair | available |  |  |
| S5-203004 | OAM&P SWG action list | WG Chair | noted |  |  |
| S5-203005 | SA5#131e\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM | WG Vice Chair | noted |  |  |
| S5-203006 | SA5#131e OAM Exec Report | WG Vice Chair | available |  |  |
| S5-203007 | SA5#131e OAM Chair notes and conclusions | WG Chair | available |  |  |
| S5-203008 | Correction of two SCUR Scenarios figure title and message description | China Telecomunication Corp. | revised |  | S5-203489 |
| S5-203009 | Correction of NF Consumers AMF for Nchf\_ConvergedCharging\_Release | China Telecomunication Corp. | revised |  | S5-203491 |
| S5-203010 | Rel-16 CR 32.255 Introduction of architecture reference for ATSSS Hybrid access | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203011 | pCR TR 28.813 Clause titles for Key Issues and Potential Solutions | Orange | approved |  |  |
| S5-203012 | pCR TR 28.813 Key Issue: EE KPI for 5GC | AT&T, Orange,Deutsche Telekom | approved |  |  |
| S5-203013 | pCR TR 28.813 Key Issue: Network data analysis assisted energy saving | AT&T, China Telecom, Deutsche Telekom, Orange | approved |  |  |
| S5-203014 | DP Harmonization of terminology between TS 28.201 and TS 28.202 | Openet Telecom | noted |  |  |
| S5-203015 | DP Use of InvocationResult in CHF error responses | Openet Telecom | noted |  |  |
| S5-203016 | Reply LS on energy efficiency | Orange | approved |  |  |
| S5-203017 | Modification of “Distribution of Normally Released Call (5QI 1 QoS Flow) Duration” and “Distribution of Abnormally Released Call (5QI 1 QoS Flow) Duration” measurements. | Nokia Solutions & Networks (I) | not pursued |  |  |
| S5-203018 | pCR 28.808 Add use case for management of NGSO transparent satellite components | TNO | approved |  |  |
| S5-203019 | pCR 28.808 Add potential requirements for management of NGSO transparent satellite components | TNO | approved |  |  |
| S5-203020 | pCR 28.808 Editorial corrections | TNO | approved |  |  |
| S5-203021 | Rel-17 time plan proposal for OAM | SA5 Vice chair (Huawei) | noted | S5-201349 |  |
| S5-203022 | Rel-16 CR TS 32.422 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | revised |  | S5-203391 |
| S5-203023 | Rel-16 CR TS 32.423 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | revised |  | S5-203392 |
| S5-203024 | LS reply to SA5 on GST attributes and on NG.116 publication and future co-operation. | GSMA | replied to |  |  |
| S5-203025 | LS to SA5 on NGMN Continuous Delivery in Telecommunication Network Environments | NGMN | noted |  |  |
| S5-203026 | Ls reply to SA5 on Energy Efficiency for 5G | ETSI TC EE | noted |  |  |
| S5-203027 | Resubmitted LS to SA5 on making PSCELL ID available at the SGW of EPC | ETSI TC LI | postponed |  |  |
| S5-203028 | Ls reply to S5-197831 | ONAP | replied to |  |  |
| S5-203029 | LS reply to S5-202300 | ONAP | replied to |  |  |
| S5-203030 | Reply LS to SA5 on energy efficiency | R3-197745 | replied to |  |  |
| S5-203031 | Resubmitted Ls to SA5 on removal of Management Based MDT Allowed IE for NR | R3-201437 | replied to |  |  |
| S5-203032 | Reply LS to SA5 on the status update of the SON support for NR works | R3-202630 | noted |  |  |
| S5-203033 | Reply LS ccSA5 on support for eCall over NR | S2-2003308 | noted |  |  |
| S5-203034 | Reply LS ccSA5 on QoS Monitoring for URLLC | S2-2003468 | postponed |  |  |
| S5-203035 | Resubmitted Reply LS to SA5 on support for eCall over NR | SP-200287 | replied to |  |  |
| S5-203036 | LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | O-RAN | postponed |  |  |
| S5-203037 | Rel-16 CR 32.290 Add CHF-Controlled Quota Management functionality | Matrixx | revised |  | S5-203477 |
| S5-203038 | Rel-16 CR 28.532 Add streaming data reporting service stage 2 definition | Nokia, Intel, Ericsson, Huawei | revised | S5-202385 | S5-203436 |
| S5-203039 | Rel-16 CR 32.291 Additional setting on CHF-controlled Quota Management | Matrixx | not pursued |  |  |
| S5-203040 | Rel-16 pCR TS 28.201 Change terminology for CSIF | Openet Telecom | noted |  |  |
| S5-203041 | Rel-16 pCR TS 28.202 Change terminology for eCTF | Openet Telecom | noted |  |  |
| S5-203042 | Rel-16 CR 32.255 Introduction of flows for ATSSS Hybrid access NG-RAN and W-5GAN | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203043 | Rel-16 CR 32.255 Introduction of flows for ATSSS Hybrid access EPC and W-5GAN | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203044 | Rel-16 CR 32.255 Introduction of non-3GPP access information for MA PDU session | Nokia, Nokia Shanghai Bell | revised |  | S5-203504 |
| S5-203045 | Rel-16 CR 32.255 Introduction of ATSSS triggers and CDR handling | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203046 | Rel-16 CR 32.255 Introduction of MA PDU information in detailed messages | Nokia, Nokia Shanghai Bell | revised |  | S5-203505 |
| S5-203047 | Rel-16 pCR TS 28.202 Align CSF and CIF terminology with TS 28.201 | Openet Telecom | noted |  |  |
| S5-203048 | Rel-16 CR 32.255 Introduction of ATSSS triggers | Nokia, Nokia Shanghai Bell | not pursued | S5-202449 |  |
| S5-203049 | Rel-16 CR 32.255 Introduction of MA PDU session information | Nokia, Nokia Shanghai Bell | agreed | S5-202450 |  |
| S5-203050 | Reply LS to SA to Reply LS on support for eCall over NR | Nokia, Nokia Shanghai Bell | revised |  | S5-203369 |
| S5-203051 | Rel-16 CR 32.291 Introduce TS 29.500 and TS 29.501 full applicability | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203052 | New WID Enhancements of 5G performance measurements and KPIs | Intel, China Telecom, CMCC, Samsung | revised |  | S5-203324 |
| S5-203053 | New SID Study on charging aspects of Edge Computing | Intel Corporation (UK) Ltd | revised |  | S5-203471 |
| S5-203054 | Add KPIs on integrated uplink delay in NG-RAN | Intel Corporation (UK) Ltd | merged |  | S5-203340 |
| S5-203055 | Add KPIs on integrated downlink delay in NG-RAN | Intel Corporation (UK) Ltd,Ericsson | merged |  | S5-203341 |
| S5-203056 | Add KPIs on e2e UL delay for network slice | Intel Corporation (UK) Ltd | revised |  | S5-203338 |
| S5-203057 | Add KPIs on e2e DL delay for network slice | Intel Corporation (UK) Ltd | revised |  | S5-203339 |
| S5-203058 | Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE | Intel Finland Oy | revised | S5-202105 | S5-203342 |
| S5-203059 | Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE | Intel Finland Oy | revised | S5-202106 | S5-203343 |
| S5-203060 | Rel-16 CR 28.552 Add measurements on N9 interface for UPF | Intel Finland Oy | revised |  | S5-203348 |
| S5-203061 | pCR on MDA process | Intel Corporation (UK) Ltd | revised |  | S5-203441 |
| S5-203062 | pCR Add UC on MDA process training | Intel Corporation (UK) Ltd | revised |  | S5-203063 |
| S5-203063 | pCR Add UC on MDA assisted SON coordination | Intel Corporation (UK) Ltd | withdrawn | S5-203062 |  |
| S5-203064 | Rel-16 CR 28.541 Add IOC for configurable 5QIs | Intel Finland Oy | revised |  | S5-203414 |
| S5-203065 | Rel-16 CR 28.541 Add IOC for 5QI to DSCP mapping | Intel Finland Oy | revised |  | S5-203415 |
| S5-203066 | pCR Add UC on MDA process training | Intel Corporation (UK) Ltd | revised |  | S5-203442 |
| S5-203067 | pCR Add UC on MDA assisted SON coordination | Intel Corporation (UK) Ltd | revised |  | S5-203448 |
| S5-203068 | Rel-17 pCR 28.809 New use case on Inter-gNB Beam Selection Optimization in subclause 6.5 | Nokia Corporation | revised |  | S5-203449 |
| S5-203069 | Rel-16 CR TS 28.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | not pursued |  |  |
| S5-203070 | pCR 28.313 revise MRO parameters | Intel Corporation (UK) Ltd | withdrawn |  |  |
| S5-203071 | Rel-16 CR TS 28.541 Add attributes of related to HO parameter | Intel Corporation (UK) Ltd | not pursued |  |  |
| S5-203072 | pCR 28.313 handover related parameters | Intel Corporation (UK) Ltd | not pursued |  |  |
| S5-203073 | pCR 28.313 cleanup | Intel Corporation (UK) Ltd | revised |  | S5-203368 |
| S5-203074 | CR TS 28.541 Stage3 add the NRM fragement for SON management | Huawei, Orange, Intel | revised |  | S5-203331 |
| S5-203075 | CR TS 28.541 stage3 ANR management for EN-DC architecture | Huawei | agreed |  |  |
| S5-203076 | CR TS 28.623 Stage3 add the NRM fragement for SON management | Huawei, Orange, Intel | revised |  | S5-203371 |
| S5-203077 | pCR TS 28.313 Corrections of Management service description | Huawei | not pursued |  |  |
| S5-203078 | CR TS 28.541 Stage2 MRO Function | Huawei,Ericsson,Intel | not pursued |  |  |
| S5-203079 | pCR TS 28.313 MRO Function | Huawei | revised |  | S5-203363 |
| S5-203080 | Rel-16 CR TS 28.552 Addition of authentication measurements for AMF | China Mobile Com. Corporation,ZTE | revised |  | S5-203344 |
| S5-203081 | Rel-16 CR TS 28.552 Addition of system resource average load measurement for SMF | China Mobile Com. Corporation,ZTE | not pursued |  |  |
| S5-203082 | pCR 28.809 Use case and potential solutions of MDA assisted network health maintenance | ZTE Corporation | noted |  |  |
| S5-203083 | Rel-16 CR TS 28.541 Add NRPhysicalCellDU NRM to support network sharing | ZTE Corporation | not pursued |  |  |
| S5-203084 | Rel-16 CR TS 28.623 Update the definition of SNssai | ZTE Corporation | agreed |  |  |
| S5-203085 | R16 CR TS28.552 ADD UL Cell PDCP SDU Data Volume on Xn Interface | ZTE Corporation, China Mobile | not pursued |  |  |
| S5-203086 | R16 CR TS28.552 Add UE power headroom Measurement | ZTE Corporation, China Mobile | revised |  | S5-203334 |
| S5-203087 | Rel-16 CR TS 28.552 Addition of QoS flow measurements for UPF | China Mobile Com. Corporation,ZTE | revised |  | S5-203345 |
| S5-203088 | R16 CR TS28.552 Modify DL Cell PDCP SDU Data Volume on Xn Interface | ZTE Corporation, China Mobile | agreed |  |  |
| S5-203089 | R16 CR TS28.552 Add Paging Measurement | ZTE Corporation, China Mobile | revised |  | S5-203349 |
| S5-203090 | Rel-16 CR TS 28.552 Addition of AM policy association update measurements for PCF | China Mobile Com. Corporation,ZTE | revised |  | S5-203346 |
| S5-203091 | R16 CR TS28.552 Add Number of UE and MAC data volume related SSB beam index Measurements | ZTE Corporation, China Mobile | revised |  | S5-203350 |
| S5-203092 | R16 CR TS28.552 Add Power utilization measurements | ZTE Corporation, China Mobile | revised |  | S5-203335 |
| S5-203093 | LS for D-SON management | Huawei | noted |  |  |
| S5-203094 | CH agenda and time plan | WG vice Chair (Nokia) | revised |  | S5-203508 |
| S5-203095 | Charging exec report | WG Vice Chair (Nokia) | available |  |  |
| S5-203096 | New WID on Network slicing capability model | Huawei Technologies France | revised |  | S5-203323 |
| S5-203097 | Rel-16 CR 32.255 Correct the PDU Address | Huawei | revised |  | S5-203480 |
| S5-203098 | Rel-16 CR 32.298 Correct the PDU Address | Huawei | not pursued |  |  |
| S5-203099 | Rel-16 CR 32.291 Correct the PDU Address | Huawei | revised |  | S5-203481 |
| S5-203100 | Rel-16 CR 32.291 Correct the Charging Data Response for NEF charging | Huawei | revised |  | S5-203482 |
| S5-203101 | Rel-16 CR 32.290 Add suspend and resume quota management mechanism | Huawei | not pursued |  |  |
| S5-203102 | Rel-16 CR 32.290 Add suspend and resume quota management flow | Huawei | not pursued |  |  |
| S5-203103 | Rel-16 CR 32.290 Add the parameters for CHFQM | Huawei | not pursued |  |  |
| S5-203104 | Rel-16 CR 32.291 Add the parameters for CHFQM | Huawei | not pursued |  |  |
| S5-203105 | LSout on NWDAF for Network Slice Performance and Analytics Charging | Huawei | noted |  |  |
| S5-203106 | Rel-16 CR 32.297 Add the Bnspa interface | Huawei | revised |  | S5-203493 |
| S5-203107 | Rel-16 Discussion Paper on the charging information for NSPA | Huawei | noted |  |  |
| S5-203108 | Rel-16 pCR 28.201 Remove the editor's notes in clause 4 and clause 5 | Huawei | revised |  | S5-203476 |
| S5-203109 | Rel-16 pCR 28.201 Update the clause 3 for new charging function | Huawei | revised |  | S5-203478 |
| S5-203110 | Rel-16 pCR 28.201 Add the NS performance and analytics charging information | Huawei | revised |  | S5-203511 |
| S5-203111 | Rel-16 pCR 28.201 Update the message flow | Huawei | revised |  | S5-203479 |
| S5-203112 | Rel-16 CR 32.298 Add the NS performance and analytics charging parameter | Huawei | not pursued |  |  |
| S5-203113 | Rel-16 CR 32.291 Add the NS performance and analytics charging attribute | Huawei | not pursued |  |  |
| S5-203114 | Rel-16 pCR 28.202 clarification of eCTF and CSIF naming | Huawei | revised |  | S5-203473 |
| S5-203115 | Rel-16 pCR 28.202 trigger addition for CSIF based architecture | Huawei | noted |  |  |
| S5-203116 | Rel-16 pCR 28.202 message content addition for CSIF based architecture | Huawei | noted |  |  |
| S5-203117 | Rel-16 pCR 28.202 CSIF description addition in subclause 5.2.1.1 | Huawei | revised |  | S5-203474 |
| S5-203118 | Rel-16 pCR 28.202 CSIF message flow addition in subclause 5.2.2 | Huawei | merged |  | S5-203499 |
| S5-203119 | New SID on New Measurement Methods for Charging in 5G Systems | Huawei | revised |  | S5-203472 |
| S5-203120 | New WID on 5G charging for CIOT | Huawei | revised |  | S5-203509 |
| S5-203121 | New WID on evolution of 5G data connectivity charging | Huawei | revised |  | S5-203510 |
| S5-203122 | Rel-16 CR 32.255 Add PDU address for IPv6 multi-homing | Huawei | not pursued |  |  |
| S5-203123 | Rel-16 CR 32.291 Add PDU address for IPv6 multi-homing | Huawei | not pursued |  |  |
| S5-203124 | Rel-16 CR 32.298 Add PDU address for IPv6 multi-homing | Huawei | not pursued |  |  |
| S5-203125 | Rel-16 pCR 28.201 Add charging requirements | Huawei | noted |  |  |
| S5-203126 | Rel-16 CR 32.291 Correct offline only charging service API due to maintainance | Huawei | revised |  | S5-203494 |
| S5-203127 | Rel-16 CR 32.298 Add 5WWC charging information | Huawei | revised |  | S5-203506 |
| S5-203128 | Rel-16 CR 32.255 Add Trusted non-3GPP access related charging requirements | Huawei | revised |  | S5-203507 |
| S5-203129 | Rel 15 CR MnS Query | Samsung Electronics France SA | withdrawn |  |  |
| S5-203130 | Rel-16 pCR 28.202 clarification of MnS consumer identity | Huawei | revised |  | S5-203475 |
| S5-203131 | Rel-16 CR 28.541 Add CommModelList NRM | CATT | agreed |  |  |
| S5-203132 | Rel-16 CR 28.541 Update NRM attribute definitions | CATT | revised |  | S5-203416 |
| S5-203133 | Rel-16 CR TS 28.541 Correct NRM definition in XML solution | CATT | revised |  | S5-203417 |
| S5-203134 | Rel-16 CR TS 28.623 Correct genericNRM definition in XML solution | CATT | not pursued |  |  |
| S5-203135 | Enahncing the Handover optimization use case in subclause 6.5 | Nokia Corporation | revised |  | S5-203453 |
| S5-203136 | Rel 16 deleting perfReq from SliceProfile | Samsung Electronics France SA | not pursued |  |  |
| S5-203137 | Rel-16 CR 32.255 Settings on Quota Management Indication for CHFCQM | Matrixx | revised |  | S5-203484 |
| S5-203138 | Discussion on network slice capability model | Huawei Technologies France | withdrawn |  |  |
| S5-203139 | pCR 28.809 addition of network slice load analysis requirements and solution | ETRI | revised |  | S5-203446 |
| S5-203140 | Discussion on network slice capability model | Huawei Technologies France | noted |  |  |
| S5-203141 | new WID for management enhancement for eTenant for release 17 | Huawei | revised |  | S5-203325 |
| S5-203142 | pCR TS 28.535 Add use case for 5GC service assurance | Huawei | revised |  | S5-203431 |
| S5-203143 | Rel-16 CR TS 28.533 Clarify the MnS producer profile | Huawei | not pursued |  |  |
| S5-203144 | Rel-16 CR TS 28.622 Clarify systemDN usage for MnS producer profile | Huawei | not pursued |  |  |
| S5-203145 | Rel-16 CR TS 28.623 Clarify systemDN usage for MnS producer profile | Huawei | not pursued |  |  |
| S5-203146 | Revised WID on Discovery of management services in 5G | Huawei | noted |  |  |
| S5-203147 | pCR 28.809 Update fault management use case | Huawei | revised |  | S5-203443 |
| S5-203148 | pCR 28.809 Update resource related use case | Huawei | approved |  |  |
| S5-203149 | pCR 28.809 Add the use case for NAS level congestion control optimization | Huawei | revised |  | S5-203450 |
| S5-203150 | Rel16 CR 28.533 Add clarifications about how to distinguish diffrent tenant | Huawei | not pursued |  |  |
| S5-203151 | Rel-16 CR 28.622 Add analytics control NRM fragment stage 2 | Nokia Corporation | not pursued |  |  |
| S5-203152 | Add MDT additional configuration information for MDT reporting in NR | Oy LM Ericsson AB | agreed |  |  |
| S5-203153 | Rel-16 CR 28.541 Correction on SliceProfile | Huawei | merged |  | S5-203418 |
| S5-203154 | Rel-15 CR 28.531 Correction on AllocateNsi procedure | Huawei | not pursued |  |  |
| S5-203155 | Rel-16 CR 28.531 Correction on AllocateNsi procedure | Huawei | not pursued |  |  |
| S5-203156 | Rel-15 CR 28.531 Correction on DeallocateNsi procedure | Huawei | not pursued |  |  |
| S5-203157 | Rel-16 CR 28.531 Correction on DeallocateNsi procedure | Huawei | not pursued |  |  |
| S5-203158 | Rel-16 CR 28.541 Update on ServiceProfile and SliceProfile | Huawei | not pursued |  |  |
| S5-203159 | Rel-16 CR 28.541 Clarification on the relation of GST, ServiceProfile and SliceProfile | Huawei | revised |  | S5-203427 |
| S5-203160 | Rel-16 CR 28.310 Update on D-SON ES solution management service | Huawei | revised |  | S5-203332 |
| S5-203161 | Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation | Huawei, Orange | revised |  | S5-203333 |
| S5-203162 | pCR 28.807 Rapporteur clean up proposal | Huawei | approved |  |  |
| S5-203163 | pCR 28.807 Update on recommendation for management of PNI-NPN | Huawei | approved |  |  |
| S5-203164 | TR 28.807 Presentation sheet to SA for Approval | Huawei | approved |  |  |
| S5-203165 | Discussion paper on ServiceStatus representation in NRM model | Huawei Tech.(UK) Co., Ltd | noted |  |  |
| S5-203166 | LS to CT4 on MDT specific configuration parameters in NR | Oy LM Ericsson AB | approved |  |  |
| S5-203167 | Rel-6 CR TS 32.422 clean up of the editor notes | Huawei | withdrawn |  |  |
| S5-203168 | Rel-7 CR TS 32.422 clean up of the editor notes | Huawei | withdrawn |  |  |
| S5-203169 | Rel-8 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203393 |
| S5-203170 | Rel-9 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203394 |
| S5-203171 | Rel-10 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203395 |
| S5-203172 | Rel-11 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203396 |
| S5-203173 | Rel-12 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203397 |
| S5-203174 | Rel-13 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203398 |
| S5-203175 | Rel-14 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203399 |
| S5-203176 | Rel-15 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203400 |
| S5-203177 | Rel-16 CR TS 32.422 clean up of the editor notes | Huawei | revised |  | S5-203401 |
| S5-203178 | pCR TS 28.536 Add the procedure of closed-loop SLA assurance | HuaWei Technologies Co., Ltd | merged |  | S5-203432 |
| S5-203179 | Rel-15 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | revised |  | S5-203402 |
| S5-203180 | Rel-16 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | revised |  | S5-203403 |
| S5-203181 | Rel-16 CR TS 28.545 Add description for MnS components used for configurable FM contro | HUAWEI Technologies Japan K.K. | revised |  | S5-203404 |
| S5-203182 | Rel-15 CR TS 28.532 Move XML file format definition from stage2 to stage3 | HUAWEI Technologies Japan K.K. | agreed |  |  |
| S5-203183 | Rel-16 CR TS 28.532 Move XML file format definition from stage2 to stage3 | HUAWEI Technologies Japan K.K. | agreed |  |  |
| S5-203184 | Rel-15 CR TS 28.545 Update Clause 8 Virtualized resource alarm correlation | HUAWEI Technologies Japan K.K. | revised |  | S5-203412 |
| S5-203185 | Rel-16 CR TS 28.541 Update the decription for RRMPolicy\_ and resouceType | HUAWEI Technologies Japan K.K.,Nokia, Ericsson | agreed |  |  |
| S5-203186 | Rel-16 CR TS 28.541 Update definition for attribute localAddress in EP\_RP IOC | HUAWEI Technologies Japan K.K.,Ericsson | agreed |  |  |
| S5-203187 | Rel-16 CR TS 28.623 Update ManagedElement YANG module | HUAWEI Technologies Japan K.K. | agreed |  |  |
| S5-203188 | Rel-16 CR TS 28.550 Add use case for performance management supporting multiple tenant | HUAWEI Technologies Japan K.K. | revised |  | S5-203351 |
| S5-203189 | pCR 28.535 Add use case of SLS assurance control | HUAWEI Technologies Japan K.K. | revised |  | S5-203435 |
| S5-203190 | pCR 28.810 Clean-up | HUAWEI Technologies Japan K.K., China Mobile, CATT | approved |  |  |
| S5-203191 | pCR 28.810 Update Clause 6.1.2 Framework approach for classification of autonomous | HUAWEI Technologies Japan K.K.,China Mobile | revised |  | S5-203438 |
| S5-203192 | Rel-16 pCR TS 28.202 Create Informative Annex for Deployment Scenarios | Openet Telecom | noted |  |  |
| S5-203193 | Reply LS to LS on removal of Management Based MDT Allowed IE for NR | Oy LM Ericsson AB | revised |  | S5-203410 |
| S5-203194 | Correction of references | Oy LM Ericsson AB | revised |  | S5-203405 |
| S5-203195 | Correction of references | Oy LM Ericsson AB | revised |  | S5-203406 |
| S5-203196 | pCR TR 28.813 Key Issue: EE KPI in case of NG-RAN sharing scenario | Orange | approved |  |  |
| S5-203197 | Correct and align notifyNewSecurityAlarm | Oy LM Ericsson AB | not pursued |  |  |
| S5-203198 | Correct and align notifyNewSecurityAlarm | Oy LM Ericsson AB | not pursued |  |  |
| S5-203199 | Update Nrm YANG | Ericsson Hungary Ltd | agreed |  |  |
| S5-203200 | Rel-16 CR 28.623 Add analytics control NRM fragment stage 3 | Nokia Corporation | not pursued |  |  |
| S5-203201 | pCR 28.809 Add use case and potential solutions of KPI anomaly analysis | Huawei | revised |  | S5-203451 |
| S5-203202 | pCR 28.809 Add use case and potential solutions of cross-slice resource optimization analysis | Huawei | revised |  | S5-203447 |
| S5-203203 | pCR 28.809 Add use case abd potential solutions of network slice throughput analysis | Huawei | revised |  | S5-203444 |
| S5-203204 | pCR 28.536 Generic SLS Assurance Procedure | Samsung Electronics France SA | revised |  | S5-203432 |
| S5-203205 | pCR 28.535 Update Clause 4.2 Management control loops | Huawei Technologies (Korea) | withdrawn |  |  |
| S5-203206 | pCR 28.809 Solution for Handover Optimization | Samsung Electronics France SA | approved |  |  |
| S5-203207 | Update Trace Record Schema | Oy LM Ericsson AB | merged |  | S5-203437 |
| S5-203208 | pCR 28.809 UC for Paging Optimization | Samsung Electronics France SA | approved |  |  |
| S5-203209 | pCR 28.809 UC for Performance related issues | Samsung Electronics France SA | approved |  |  |
| S5-203210 | Rel-16 OAM Stage2 and Stage3 Mapping Status | Huawei Technologies (Korea) | noted |  |  |
| S5-203211 | Overview of the 5G specification structure | HiSilicon Technologies Co. Ltd | noted | S5-197548 |  |
| S5-203212 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 mapping of operations | Nokia, Intel, Ericsson, Huawei | agreed | S5-202386 |  |
| S5-203213 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 resources | Nokia, Intel, Ericsson, Huawei | agreed | S5-202387 |  |
| S5-203214 | Add 5G specification information | Huawei Technologies (Korea) | revised |  | S5-203413 |
| S5-203215 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 data types | Nokia, Intel, Ericsson, Huawei | agreed | S5-202388 |  |
| S5-203216 | Rel-16 CR TS 28.552 update the descriptions of PRB related measurements | HuaWei Technologies Co., Ltd | revised |  | S5-203347 |
| S5-203217 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 OpenAPI definition | Nokia, Intel, Ericsson, Huawei | agreed | S5-202389 |  |
| S5-203218 | Mapping SupportQualifier into YANG | Ericsson Hungary Ltd | endorsed |  |  |
| S5-203219 | pCR 28.535 Update Clause 4.2 Management control loops | Huawei Technologies (Korea), Ericsson | approved |  |  |
| S5-203220 | New WID on autonomous network levels | China Mobile, Huawei, China Telecom, CATT | revised |  | S5-203326 |
| S5-203221 | Rel-15 CR 32.291 Correcting the definition of requested units as nullable | Ericsson | not pursued |  |  |
| S5-203222 | Rel-16 CR 32.291 Correcting the definition of requested units as nullable | Ericsson | not pursued |  |  |
| S5-203223 | Rel-16 CR 32.255 Correcting of PDU session information in charging data response | Ericsson | revised |  | S5-203488 |
| S5-203224 | Rel-16 CR 32.291 Correcting pduSessionInformation as optional | Ericsson | revised |  | S5-203487 |
| S5-203225 | Rel-16 CR 32.298 orrecting backwards compatibility on CHF CDR | Ericsson | withdrawn |  |  |
| S5-203226 | Rel-16 CR 32.298 Correcting backwards compatibility on CHF CDR | Ericsson | revised |  | S5-203486 |
| S5-203227 | Rel-16 CR 32.298 Correcting RATtype in CHF CDR | Ericsson | revised |  | S5-203485 |
| S5-203228 | Rel-16 CR 32.255 Correcting the use of home provided charging id | Ericsson | not pursued |  |  |
| S5-203229 | Rel-16 CR 32.290 Flows for switch to offline | Ericsson | revised |  | S5-203492 |
| S5-203230 | Rel-16 CR 32.290 Adding CHFCQM as supported feature | Ericsson | not pursued |  |  |
| S5-203231 | Rel-16 pCR 28.201 Change name of CSIF to eCTF | Ericsson | noted |  |  |
| S5-203232 | Rel-16 pCR 28.201 Adding charging information | Ericsson | noted |  |  |
| S5-203233 | Rel-16 pCR 28.202 Adding charging information | Ericsson | merged |  | S5-203503 |
| S5-203234 | Rel-16 pCR 28.202 Adding provisioning operations | Ericsson | revised |  | S5-203495 |
| S5-203235 | pCR 28.810 Add Clause 6.X Relation with existing standardized features | China Mobile, Huawei | revised |  | S5-203439 |
| S5-203236 | Rel-16 CR 28.622 Combine class diagrams of subscription and heartbeat NRM control fragments (stage 2) | Nokia, Nokia Shanghai Bell | revised |  | S5-203425 |
| S5-203237 | pCR 28.809 Add use case of UE uplink/downlink throughput | China Mobile Com. Corporation, China Southern Power Grid | approved |  |  |
| S5-203238 | Discussion on updating SliceProfile attributes | China Mobile Com. Corporation, China Southern Power Grid | noted |  |  |
| S5-203239 | pCR 28.810 Add conclusion and recommendation | China Mobile, Huawei | noted |  |  |
| S5-203240 | Rel-16 CR 32.423 Correction of the Trace streaming format definitions | Nokia, Nokia Shanghai Bell | revised |  | S5-203437 |
| S5-203241 | pCR 28.809 Add use case of jitter analysis | China Mobile Com. Corporation, China Southern Power Grid | revised |  | S5-203452 |
| S5-203242 | Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment | Nokia, Nokia Shanghai Bell | revised | S5-202182 | S5-203423 |
| S5-203243 | LS to 5GJA on SA5 Rel-17 work in SLA | China Mobile Com. Corporation | revised |  | S5-203370 |
| S5-203244 | Presentation of Report to TSG TR 28.810 Version 1.0.0 | China Mobile Com. Corporation | revised |  | S5-203440 |
| S5-203245 | New WID on Enhancement of Handover Optimization | Ericsson France S.A.S | revised |  | S5-203362 |
| S5-203246 | pCR 28.535 Update Clause 4.2 Management control loops | China Mobile, Ericsson | revised |  | S5-203429 |
| S5-203247 | Rel-16 CR 28.622 Update PM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | revised |  | S5-203421 |
| S5-203248 | pCR 28.809 Modification of the resource utilization analysis use case | China Mobile Com. Corporation, China Southern Power Grid | revised |  | S5-203445 |
| S5-203249 | Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | revised |  | S5-203386 |
| S5-203250 | Rel-16 CR 28.622 Clarify usage of the VsDataContainer (stage 2) | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203251 | Rel-16 CR 28.623 Clarify usage of the VsDataContainer (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203252 | Rel-16 CR 28.532 Update Fault Supervision MnS (stage 2) | Nokia, Nokia Shanghai Bell | revised |  | S5-203407 |
| S5-203253 | TD proposal to add transport endpoint in NRM | Nokia, Nokia Shanghai Bell | revised |  | S5-203419 |
| S5-203254 | add transport information and slice mapping on backhaul endpoints | Nokia, Nokia Shanghai Bell | revised |  | S5-203420 |
| S5-203255 | add transport information and slice mapping on backhaul endpoints stage 3 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203256 | update slice NRM based on refined slice definitions | Nokia, Nokia Shanghai Bell, Intel | not pursued |  |  |
| S5-203257 | update slice NRM based on refined slice definitions stage 3 | Nokia, Nokia Shanghai Bell, Intel | withdrawn |  |  |
| S5-203258 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | revised |  | S5-203411 |
| S5-203259 | add RIM RS attributes stage 2 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-203260 | add RIM RS attributes stage 3 | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-203261 | Reply to:LS on mapping with slices of different domains via Cross-domain OAM coordination | KDDI | revised |  | S5-203459 |
| S5-203262 | LS to IETF for transport support for E2E network slice in 3gpp | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-203263 | Rel-16 CR 28.532 Update Fault Supervision MnS (REST SS) | Nokia, Nokia Shanghai Bell | revised |  | S5-203408 |
| S5-203264 | Rel-16 CR 28.532 Update Fault Supervision MnS (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | revised |  | S5-203409 |
| S5-203265 | Rel-16 CR 28.532 Remove voided notes from the ProvMnS | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-203266 | Rel-16 CR 28.623 Add common data definitions (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-203267 | Rel-16 CR 28.532 Applicability of Solution Sets | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-203268 | Rel-16 CR 28.532 Add MnS profile | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-203269 | New WID on Management data collection control and discovery | Nokia, Nokia Shanghai Bell | revised |  | S5-203327 |
| S5-203270 | Revision of SA5 ToR | Ericsson, Nokia, Huawei | revised |  | S5-203367 |
| S5-203271 | pCR R16 28308-030 Addition of QMC operations and notifications | Ericsson | revised |  | S5-203328 |
| S5-203272 | Rel-16 CR 28.623 Combine class diagrams of subscription and heartbeat NRM control fragments (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | merged |  | S5-203423 |
| S5-203273 | pCR R16 28405-130 Alignment of QMC terminology | Ericsson | approved |  |  |
| S5-203274 | Discussion paper around KPI aggregation | Ericsson LM | noted |  |  |
| S5-203275 | Rel-16 CR 28.622 Update FM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | revised |  | S5-203424 |
| S5-203276 | Add KPIs for UL packet delay in NG-RAN | Ericsson LM | revised |  | S5-203340 |
| S5-203277 | Update YANG Guidelines | Ericsson Hungary Ltd | agreed |  |  |
| S5-203278 | Correction of Integrated downlink delay in RAN KPI | Ericsson LM | revised |  | S5-203341 |
| S5-203279 | YANG-Push Notifications | Ericsson Hungary Ltd | not pursued |  |  |
| S5-203280 | Rel-16 CR 28.541 update SliceProfile attribute solution 1 | China Mobile Com. Corporation | revised |  | S5-203418 |
| S5-203281 | Clarify definition of configuredMaxTxPower in NRSectorCarrier | Ericsson LM | agreed |  |  |
| S5-203282 | R-16 CR 28.541 Update SliceProfile attributes solution 2 | China Mobile Com. Corporation | not pursued |  |  |
| S5-203283 | Add configuredMaxTxEIRP on NRSectorCarrier | Ericsson LM | revised |  | S5-203426 |
| S5-203284 | Stage 3 Add configuredMaxTxEIRP on NRSectorCarrier | Ericsson LM | agreed |  |  |
| S5-203285 | Rel-16 CR 28.550 Convert performance measurement job control service API to YAML | Intel Corporation (UK) Ltd | agreed |  |  |
| S5-203286 | Update ServiceProfile to align with GST | Ericsson LM | not pursued |  |  |
| S5-203287 | TS 28.535 Generalise requirements | Ericsson LM, Deutsche Telekom | revised |  | S5-203430 |
| S5-203288 | TS 28.535 Remove CSI definition | Ericsson LM | withdrawn |  |  |
| S5-203289 | TS 28.535 Remove CSI definition | Ericsson LM, Huawei | approved |  |  |
| S5-203290 | TS 28.536 Add attributes to assurance control loop | Ericsson LM.Deutsche Telekom | revised |  | S5-203433 |
| S5-203291 | TS 28.536 Add stage 3 solution | Ericsson LM | revised |  | S5-203434 |
| S5-203292 | TS 28.536 Remove CSI from clause 4.1.1 | Ericsson LM, Huawei | revised |  | S5-203428 |
| S5-203293 | Rel-16 pCR 28.202 Align terminology in principle and requirements with the scope | Nokia, Nokia Shanghai Bell | revised |  | S5-203496 |
| S5-203294 | Rel-16 pCR 28.202 Introduce requirements based on new architecture. | Nokia, Nokia Shanghai Bell | revised |  | S5-203497 |
| S5-203295 | Rel-16 pCR 28.202 Update scenario principles based on new architecture | Nokia, Nokia Shanghai Bell | merged |  | S5-203474 |
| S5-203296 | Rel-16 pCR 28.202 Update flows based on internal CTF | Nokia, Nokia Shanghai Bell | revised |  | S5-203498 |
| S5-203297 | Rel-16 pCR 28.202 Introduce flows based on eCTF | Nokia, Nokia Shanghai Bell | revised |  | S5-203499 |
| S5-203298 | Rel-16 pCR 28.202 Extend triggers description for eCTF | Nokia, Nokia Shanghai Bell | revised |  | S5-203500 |
| S5-203299 | Rel-16 pCR 28.202 Introduce CHF selection | Nokia, Nokia Shanghai Bell | revised |  | S5-203501 |
| S5-203300 | Rel-16 pCR 28.202 Introduce CDR description | Nokia, Nokia Shanghai Bell | revised |  | S5-203502 |
| S5-203301 | Rel-16 pCR 28.202 Introduce detailed msg format | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-203302 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | revised |  | S5-203336 |
| S5-203303 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | revised |  | S5-203337 |
| S5-203304 | Rel-16 CR 28.531 Correction of provisioning services and procedures | Nokia, Nokia Shanghai Bell, Orange | not pursued |  |  |
| S5-203305 | Rel-16 pCR 28.202 Solve Editor's note on NSI | Nokia, Nokia Shanghai Bell | revised |  | S5-203503 |
| S5-203306 | Add CHF-Controlled Quota Management functionality | Amdocs Software Systems Ltd | merged |  | S5-203477 |
| S5-203307 | Add CHF-Controlled Quota Management data type | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-203308 | LS from GSMA NEST ccSA5 for mapping with slices of different domains via Cross-domain OAM coordination | GSMA NEST | noted |  |  |
| S5-203309 | LS from GSMA NEST to SA5 for mapping with slices of different domains via Cross-domain OAM coordination | GSMA NEST | replied to |  |  |
| S5-203310 | Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei,Nokia | agreed | S5-202363 |  |
| S5-203311 | Rel-16 CR TS 28.532 Update URI for performance data file reporting service | Huawei | agreed | S5-202362 |  |
| S5-203312 | Rel-16 CR TS 28.532 Update URI for generic fault supervision management service | Huawei | agreed | S5-202361 |  |
| S5-203313 | Reply LS to ONAP LS on S5-202300 | Ericsson | approved | - | - |
| S5-203314 | Reply LS to ONAP LS on S5-197831 | Ericsson | approved | - | - |
| S5-203315 | Correction of ONAP references | Oy LM Ericsson AB | agreed | - | - |
| S5-203316 | CR TS 28.541 Add the NRM fragment for SON management | Huawei, Orange, Intel | agreed | S5-202330 | - |
| S5-203317 | draft TS 28.308 | Ericsson | approved | - | - |
| S5-203318 | draft TS 28.405 | Ericsson | approved | - | - |
| S5-203319 | draft TS 28.313 | Intel | approved | - | - |
| S5-203320 | draft TR 28.807 | Huawei | approved | - | - |
| S5-203321 | draft TR 28.808 | TNO | approved | - | - |
| S5-203322 | draft TR 28.813 | Orange | approved | - | - |
| S5-203323 | New WID on Network slicing capability model | Huawei Technologies France | noted | S5-203096 | - |
| S5-203324 | New WID Enhancements of 5G performance measurements and KPIs | Intel, China Telecom, CMCC, Samsung | agreed | S5-203052 | - |
| S5-203325 | new WID for management enhancement for eTenant for release 17 | Huawei | agreed | S5-203141 | - |
| S5-203326 | New WID on autonomous network levels | China Mobile, Huawei, China Telecom, CATT | agreed | S5-203220 | - |
| S5-203327 | New WID on Management data collection control and discovery | Nokia, Nokia Shanghai Bell | agreed | S5-203269 | - |
| S5-203328 | pCR R16 28308-030 Addition of QMC operations and notifications | Ericsson | approved | S5-203271 | - |
| S5-203329 | New NRM fragment to support RIM stage 3 | Nokia, Nokia Shanghai Bell, China Mobile | agreed | S5-202283 | - |
| S5-203330 | (reserved) | OAM | withdrawn | - | - |
| S5-203331 | CR TS 28.541 Stage3 add the NRM fragment for SON management | Huawei, Orange, Intel | agreed | S5-203074 | - |
| S5-203332 | Rel-16 CR 28.310 Update on D-SON ES solution management service | Huawei | agreed | S5-203160 | - |
| S5-203333 | Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation | Huawei, Orange | agreed | S5-203161 | - |
| S5-203334 | R16 CR TS28.552 Add UE power headroom Measurement | ZTE Corporation, China Mobile | agreed | S5-203086 | - |
| S5-203335 | R16 CR TS28.552 Add Power utilization measurements | ZTE Corporation, China Mobile | agreed | S5-203092 | - |
| S5-203336 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | agreed | S5-203302 | - |
| S5-203337 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | agreed | S5-203303 | - |
| S5-203338 | Add KPIs on e2e UL delay for network slice | Intel Corporation (UK) Ltd | agreed | S5-203056 | - |
| S5-203339 | Add KPIs on e2e DL delay for network slice | Intel Corporation (UK) Ltd | agreed | S5-203057 | - |
| S5-203340 | Add KPIs for UL packet delay in NG-RAN | Ericsson LM, Intel | agreed | S5-203276 | - |
| S5-203341 | Correction of Integrated downlink delay in RAN KPI | Ericsson LM, Intel | agreed | S5-203278 | - |
| S5-203342 | Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE | Intel Finland Oy | agreed | S5-203058 | - |
| S5-203343 | Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE | Intel Finland Oy | agreed | S5-203059 | - |
| S5-203344 | Rel-16 CR TS 28.552 Addition of authentication measurements for AMF | China Mobile Com. Corporation,ZTE | agreed | S5-203080 | - |
| S5-203345 | Rel-16 CR TS 28.552 Addition of QoS flow measurements for UPF | China Mobile Com. Corporation,ZTE | agreed | S5-203087 | - |
| S5-203346 | Rel-16 CR TS 28.552 Addition of AM policy association update measurements for PCF | China Mobile Com. Corporation,ZTE | agreed | S5-203090 | - |
| S5-203347 | Rel-16 CR TS 28.552 update the descriptions of PRB related measurements | HuaWei Technologies Co., Ltd | agreed | S5-203216 | - |
| S5-203348 | Rel-16 CR 28.552 Add measurements on N9 interface for UPF | Intel Finland Oy | agreed | S5-203060 | - |
| S5-203349 | R16 CR TS28.552 Add Paging Measurement | ZTE Corporation, China Mobile | agreed | S5-203089 | - |
| S5-203350 | R16 CR TS28.552 Add Number of UE and MAC data volume related SSB beam index Measurements | ZTE Corporation, China Mobile | agreed | S5-203091 | - |
| S5-203351 | Rel-16 CR TS 28.550 Add use case for performance management supporting multiple tenant | HUAWEI Technologies Japan K.K. | agreed | S5-203188 | - |
| S5-203352 | Presentation sheet for 28.307 for information and approval | Ericsson | approved | - | - |
| S5-203353 | Presentation sheet for 28.308 for information and approval | Ericsson | approved | - | - |
| S5-203354 | Presentation sheet for 28.405 For approval | Ericsson | approved | - | - |
| S5-203355 | Presentation sheet for 28.406 For information and approval | Ericsson | approved | - | - |
| S5-203356 | TS skeleton for 28.309 | Ericsson | approved | - | - |
| S5-203357 | Rel-16 Exception request for QOED | Ericsson | agreed | - | - |
| S5-203358 | Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation Stage 3 | Huawei,Orange | agreed | - | - |
| S5-203359 | Rel-16 Exception request for SON\_5G | Intel | agreed | - | - |
| S5-203360 | LS to SA2 on Network data analysis assisted energy saving | Orange | approved | - | - |
| S5-203361 | LS on the clarification of handover and reselection parameters | Intel | approved | - | - |
| S5-203362 | New WID on Enhancement of Handover Optimization | Ericsson France S.A.S | agreed | S5-203245 | - |
| S5-203363 | pCR TS 28.313 MRO Function | Huawei | approved | S5-203079 | - |
| S5-203364 | Rel-16 Exception request for eNRM | Nokia | agreed | - | - |
| S5-203365 | Presentation sheet for TS 28.535 for approval | Ericsson | approved | - | - |
| S5-203366 | Presentation sheet for TS 28.536 for information & approval | Ericsson | approved | - | - |
| S5-203367 | Revision of SA5 ToR | Ericsson, Nokia, Huawei | agreed | S5-203270 | - |
| S5-203368 | pCR 28.313 cleanup | Intel Corporation (UK) Ltd | approved | S5-203073 | - |
| S5-203369 | Reply LS to SA to Reply LS on support for eCall over NR | Nokia, Nokia Shanghai Bell | approved | S5-203050 | - |
| S5-203370 | LS on SA5 Rel-17 work on SLA | China Mobile | approved | - | - |
| S5-203371 | CR TS 28.623 Stage3 add the NRM fragement for SON management | Huawei, Orange, Intel | agreed | S5-203076 | - |
| S5-203372 | Rel-16 Exception request for 5GDMS | Huawei | agreed | - | - |
| S5-203373 | (reserved) | OAM | withdrawn | - | - |
| S5-203374 | (reserved) | OAM | withdrawn | - | - |
| S5-203375 | (reserved) | OAM | withdrawn | - | - |
| S5-203376 | (reserved) | OAM | withdrawn | - | - |
| S5-203377 | (reserved) | OAM | withdrawn | - | - |
| S5-203378 | (reserved) | OAM | withdrawn | - | - |
| S5-203379 | (reserved) | OAM | withdrawn | - | - |
| S5-203380 | (reserved) | OAM | withdrawn | - | - |
| S5-203381 | (reserved) | OAM | withdrawn | - | - |
| S5-203382 | (reserved) | OAM | withdrawn | - | - |
| S5-203383 | (reserved) | OAM | withdrawn | - | - |
| S5-203384 | (reserved) | OAM | withdrawn | - | - |
| S5-203385 | (reserved) | OAM | withdrawn | - | - |
| S5-203386 | Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | revised | S5-203249 | S5-203422 |
| S5-203387 | Update NRM YANG for 28.541 | Ericsson | agreed | - | - |
| S5-203388 | Rel-16 CR 28.530 Clarification on network slice related identifiers | Nokia, Nokia Shanghai Bell, Intel, Huawei | agreed | S5-202366 | - |
| S5-203389 | Rel-16 CR 28.623 Update FM control fragment (YANG definitions) | Ericsson | agreed | - | - |
| S5-203390 | new NRM fragment to support RIM stage 2 | Nokia, Nokia Shanghai Bell,China Mobile | agreed | S5-202370 | - |
| S5-203391 | Rel-16 CR TS 32.422 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | agreed | S5-203022 | - |
| S5-203392 | Rel-16 CR TS 32.423 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | agreed | S5-203023 | - |
| S5-203393 | Rel-8 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203169 | - |
| S5-203394 | Rel-9 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203170 | - |
| S5-203395 | Rel-10 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203171 | - |
| S5-203396 | Rel-11 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203172 | - |
| S5-203397 | Rel-12 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203173 | - |
| S5-203398 | Rel-13 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203174 | - |
| S5-203399 | Rel-14 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203175 | - |
| S5-203400 | Rel-15 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203176 | - |
| S5-203401 | Rel-16 CR TS 32.422 clean up of the editor notes | Huawei | agreed | S5-203177 | - |
| S5-203402 | Rel-15 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | agreed | S5-203179 | - |
| S5-203403 | Rel-16 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | agreed | S5-203180 | - |
| S5-203404 | Rel-16 CR TS 28.545 Add description for MnS components used for configurable FM contro | HUAWEI Technologies Japan K.K. | agreed | S5-203181 | - |
| S5-203405 | Correction of references | Oy LM Ericsson AB | agreed | S5-203194 | - |
| S5-203406 | Correction of references | Oy LM Ericsson AB | agreed | S5-203195 | - |
| S5-203407 | Rel-16 CR 28.532 Update Fault Supervision MnS (stage 2) | Nokia, Nokia Shanghai Bell | agreed | S5-203252 | - |
| S5-203408 | Rel-16 CR 28.532 Update Fault Supervision MnS (REST SS) | Nokia, Nokia Shanghai Bell | agreed | S5-203263 | - |
| S5-203409 | Rel-16 CR 28.532 Update Fault Supervision MnS (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | agreed | S5-203264 | - |
| S5-203410 | Reply LS to LS on removal of Management Based MDT Allowed IE for NR | Ericsson | approved | - | - |
| S5-203411 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | agreed | S5-203258 | - |
| S5-203412 | Rel-15 CR TS 28.545 Update Clause 8 Virtualized resource alarm correlation | HUAWEI Technologies Japan K.K. | agreed | S5-203184 | - |
| S5-203413 | Add 5G specification information | Huawei Technologies (Korea) | agreed | S5-203214 | - |
| S5-203414 | Rel-16 CR 28.541 Add IOC for configurable 5QIs | Intel Finland Oy | agreed | S5-203064 | - |
| S5-203415 | Rel-16 CR 28.541 Add IOC for 5QI to DSCP mapping | Intel Finland Oy | agreed | S5-203065 | - |
| S5-203416 | Rel-16 CR 28.541 Update NRM attribute definitions | CATT | agreed | S5-203132 | - |
| S5-203417 | Rel-16 CR TS 28.541 Correct NRM definition in XML solution | CATT | agreed | S5-203133 | - |
| S5-203418 | Rel-16 CR 28.541 update SliceProfile attribute solution 1 | China Mobile Com. Corporation | agreed | S5-203280 | - |
| S5-203419 | TD proposal to add transport endpoint in NRM | Nokia, Nokia Shanghai Bell | endorsed | S5-203253 | - |
| S5-203420 | add transport information and slice mapping on backhaul endpoints | Nokia, Nokia Shanghai Bell | agreed | S5-203254 | - |
| S5-203421 | Rel-16 CR 28.622 Update PM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | agreed | S5-203247 | - |
| S5-203422 | Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | agreed | S5-203386 | - |
| S5-203423 | Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment | Nokia, Nokia Shanghai Bell | agreed | S5-203242 | - |
| S5-203424 | Rel-16 CR 28.622 Update FM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | agreed | S5-203275 | - |
| S5-203425 | Rel-16 CR 28.622 Combine class diagrams of subscription and heartbeat NRM control fragments (stage 2) | Nokia, Nokia Shanghai Bell | agreed | S5-203236 | - |
| S5-203426 | Add configuredMaxTxEIRP on NRSectorCarrier | Ericsson LM | agreed | S5-203283 | - |
| S5-203427 | Rel-16 CR 28.541 Clarification on the relation of GST, ServiceProfile and SliceProfile | Huawei | agreed | S5-203159 | - |
| S5-203428 | TS 28.536 Remove CSI from clause 4.1.1 | Ericsson LM, Huawei | approved | S5-203292 | - |
| S5-203429 | pCR 28.535 Update Clause 4.2 Management control loops | China Mobile, Ericsson | approved | S5-203246 | - |
| S5-203430 | TS 28.535 Generalise requirements | Ericsson LM, Deutsche Telekom | approved | S5-203287 | - |
| S5-203431 | pCR TS 28.535 Add use case for 5GC service assurance | Huawei | approved | S5-203142 | - |
| S5-203432 | pCR 28.536 Generic SLS Assurance Procedure | Samsung Electronics France SA,Huawei,Ericsson | approved | S5-203204 | - |
| S5-203433 | TS 28.536 Add attributes to assurance control loop | Ericsson LM.Deutsche Telekom | approved | S5-203290 | - |
| S5-203434 | TS 28.536 Add stage 3 solution | Ericsson LM | approved | S5-203291 | - |
| S5-203435 | pCR 28.535 Add use case of SLS assurance control | HUAWEI Technologies Japan K.K. | approved | S5-203189 | - |
| S5-203436 | Rel-16 CR 28.532 Add streaming data reporting service stage 2 definition | Nokia, Intel, Ericsson, Huawei | agreed | S5-203038 | - |
| S5-203437 | Rel-16 CR 32.423 Correction of the Trace streaming format definitions | Nokia, Nokia Shanghai Bell,Ericsson | agreed | S5-203240 | - |
| S5-203438 | pCR 28.810 Update Clause 6.1.2 Framework approach for classification of autonomous | HUAWEI Technologies Japan K.K.,China Mobile | approved | S5-203191 | - |
| S5-203439 | pCR 28.810 Add Clause 6.X Relation with existing standardized features | China Mobile, Huawei | approved | S5-203235 | - |
| S5-203440 | Presentation of Report to TSG TR 28.810 Version 1.0.0 | China Mobile Com. Corporation | approved | S5-203244 | - |
| S5-203441 | pCR on MDA process | Intel Corporation (UK) Ltd | approved | S5-203061 | - |
| S5-203442 | pCR Add UC on MDA process training | Intel Corporation (UK) Ltd | approved | S5-203066 | - |
| S5-203443 | pCR 28.809 Update fault management use case | Huawei | approved | S5-203147 | - |
| S5-203444 | pCR 28.809 Add use case abd potential solutions of network slice throughput analysis | Huawei | approved | S5-203203 | - |
| S5-203445 | pCR 28.809 Modification of the resource utilization analysis use case | China Mobile Com. Corporation, China Southern Power Grid | approved | S5-203248 | - |
| S5-203446 | pCR 28.809 addition of network slice load analysis requirements and solution | ETRI | approved | S5-203139 | - |
| S5-203447 | pCR 28.809 Add use case and potential solutions of cross-slice resource optimization analysis | Huawei | approved | S5-203202 | - |
| S5-203448 | pCR Add UC on MDA assisted SON coordination | Intel Corporation (UK) Ltd | approved | S5-203067 | - |
| S5-203449 | Rel-17 pCR 28.809 New use case on Inter-gNB Beam Selection Optimization in subclause 6.5 | Nokia Corporation | approved | S5-203068 | - |
| S5-203450 | pCR 28.809 Add the use case for NAS level congestion control optimization | Huawei | approved | S5-203149 | - |
| S5-203451 | pCR 28.809 Add use case and potential solutions of KPI anomaly analysis | Huawei | approved | S5-203201 | - |
| S5-203452 | pCR 28.809 Add use case of jitter analysis | China Mobile Com. Corporation, China Southern Power Grid | approved | S5-203241 | - |
| S5-203453 | Enahncing the Handover optimization use case in subclause 6.5 | Nokia Corporation | approved | S5-203135 | - |
| S5-203454 | draft TS 28.535 | Ericsson | approved | - | - |
| S5-203455 | draft TS 28.536 | Ericsson | approved | - | - |
| S5-203456 | draft TR 28.810 | China Mobile | approved | - | - |
| S5-203457 | draft TR 28.809 | Intel | approved | - | - |
| S5-203458 | Rel-16 CR 28.623 Update PM control fragment (YANG definitions) | Ericsson | agreed | - | - |
| S5-203459 | Reply to:LS on mapping with slices of different domains via Cross-domain OAM coordination | KDDI | approved | S5-203261 | - |
| S5-203460 | Rel-16 CR TS 28.623 Correct genericNRM definition in XML solution | CATT | agreed | - | - |
| S5-203461 | (reserved) | OAM | withdrawn | - | - |
| S5-203462 | (reserved) | OAM | withdrawn | - | - |
| S5-203463 | alternative solutions for CHF-controlled QM | Amdocs | noted | - | - |
| S5-203464 | Rel-16 WI Exception for Network Slice performance and Analytics Charging in 5GS | Huawei | agreed | - | - |
| S5-203465 | Presentation to TSG of TS 28.201 for Information | Huawei | approved | - | - |
| S5-203466 | draft TS 28.201 | Huawei | approved | - | - |
| S5-203467 | Rel-16 WI Exception for Network Slice Management Charging in 5GS | Nokia | agreed | - | - |
| S5-203468 | Presentation to TSG of TS 28.202 for Information | Nokia | approved | - | - |
| S5-203469 | draft TS 28.202 | Nokia | approved | - | - |
| S5-203470 | Rel-16 WI Exception for ATSSS | Nokia | agreed | - | - |
| S5-203471 | New SID Study on charging aspects of Edge Computing | Intel Corporation (UK) Ltd | agreed | S5-203053 | - |
| S5-203472 | New SID on New Measurement Methods for Charging in 5G Systems | Huawei | noted | S5-203119 | - |
| S5-203473 | Rel-16 pCR 28.202 clarification of eCTF and CSIF naming | Huawei | approved | S5-203114 |  |
| S5-203474 | Rel-16 pCR 28.202 CSIF description addition in subclause 5.2.1.1 | Huawei, Nokia | approved | S5-203117 |  |
| S5-203475 | Rel-16 pCR 28.202 clarification of MnS consumer identity | Huawei | approved | S5-203130 |  |
| S5-203476 | Rel-16 pCR 28.201 Remove the editor's notes in clause 4 and clause 5 | Huawei | approved | S5-203108 |  |
| S5-203477 | Rel-16 CR 32.290 Add CHF-Controlled Quota Management functionality | Matrixx, Amdocs | agreed | S5-203037 |  |
| S5-203478 | Rel-16 pCR 28.201 Update the clause 3 for new charging function | Huawei | approved | S5-203109 |  |
| S5-203479 | Rel-16 pCR 28.201 Update the message flow | Huawei | approved | S5-203111 |  |
| S5-203480 | Rel-16 CR 32.255 Correct the PDU Address | Huawei | agreed | S5-203097 |  |
| S5-203481 | Rel-16 CR 32.291 Correct the PDU Address | Huawei | agreed | S5-203099 |  |
| S5-203482 | Rel-16 CR 32.291 Correct the Charging Data Response for NEF charging | Huawei | agreed | S5-203100 |  |
| S5-203483 | Rel-16 pCR 28.202 Adding provisioning operations | Ericsson | withdrawn | S5-203234 |  |
| S5-203484 | Rel-16 CR 32.255 Settings of Supported Features for CHFCQM | Matrixx | agreed | S5-203137 |  |
| S5-203485 | Rel-16 CR 32.298 Correcting RATtype in CHF CDR | Ericsson | agreed | S5-203227 |  |
| S5-203486 | Rel-16 CR 32.298 Correcting backwards compatibility on CHF CDR | Ericsson | agreed | S5-203226 |  |
| S5-203487 | Rel-16 CR 32.291 Correcting pduSessionInformation as optional | Ericsson | agreed | S5-203224 |  |
| S5-203488 | Rel-16 CR 32.255 Correcting of PDU session information in charging data response | Ericsson | agreed | S5-203223 |  |
| S5-203489 | Correction of two SCUR Scenarios figure title and message description | China Telecomunication Corp. | agreed | S5-203008 |  |
| S5-203490 | Rel-16 CR 32.291 Adding CHFCQM as supported feature | Ericsson LM | agreed |  |  |
| S5-203491 | Correction of NF Consumers AMF for Nchf\_ConvergedCharging\_Release | China Telecomunication Corp. | agreed | S5-203009 |  |
| S5-203492 | Rel-16 CR 32.290 Flows for switch to offline | Ericsson | agreed | S5-203229 |  |
| S5-203493 | Rel-16 CR 32.297 Add the Bns interface | Huawei | agreed | S5-203106 |  |
| S5-203494 | Rel-16 CR 32.291 Correct offline only charging service API due to maintainance | Huawei | agreed | S5-203126 |  |
| S5-203495 | Rel-16 pCR 28.202 Adding provisioning operations | Ericsson | approved | S5-203234 |  |
| S5-203496 | Rel-16 pCR 28.202 Align terminology in principle and requirements with the scope | Nokia, Nokia Shanghai Bell | approved | S5-203293 |  |
| S5-203497 | Rel-16 pCR 28.202 Introduce requirements based on new architecture. | Nokia, Nokia Shanghai Bell | approved | S5-203294 |  |
| S5-203498 | Rel-16 pCR 28.202 Update flows based on internal CTF | Nokia, Nokia Shanghai Bell | approved | S5-203296 |  |
| S5-203499 | Rel-16 pCR 28.202 Introduce flows based on CSIF | Nokia, Nokia Shanghai Bell | approved | S5-203297 |  |
| S5-203500 | Rel-16 pCR 28.202 Update triggers description | Nokia, Nokia Shanghai Bell | approved | S5-203298 |  |
| S5-203501 | Rel-16 pCR 28.202 Introduce CHF selection | Nokia, Nokia Shanghai Bell | approved | S5-203299 |  |
| S5-203502 | Rel-16 pCR 28.202 Introduce CDR description | Nokia, Nokia Shanghai Bell | approved | S5-203300 |  |
| S5-203503 | Rel-16 pCR 28.202 Solve Editor's note on NSI | Nokia, Nokia Shanghai Bell | approved | S5-203305 |  |
| S5-203504 | Rel-16 CR 32.255 Introduction of non-3GPP access information for MA PDU session | Nokia, Nokia Shanghai Bell | agreed | S5-203044 |  |
| S5-203505 | Rel-16 CR 32.255 Introduction of MA PDU information in detailed messages | Nokia, Nokia Shanghai Bell | agreed | S5-203046 |  |
| S5-203506 | Rel-16 CR 32.298 Add 5WWC charging information | Huawei | agreed | S5-203127 |  |
| S5-203507 | Rel-16 CR 32.255 Add Trusted non-3GPP access related charging requirements | Huawei | agreed | S5-203128 |  |
| S5-203508 | CH agenda and time plan | WG vice Chair (Nokia) | noted | S5-203094 |  |
| S5-203509 | New WID on 5G charging for CIOT | Huawei | noted | S5-203120 | - |
| S5-203510 | New WID on evolution of 5G data connectivity charging | Huawei | noted | S5-203121 | - |
| S5-203511 | Rel-16 pCR 28.201 Add the NS performance and analytics charging information | Huawei | approved | S5-203110 | - |
| S5-203512 | Rel-15 CR 32.291 OpenAPI version update | Huawei | agreed | - | - |
| S5-203513 | Rel-16 CR 32.291 OpenAPI version update | Huawei | agreed | - | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S5-203000 | 04/06/2020 11:58:14 | approved |
| S5-203001 | 04/06/2020 11:58:17 | approved |
| S5-203002 | 04/06/2020 11:58:19 | noted |
| S5-203004 | 04/06/2020 13:38:17 | noted |
| S5-203005 | 04/06/2020 13:38:20 | noted |
| S5-203008 | 08/06/2020 12:53:59 | available |
| S5-203008 | 08/06/2020 12:54:01 | ev |
| S5-203009 | 08/06/2020 12:54:21 | available |
| S5-203010 | 08/06/2020 12:59:55 | agreed |
| S5-203011 | 04/06/2020 15:01:43 | approved |
| S5-203012 | 04/06/2020 15:01:46 | approved |
| S5-203013 | 04/06/2020 15:01:55 | approved |
| S5-203014 | 05/06/2020 16:49:30 | noted |
| S5-203015 | 08/06/2020 12:54:30 | approved |
| S5-203015 | 08/06/2020 12:54:31 | noted |
| S5-203016 | 04/06/2020 14:52:54 | approved |
| S5-203017 | 04/06/2020 14:07:52 | available |
| S5-203018 | 04/06/2020 14:50:38 | approved |
| S5-203019 | 04/06/2020 14:50:42 | approved |
| S5-203020 | 04/06/2020 14:51:55 | approved |
| S5-203021 | 04/06/2020 13:32:19 | noted |
| S5-203022 | 05/06/2020 09:29:01 | revised |
| S5-203023 | 05/06/2020 09:29:19 | revised |
| S5-203024 | 04/06/2020 13:35:33 | replied to |
| S5-203025 | 04/06/2020 13:38:51 | noted |
| S5-203026 | 04/06/2020 13:38:55 | noted |
| S5-203027 | 05/06/2020 16:36:25 | postponed |
| S5-203028 | 04/06/2020 13:39:07 | revised |
| S5-203028 | 04/06/2020 13:39:30 | replied to |
| S5-203029 | 04/06/2020 13:40:12 | replied to |
| S5-203030 | 04/06/2020 14:52:35 | replied to |
| S5-203031 | 05/06/2020 10:16:05 | replied to |
| S5-203032 | 04/06/2020 14:41:11 | noted |
| S5-203033 | 04/06/2020 13:33:29 | noted |
| S5-203034 | 04/06/2020 13:44:51 | postponed |
| S5-203035 | 04/06/2020 13:33:42 | replied to |
| S5-203036 | 04/06/2020 13:44:55 | postponed |
| S5-203037 | 05/06/2020 16:44:56 | available |
| S5-203037 | 05/06/2020 16:45:11 | reserved |
| S5-203038 | 05/06/2020 15:08:48 | revised |
| S5-203039 | 05/06/2020 16:45:20 | available |
| S5-203040 | 05/06/2020 16:49:34 | noted |
| S5-203041 | 05/06/2020 16:54:33 | noted |
| S5-203042 | 08/06/2020 12:59:57 | agreed |
| S5-203043 | 08/06/2020 13:00:00 | agreed |
| S5-203044 | 08/06/2020 13:00:14 | available |
| S5-203045 | 08/06/2020 13:00:25 | agreed |
| S5-203046 | 08/06/2020 13:00:38 | available |
| S5-203047 | 05/06/2020 16:54:36 | noted |
| S5-203048 | 08/06/2020 13:00:51 | agreed |
| S5-203049 | 08/06/2020 13:02:12 | agreed |
| S5-203050 | 04/06/2020 13:34:49 | revised |
| S5-203051 | 08/06/2020 12:54:36 | agreed |
| S5-203052 | 04/06/2020 13:46:17 | revised |
| S5-203053 | 05/06/2020 16:36:59 | revised |
| S5-203054 | 04/06/2020 14:01:57 | available |
| S5-203055 | 04/06/2020 14:02:36 | available |
| S5-203056 | 04/06/2020 14:03:57 | revised |
| S5-203057 | 04/06/2020 14:05:25 | revised |
| S5-203058 | 04/06/2020 14:06:15 | revised |
| S5-203059 | 04/06/2020 14:06:26 | revised |
| S5-203060 | 04/06/2020 14:08:35 | revised |
| S5-203061 | 05/06/2020 15:12:44 | revised |
| S5-203064 | 05/06/2020 10:23:45 | revised |
| S5-203065 | 05/06/2020 10:24:04 | revised |
| S5-203066 | 05/06/2020 15:13:08 | revised |
| S5-203067 | 05/06/2020 15:17:07 | revised |
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| S5-203392 | 05/06/2020 09:29:20 | agreed |
| S5-203393 | 05/06/2020 09:29:41 | agreed |
| S5-203394 | 05/06/2020 09:29:51 | agreed |
| S5-203395 | 05/06/2020 09:30:01 | agreed |
| S5-203396 | 05/06/2020 09:30:10 | agreed |
| S5-203397 | 05/06/2020 09:30:20 | agreed |
| S5-203398 | 05/06/2020 09:30:37 | agreed |
| S5-203399 | 05/06/2020 09:30:49 | agreed |
| S5-203400 | 05/06/2020 09:31:12 | agreed |
| S5-203401 | 05/06/2020 09:31:29 | agreed |
| S5-203402 | 05/06/2020 10:12:24 | agreed |
| S5-203403 | 05/06/2020 10:12:34 | agreed |
| S5-203404 | 05/06/2020 10:12:43 | agreed |
| S5-203405 | 05/06/2020 10:14:12 | agreed |
| S5-203406 | 05/06/2020 10:14:24 | agreed |
| S5-203407 | 05/06/2020 10:14:59 | agreed |
| S5-203408 | 05/06/2020 10:15:19 | agreed |
| S5-203409 | 05/06/2020 10:15:27 | agreed |
| S5-203410 | 05/06/2020 10:17:46 | approved |
| S5-203411 | 05/06/2020 10:18:51 | agreed |
| S5-203412 | 05/06/2020 10:19:35 | agreed |
| S5-203413 | 05/06/2020 10:19:55 | agreed |
| S5-203414 | 05/06/2020 10:23:47 | reserved |
| S5-203414 | 15/06/2020 08:09:09 | agreed |
| S5-203415 | 05/06/2020 10:24:04 | agreed |
| S5-203416 | 05/06/2020 10:24:28 | agreed |
| S5-203417 | 05/06/2020 10:24:39 | agreed |
| S5-203418 | 05/06/2020 10:25:27 | agreed |
| S5-203419 | 05/06/2020 10:41:53 | reserved |
| S5-203420 | 05/06/2020 10:42:09 | agreed |
| S5-203421 | 05/06/2020 10:45:45 | agreed |
| S5-203422 | 05/06/2020 10:47:16 | agreed |
| S5-203423 | 05/06/2020 10:48:04 | agreed |
| S5-203424 | 05/06/2020 10:48:38 | agreed |
| S5-203425 | 05/06/2020 12:37:13 | agreed |
| S5-203426 | 05/06/2020 12:38:32 | agreed |
| S5-203427 | 05/06/2020 10:40:52 | agreed |
| S5-203428 | 05/06/2020 15:04:09 | approved |
| S5-203429 | 05/06/2020 15:03:20 | reserved |
| S5-203429 | 15/06/2020 08:09:20 | approved |
| S5-203430 | 05/06/2020 15:05:16 | approved |
| S5-203431 | 05/06/2020 15:05:33 | approved |
| S5-203432 | 05/06/2020 15:05:58 | approved |
| S5-203433 | 05/06/2020 15:07:24 | approved |
| S5-203434 | 05/06/2020 15:07:40 | reserved |
| S5-203434 | 11/06/2020 12:29:29 | agreed |
| S5-203434 | 11/06/2020 12:29:31 | approved |
| S5-203435 | 05/06/2020 15:08:18 | approved |
| S5-203436 | 05/06/2020 15:08:50 | agreed |
| S5-203437 | 05/06/2020 15:10:50 | agreed |
| S5-203438 | 05/06/2020 15:11:42 | approved |
| S5-203439 | 05/06/2020 15:11:52 | approved |
| S5-203440 | 05/06/2020 15:12:16 | reserved |
| S5-203440 | 11/06/2020 12:29:50 | approved |
| S5-203441 | 05/06/2020 15:12:47 | approved |
| S5-203442 | 05/06/2020 15:13:10 | approved |
| S5-203443 | 05/06/2020 15:13:41 | approved |
| S5-203444 | 05/06/2020 15:14:51 | approved |
| S5-203445 | 05/06/2020 15:15:31 | approved |
| S5-203446 | 05/06/2020 15:16:23 | approved |
| S5-203447 | 05/06/2020 15:16:40 | approved |
| S5-203448 | 05/06/2020 15:17:12 | approved |
| S5-203449 | 05/06/2020 15:17:22 | approved |
| S5-203450 | 05/06/2020 15:17:36 | approved |
| S5-203451 | 05/06/2020 15:17:51 | approved |
| S5-203452 | 05/06/2020 15:18:08 | approved |
| S5-203453 | 05/06/2020 15:14:02 | approved |
| S5-203454 | 05/06/2020 15:19:19 | reserved |
| S5-203454 | 16/06/2020 09:25:27 | approved |
| S5-203455 | 05/06/2020 15:20:19 | reserved |
| S5-203455 | 16/06/2020 09:25:29 | approved |
| S5-203456 | 05/06/2020 15:21:39 | reserved |
| S5-203456 | 11/06/2020 12:29:59 | approved |
| S5-203457 | 05/06/2020 15:22:42 | reserved |
| S5-203457 | 15/06/2020 08:09:50 | approved |
| S5-203458 | 05/06/2020 10:47:43 | reserved |
| S5-203458 | 16/06/2020 09:54:42 | agreed |
| S5-203459 | 05/06/2020 10:43:52 | reserved |
| S5-203459 | 15/06/2020 08:08:54 | approved |
| S5-203460 | 05/06/2020 15:00:22 | agreed |
| S5-203461 | 08/06/2020 13:55:52 | withdrawn |
| S5-203462 | 08/06/2020 13:55:52 | withdrawn |
| S5-203463 | 08/06/2020 13:33:08 | noted |
| S5-203464 | 08/06/2020 13:03:46 | agreed |
| S5-203465 | 08/06/2020 13:15:58 | agreed |
| S5-203466 | 05/06/2020 16:01:10 | reserved |
| S5-203466 | 15/06/2020 08:10:03 | approved |
| S5-203467 | 08/06/2020 13:16:52 | agreed |
| S5-203468 | 08/06/2020 13:17:34 | approved |
| S5-203469 | 05/06/2020 16:02:07 | reserved |
| S5-203469 | 11/06/2020 12:30:05 | approved |
| S5-203470 | 08/06/2020 13:18:55 | agreed |
| S5-203471 | 05/06/2020 16:37:07 | agreed |
| S5-203472 | 05/06/2020 16:37:28 | noted |
| S5-203473 | 05/06/2020 16:54:54 | approved |
| S5-203474 | 05/06/2020 16:55:21 | approved |
| S5-203475 | 05/06/2020 16:55:24 | approved |
| S5-203476 | 05/06/2020 16:50:30 | agreed |
| S5-203477 | 05/06/2020 16:45:01 | agreed |
| S5-203478 | 05/06/2020 16:50:49 | approved |
| S5-203479 | 05/06/2020 16:50:52 | approved |
| S5-203480 | 08/06/2020 12:55:58 | agreed |
| S5-203481 | 08/06/2020 12:56:27 | agreed |
| S5-203482 | 08/06/2020 12:56:55 | agreed |
| S5-203484 | 05/06/2020 16:45:56 | agreed |
| S5-203485 | 08/06/2020 12:56:57 | agreed |
| S5-203486 | 08/06/2020 12:59:04 | agreed |
| S5-203487 | 08/06/2020 12:58:34 | agreed |
| S5-203488 | 08/06/2020 12:58:11 | agreed |
| S5-203489 | 08/06/2020 12:53:54 | agreed |
| S5-203490 | 05/06/2020 16:46:57 | agreed |
| S5-203491 | 08/06/2020 12:54:13 | agreed |
| S5-203492 | 05/06/2020 16:46:25 | agreed |
| S5-203493 | 05/06/2020 16:49:46 | agreed |
| S5-203494 | 08/06/2020 12:57:42 | agreed |
| S5-203495 | 08/06/2020 12:49:36 | approved |
| S5-203496 | 08/06/2020 12:50:00 | approved |
| S5-203497 | 08/06/2020 12:50:27 | approved |
| S5-203498 | 08/06/2020 12:51:24 | approved |
| S5-203499 | 05/06/2020 16:56:14 | approved |
| S5-203500 | 08/06/2020 12:52:18 | approved |
| S5-203501 | 08/06/2020 12:52:43 | approved |
| S5-203502 | 08/06/2020 13:22:34 | approved |
| S5-203503 | 08/06/2020 12:48:47 | approved |
| S5-203504 | 08/06/2020 13:00:09 | agreed |
| S5-203505 | 08/06/2020 13:00:42 | agreed |
| S5-203506 | 08/06/2020 13:03:03 | agreed |
| S5-203507 | 08/06/2020 13:03:19 | agreed |
| S5-203508 | 05/06/2020 16:36:09 | noted |
| S5-203509 | 05/06/2020 16:42:36 | withdrawn |
| S5-203509 | 05/06/2020 16:52:53 | noted |
| S5-203510 | 05/06/2020 16:44:11 | withdrawn |
| S5-203510 | 05/06/2020 16:52:51 | noted |
| S5-203511 | 05/06/2020 16:53:36 | approved |
| S5-203512 | 05/06/2020 15:59:00 | reserved |
| S5-203512 | 15/06/2020 08:09:56 | agreed |
| S5-203513 | 05/06/2020 15:59:06 | reserved |
| S5-203513 | 15/06/2020 08:10:00 | agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-203160 | Rel-16 CR 28.310 Update on D-SON ES solution management service | Huawei | 28.310 | 0001 | - | Rel-16 | F | EE\_5G | revised |
| S5-203332 | Rel-16 CR 28.310 Update on D-SON ES solution management service | Huawei | 28.310 | 0001 | 1 | Rel-16 | F | EE\_5G | agreed |
| S5-203388 | Rel-16 CR 28.530 Clarification on network slice related identifiers | Nokia, Nokia Shanghai Bell, Intel, Huawei | 28.530 | 0025 | 2 | Rel-16 | F | TEI16 | agreed |
| S5-203258 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.530 | 0027 | - | Rel-16 | F | TEI16 | revised |
| S5-203411 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.530 | 0027 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203154 | Rel-15 CR 28.531 Correction on AllocateNsi procedure | Huawei | 28.531 | 0048 | - | Rel-15 | F | TEI15 | not pursued |
| S5-203155 | Rel-16 CR 28.531 Correction on AllocateNsi procedure | Huawei | 28.531 | 0049 | - | Rel-16 | A | TEI15 | not pursued |
| S5-203156 | Rel-15 CR 28.531 Correction on DeallocateNsi procedure | Huawei | 28.531 | 0050 | - | Rel-15 | F | TEI15 | not pursued |
| S5-203157 | Rel-16 CR 28.531 Correction on DeallocateNsi procedure | Huawei | 28.531 | 0051 | - | Rel-16 | A | TEI15 | not pursued |
| S5-203304 | Rel-16 CR 28.531 Correction of provisioning services and procedures | Nokia, Nokia Shanghai Bell, Orange | 28.531 | 0052 | - | Rel-16 | F | NETSLICE-PRO\_NS, TEI16 | not pursued |
| S5-203312 | Rel-16 CR TS 28.532 Update URI for generic fault supervision management service | Huawei | 28.532 | 0114 | 2 | Rel-16 | F | TEI16 | agreed |
| S5-203311 | Rel-16 CR TS 28.532 Update URI for performance data file reporting service | Huawei | 28.532 | 0115 | 2 | Rel-16 | F | TEI16 | agreed |
| S5-203038 | Rel-16 CR 28.532 Add streaming data reporting service stage 2 definition | Nokia, Intel, Ericsson, Huawei | 28.532 | 0117 | 2 | Rel-16 | B | OAM\_RTT | revised |
| S5-203436 | Rel-16 CR 28.532 Add streaming data reporting service stage 2 definition | Nokia, Intel, Ericsson, Huawei | 28.532 | 0117 | 3 | Rel-16 | B | OAM\_RTT | agreed |
| S5-203212 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 mapping of operations | Nokia, Intel, Ericsson, Huawei | 28.532 | 0118 | 2 | Rel-16 | B | OAM\_RTT | agreed |
| S5-203213 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 resources | Nokia, Intel, Ericsson, Huawei | 28.532 | 0119 | 2 | Rel-16 | B | OAM\_RTT | agreed |
| S5-203215 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 data types | Nokia, Intel, Ericsson, Huawei | 28.532 | 0120 | 2 | Rel-16 | B | OAM\_RTT | agreed |
| S5-203217 | Rel-16 CR 28.532 Add streaming data reporting service stage 3 OpenAPI definition | Nokia, Intel, Ericsson, Huawei | 28.532 | 0121 | 2 | Rel-16 | B | OAM\_RTT | agreed |
| S5-203182 | Rel-15 CR TS 28.532 Move XML file format definition from stage2 to stage3 | HUAWEI Technologies Japan K.K. | 28.532 | 0122 | - | Rel-15 | F | NETSLICE | agreed |
| S5-203183 | Rel-16 CR TS 28.532 Move XML file format definition from stage2 to stage3 | HUAWEI Technologies Japan K.K. | 28.532 | 0123 | - | Rel-16 | A | NETSLICE | agreed |
| S5-203197 | Correct and align notifyNewSecurityAlarm | Oy LM Ericsson AB | 28.532 | 0124 | - | Rel-15 | F | TEI15 | not pursued |
| S5-203198 | Correct and align notifyNewSecurityAlarm | Oy LM Ericsson AB | 28.532 | 0125 | - | Rel-16 | A | TEI15 | not pursued |
| S5-203252 | Rel-16 CR 28.532 Update Fault Supervision MnS (stage 2) | Nokia, Nokia Shanghai Bell | 28.532 | 0126 | - | Rel-16 | C | TEI16, REST\_SS | revised |
| S5-203407 | Rel-16 CR 28.532 Update Fault Supervision MnS (stage 2) | Nokia, Nokia Shanghai Bell | 28.532 | 0126 | 1 | Rel-16 | C | TEI16, REST\_SS | agreed |
| S5-203263 | Rel-16 CR 28.532 Update Fault Supervision MnS (REST SS) | Nokia, Nokia Shanghai Bell | 28.532 | 0127 | - | Rel-16 | C | TEI16, REST\_SS | revised |
| S5-203408 | Rel-16 CR 28.532 Update Fault Supervision MnS (REST SS) | Nokia, Nokia Shanghai Bell | 28.532 | 0127 | 1 | Rel-16 | C | TEI16, REST\_SS | agreed |
| S5-203264 | Rel-16 CR 28.532 Update Fault Supervision MnS (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.532 | 0128 | - | Rel-16 | C | TEI16, REST\_SS | revised |
| S5-203409 | Rel-16 CR 28.532 Update Fault Supervision MnS (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.532 | 0128 | 1 | Rel-16 | C | TEI16, REST\_SS | agreed |
| S5-203265 | Rel-16 CR 28.532 Remove voided notes from the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0129 | - | Rel-16 | F | TEI16, REST\_SS | not pursued |
| S5-203267 | Rel-16 CR 28.532 Applicability of Solution Sets | Nokia, Nokia Shanghai Bell | 28.532 | 0130 | - | Rel-16 | F | ONAP3GPP | not pursued |
| S5-203268 | Rel-16 CR 28.532 Add MnS profile | Nokia, Nokia Shanghai Bell | 28.532 | 0131 | - | Rel-16 | B | eNRM | not pursued |
| S5-203279 | YANG-Push Notifications | Ericsson Hungary Ltd | 28.532 | 0132 | - | Rel-16 | B | eNRM | not pursued |
| S5-203315 | Correction of ONAP references | Oy LM Ericsson AB | 28.532 | 0133 | - | Rel-16 | F | ONAP3GPP | agreed |
| S5-203129 | Rel 15 CR MnS Query | Samsung Electronics France SA | 28.533 | 0069 | - | Rel-15 | F | 5GDMS | withdrawn |
| S5-203143 | Rel-16 CR TS 28.533 Clarify the MnS producer profile | Huawei | 28.533 | 0070 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-203150 | Rel16 CR 28.533 Add clarifications about how to distinguish diffrent tenant | Huawei | 28.533 | 0071 | - | Rel-16 | B | MEMTANE | not pursued |
| S5-203390 | new NRM fragment to support RIM stage 2 | Nokia, Nokia Shanghai Bell,China Mobile | 28.541 | 0283 | 2 | Rel-16 | B | eNRM | agreed |
| S5-203329 | New NRM fragment to support RIM stage 3 | Nokia, Nokia Shanghai Bell, China Mobile | 28.541 | 0284 | 1 | Rel-16 | B | eNRM | agreed |
| S5-203064 | Rel-16 CR 28.541 Add IOC for configurable 5QIs | Intel Finland Oy | 28.541 | 0286 | - | Rel-16 | B | eNRM | revised |
| S5-203414 | Rel-16 CR 28.541 Add IOC for configurable 5QIs | Intel Finland Oy | 28.541 | 0286 | 1 | Rel-16 | B | eNRM | agreed |
| S5-203065 | Rel-16 CR 28.541 Add IOC for 5QI to DSCP mapping | Intel Finland Oy | 28.541 | 0287 | - | Rel-16 | B | eNRM | revised |
| S5-203415 | Rel-16 CR 28.541 Add IOC for 5QI to DSCP mapping | Intel Finland Oy | 28.541 | 0287 | 1 | Rel-16 | B | eNRM | agreed |
| S5-203071 | Rel-16 CR TS 28.541 Add attributes of related to HO parameter | Intel Corporation (UK) Ltd | 28.541 | 0288 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-203074 | CR TS 28.541 Stage3 add the NRM fragement for SON management | Huawei, Orange, Intel | 28.541 | 0289 | - | Rel-16 | B | SON\_5G | revised |
| S5-203331 | CR TS 28.541 Stage3 add the NRM fragment for SON management | Huawei, Orange, Intel | 28.541 | 0289 | 1 | Rel-16 | B | SON\_5G | agreed |
| S5-203075 | CR TS 28.541 stage3 ANR management for EN-DC architecture | Huawei | 28.541 | 0290 | - | Rel-16 | B | SON\_5G | agreed |
| S5-203078 | CR TS 28.541 Stage2 MRO Function | Huawei,Ericsson,Intel | 28.541 | 0291 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-203316 | CR TS 28.541 Add the NRM fragment for SON management | Huawei, Orange, Intel | 28.541 | 0291 | 1 | Rel-16 | B | SON\_5G | agreed |
| S5-203083 | Rel-16 CR TS 28.541 Add NRPhysicalCellDU NRM to support network sharing | ZTE Corporation | 28.541 | 0292 | - | Rel-16 | B | eNRM | not pursued |
| S5-203131 | Rel-16 CR 28.541 Add CommModelList NRM | CATT | 28.541 | 0293 | - | Rel-16 | F | eNRM | agreed |
| S5-203132 | Rel-16 CR 28.541 Update NRM attribute definitions | CATT | 28.541 | 0294 | - | Rel-16 | F | eNRM | revised |
| S5-203416 | Rel-16 CR 28.541 Update NRM attribute definitions | CATT | 28.541 | 0294 | 1 | Rel-16 | F | eNRM | agreed |
| S5-203133 | Rel-16 CR TS 28.541 Correct NRM definition in XML solution | CATT | 28.541 | 0295 | - | Rel-16 | F | eNRM | revised |
| S5-203417 | Rel-16 CR TS 28.541 Correct NRM definition in XML solution | CATT | 28.541 | 0295 | 1 | Rel-16 | F | eNRM | agreed |
| S5-203134 | Rel-16 CR TS 28.623 Correct genericNRM definition in XML solution | CATT | 28.541 | 0296 | - | Rel-16 | F | eNRM | not pursued |
| S5-203136 | Rel 16 deleting perfReq from SliceProfile | Samsung Electronics France SA | 28.541 | 0297 | - | Rel-16 | F | eNRM | not pursued |
| S5-203153 | Rel-16 CR 28.541 Correction on SliceProfile | Huawei | 28.541 | 0298 | - | Rel-16 | F | TEI16 | merged |
| S5-203158 | Rel-16 CR 28.541 Update on ServiceProfile and SliceProfile | Huawei | 28.541 | 0299 | - | Rel-16 | C | TEI16 | not pursued |
| S5-203159 | Rel-16 CR 28.541 Clarification on the relation of GST, ServiceProfile and SliceProfile | Huawei | 28.541 | 0300 | - | Rel-16 | F | TEI16 | revised |
| S5-203427 | Rel-16 CR 28.541 Clarification on the relation of GST, ServiceProfile and SliceProfile | Huawei | 28.541 | 0300 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203161 | Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation | Huawei, Orange | 28.541 | 0301 | - | Rel-16 | B | EE\_5G | revised |
| S5-203333 | Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation | Huawei, Orange | 28.541 | 0301 | 1 | Rel-16 | B | EE\_5G | agreed |
| S5-203185 | Rel-16 CR TS 28.541 Update the decription for RRMPolicy\_ and resouceType | HUAWEI Technologies Japan K.K.,Nokia, Ericsson | 28.541 | 0302 | - | Rel-16 | F | eNRM | agreed |
| S5-203186 | Rel-16 CR TS 28.541 Update definition for attribute localAddress in EP\_RP IOC | HUAWEI Technologies Japan K.K.,Ericsson | 28.541 | 0303 | - | Rel-16 | F | eNRM | agreed |
| S5-203194 | Correction of references | Oy LM Ericsson AB | 28.541 | 0304 | - | Rel-15 | F | TEI15 | revised |
| S5-203405 | Correction of references | Oy LM Ericsson AB | 28.541 | 0304 | 1 | Rel-15 | F | TEI15 | agreed |
| S5-203195 | Correction of references | Oy LM Ericsson AB | 28.541 | 0305 | - | Rel-16 | A | TEI15 | revised |
| S5-203406 | Correction of references | Oy LM Ericsson AB | 28.541 | 0305 | 1 | Rel-16 | A | TEI15 | agreed |
| S5-203254 | add transport information and slice mapping on backhaul endpoints | Nokia, Nokia Shanghai Bell | 28.541 | 0306 | - | Rel-16 | F | TEI16 | revised |
| S5-203420 | add transport information and slice mapping on backhaul endpoints | Nokia, Nokia Shanghai Bell | 28.541 | 0306 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203255 | add transport information and slice mapping on backhaul endpoints stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0307 | - | Rel-16 | F | TEI16 | agreed |
| S5-203256 | update slice NRM based on refined slice definitions | Nokia, Nokia Shanghai Bell, Intel | 28.541 | 0308 | - | Rel-16 | F | TEI16 | not pursued |
| S5-203257 | update slice NRM based on refined slice definitions stage 3 | Nokia, Nokia Shanghai Bell, Intel | 28.541 | 0309 | - | Rel-16 | F | TEI16 | withdrawn |
| S5-203259 | add RIM RS attributes stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0310 | - | Rel-16 | B | eNRM | not pursued |
| S5-203260 | add RIM RS attributes stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0311 | - | Rel-16 | B | eNRM | withdrawn |
| S5-203280 | Rel-16 CR 28.541 update SliceProfile attribute solution 1 | China Mobile Com. Corporation | 28.541 | 0312 | - | Rel-16 | F | eNRM | revised |
| S5-203418 | Rel-16 CR 28.541 update SliceProfile attribute solution 1 | China Mobile Com. Corporation | 28.541 | 0312 | 1 | Rel-16 | F | eNRM | agreed |
| S5-203281 | Clarify definition of configuredMaxTxPower in NRSectorCarrier | Ericsson LM | 28.541 | 0313 | - | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-203282 | R-16 CR 28.541 Update SliceProfile attributes solution 2 | China Mobile Com. Corporation | 28.541 | 0314 | - | Rel-16 | F | eNRM | not pursued |
| S5-203283 | Add configuredMaxTxEIRP on NRSectorCarrier | Ericsson LM | 28.541 | 0315 | - | Rel-16 | B | eNRM | revised |
| S5-203426 | Add configuredMaxTxEIRP on NRSectorCarrier | Ericsson LM | 28.541 | 0315 | 1 | Rel-16 | B | eNRM | agreed |
| S5-203284 | Stage 3 Add configuredMaxTxEIRP on NRSectorCarrier | Ericsson LM | 28.541 | 0316 | - | Rel-16 | B | eNRM | agreed |
| S5-203286 | Update ServiceProfile to align with GST | Ericsson LM | 28.541 | 0317 | - | Rel-16 | F | MA5SLA | not pursued |
| S5-203387 | Update NRM YANG for 28.541 | Ericsson | 28.541 | 0318 | - | Rel-16 | F | eNRM | agreed |
| S5-203358 | Rel-16 CR 28.541 Add ES coverage relation in NRCellRelation Stage 3 | Huawei,Orange | 28.541 | 0319 | - | Rel-16 | B | EE\_5G | agreed |
| S5-203181 | Rel-16 CR TS 28.545 Add description for MnS components used for configurable FM contro | HUAWEI Technologies Japan K.K. | 28.545 | 0005 | - | Rel-16 | B | eNRM | revised |
| S5-203404 | Rel-16 CR TS 28.545 Add description for MnS components used for configurable FM contro | HUAWEI Technologies Japan K.K. | 28.545 | 0005 | 1 | Rel-16 | B | eNRM | agreed |
| S5-203184 | Rel-15 CR TS 28.545 Update Clause 8 Virtualized resource alarm correlation | HUAWEI Technologies Japan K.K. | 28.545 | 0006 | - | Rel-15 | F | NETSLICE-FS5G | revised |
| S5-203412 | Rel-15 CR TS 28.545 Update Clause 8 Virtualized resource alarm correlation | HUAWEI Technologies Japan K.K. | 28.545 | 0006 | 1 | Rel-15 | F | NETSLICE-FS5G | agreed |
| S5-203179 | Rel-15 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | 28.550 | 0055 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-203402 | Rel-15 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | 28.550 | 0055 | 1 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-203180 | Rel-16 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | 28.550 | 0056 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-203403 | Rel-16 CR TS 28.550 Add description for MnS components used for configurable performance control | HUAWEI Technologies Japan K.K.,Intel | 28.550 | 0056 | 1 | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-203188 | Rel-16 CR TS 28.550 Add use case for performance management supporting multiple tenant | HUAWEI Technologies Japan K.K. | 28.550 | 0057 | - | Rel-16 | B | MEMTANE | revised |
| S5-203351 | Rel-16 CR TS 28.550 Add use case for performance management supporting multiple tenant | HUAWEI Technologies Japan K.K. | 28.550 | 0057 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-203285 | Rel-16 CR 28.550 Convert performance measurement job control service API to YAML | Intel Corporation (UK) Ltd | 28.550 | 0058 | - | Rel-16 | C | TEI16,NETSLICE-ADPM5G | agreed |
| S5-203058 | Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE | Intel Finland Oy | 28.552 | 0215 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203342 | Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE | Intel Finland Oy | 28.552 | 0215 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203059 | Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE | Intel Finland Oy | 28.552 | 0216 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203343 | Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE | Intel Finland Oy | 28.552 | 0216 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203017 | Modification of “Distribution of Normally Released Call (5QI 1 QoS Flow) Duration” and “Distribution of Abnormally Released Call (5QI 1 QoS Flow) Duration” measurements. | Nokia Solutions & Networks (I) | 28.552 | 0228 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-203060 | Rel-16 CR 28.552 Add measurements on N9 interface for UPF | Intel Finland Oy | 28.552 | 0229 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203348 | Rel-16 CR 28.552 Add measurements on N9 interface for UPF | Intel Finland Oy | 28.552 | 0229 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203069 | Rel-16 CR TS 28.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | 28.552 | 0230 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-203080 | Rel-16 CR TS 28.552 Addition of authentication measurements for AMF | China Mobile Com. Corporation,ZTE | 28.552 | 0231 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203344 | Rel-16 CR TS 28.552 Addition of authentication measurements for AMF | China Mobile Com. Corporation,ZTE | 28.552 | 0231 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203081 | Rel-16 CR TS 28.552 Addition of system resource average load measurement for SMF | China Mobile Com. Corporation,ZTE | 28.552 | 0232 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-203085 | R16 CR TS28.552 ADD UL Cell PDCP SDU Data Volume on Xn Interface | ZTE Corporation, China Mobile | 28.552 | 0233 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-203086 | R16 CR TS28.552 Add UE power headroom Measurement | ZTE Corporation, China Mobile | 28.552 | 0234 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203334 | R16 CR TS28.552 Add UE power headroom Measurement | ZTE Corporation, China Mobile | 28.552 | 0234 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203087 | Rel-16 CR TS 28.552 Addition of QoS flow measurements for UPF | China Mobile Com. Corporation,ZTE | 28.552 | 0235 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203345 | Rel-16 CR TS 28.552 Addition of QoS flow measurements for UPF | China Mobile Com. Corporation,ZTE | 28.552 | 0235 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203088 | R16 CR TS28.552 Modify DL Cell PDCP SDU Data Volume on Xn Interface | ZTE Corporation, China Mobile | 28.552 | 0236 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-203089 | R16 CR TS28.552 Add Paging Measurement | ZTE Corporation, China Mobile | 28.552 | 0237 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203349 | R16 CR TS28.552 Add Paging Measurement | ZTE Corporation, China Mobile | 28.552 | 0237 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203090 | Rel-16 CR TS 28.552 Addition of AM policy association update measurements for PCF | China Mobile Com. Corporation,ZTE | 28.552 | 0238 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203346 | Rel-16 CR TS 28.552 Addition of AM policy association update measurements for PCF | China Mobile Com. Corporation,ZTE | 28.552 | 0238 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203091 | R16 CR TS28.552 Add Number of UE and MAC data volume related SSB beam index Measurements | ZTE Corporation, China Mobile | 28.552 | 0239 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203350 | R16 CR TS28.552 Add Number of UE and MAC data volume related SSB beam index Measurements | ZTE Corporation, China Mobile | 28.552 | 0239 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203092 | R16 CR TS28.552 Add Power utilization measurements | ZTE Corporation, China Mobile | 28.552 | 0240 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203335 | R16 CR TS28.552 Add Power utilization measurements | ZTE Corporation, China Mobile | 28.552 | 0240 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203216 | Rel-16 CR TS 28.552 update the descriptions of PRB related measurements | HuaWei Technologies Co., Ltd | 28.552 | 0241 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-203347 | Rel-16 CR TS 28.552 update the descriptions of PRB related measurements | HuaWei Technologies Co., Ltd | 28.552 | 0241 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-203302 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.552 | 0242 | - | Rel-16 | F | TEI16 | revised |
| S5-203336 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.552 | 0242 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203054 | Add KPIs on integrated uplink delay in NG-RAN | Intel Corporation (UK) Ltd | 28.554 | 0047 | - | Rel-16 | B | 5G\_SLICE\_ePA | merged |
| S5-203055 | Add KPIs on integrated downlink delay in NG-RAN | Intel Corporation (UK) Ltd,Ericsson | 28.554 | 0048 | - | Rel-16 | B | 5G\_SLICE\_ePA | merged |
| S5-203056 | Add KPIs on e2e UL delay for network slice | Intel Corporation (UK) Ltd | 28.554 | 0049 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203338 | Add KPIs on e2e UL delay for network slice | Intel Corporation (UK) Ltd | 28.554 | 0049 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203057 | Add KPIs on e2e DL delay for network slice | Intel Corporation (UK) Ltd | 28.554 | 0050 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203339 | Add KPIs on e2e DL delay for network slice | Intel Corporation (UK) Ltd | 28.554 | 0050 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203276 | Add KPIs for UL packet delay in NG-RAN | Ericsson LM | 28.554 | 0051 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203340 | Add KPIs for UL packet delay in NG-RAN | Ericsson LM, Intel | 28.554 | 0051 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203278 | Correction of Integrated downlink delay in RAN KPI | Ericsson LM | 28.554 | 0052 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-203341 | Correction of Integrated downlink delay in RAN KPI | Ericsson LM, Intel | 28.554 | 0052 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-203303 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.554 | 0053 | - | Rel-16 | F | TEI16 | revised |
| S5-203337 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.554 | 0053 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203144 | Rel-16 CR TS 28.622 Clarify systemDN usage for MnS producer profile | Huawei | 28.622 | 0081 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-203151 | Rel-16 CR 28.622 Add analytics control NRM fragment stage 2 | Nokia Corporation | 28.622 | 0082 | - | Rel-16 | B | eNRM | not pursued |
| S5-203236 | Rel-16 CR 28.622 Combine class diagrams of subscription and heartbeat NRM control fragments (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0083 | - | Rel-16 | F | eNRM | revised |
| S5-203425 | Rel-16 CR 28.622 Combine class diagrams of subscription and heartbeat NRM control fragments (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0083 | 1 | Rel-16 | F | eNRM | agreed |
| S5-203247 | Rel-16 CR 28.622 Update PM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0084 | - | Rel-16 | F | eNRM | revised |
| S5-203421 | Rel-16 CR 28.622 Update PM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0084 | 1 | Rel-16 | F | eNRM | agreed |
| S5-203250 | Rel-16 CR 28.622 Clarify usage of the VsDataContainer (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0085 | - | Rel-16 | F | eNRM | agreed |
| S5-203275 | Rel-16 CR 28.622 Update FM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0086 | - | Rel-16 | F | eNRM | revised |
| S5-203424 | Rel-16 CR 28.622 Update FM control fragment (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0086 | 1 | Rel-16 | F | eNRM | agreed |
| S5-203242 | Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment | Nokia, Nokia Shanghai Bell | 28.623 | 0046 | 1 | Rel-16 | B | eNRM | revised |
| S5-203423 | Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment | Nokia, Nokia Shanghai Bell | 28.623 | 0046 | 2 | Rel-16 | B | eNRM | agreed |
| S5-203076 | CR TS 28.623 Stage3 add the NRM fragement for SON management | Huawei, Orange, Intel | 28.623 | 0081 | - | Rel-16 | B | SON\_5G | revised |
| S5-203371 | CR TS 28.623 Stage3 add the NRM fragement for SON management | Huawei, Orange, Intel | 28.623 | 0081 | 1 | Rel-16 | B | SON\_5G | agreed |
| S5-203084 | Rel-16 CR TS 28.623 Update the definition of SNssai | ZTE Corporation | 28.623 | 0082 | - | Rel-16 | F | TEI16 | agreed |
| S5-203145 | Rel-16 CR TS 28.623 Clarify systemDN usage for MnS producer profile | Huawei | 28.623 | 0083 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-203187 | Rel-16 CR TS 28.623 Update ManagedElement YANG module | HUAWEI Technologies Japan K.K. | 28.623 | 0084 | - | Rel-16 | F | eNRM | agreed |
| S5-203199 | Update Nrm YANG | Ericsson Hungary Ltd | 28.623 | 0085 | - | Rel-16 | F | eNRM | agreed |
| S5-203200 | Rel-16 CR 28.623 Add analytics control NRM fragment stage 3 | Nokia Corporation | 28.623 | 0086 | - | Rel-16 | B | eNRM | not pursued |
| S5-203249 | Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0087 | - | Rel-16 | F | eNRM | revised |
| S5-203386 | Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0087 | 1 | Rel-16 | F | eNRM | revised |
| S5-203422 | Rel-16 CR 28.623 Update PM control fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0087 | 2 | Rel-16 | F | eNRM | agreed |
| S5-203251 | Rel-16 CR 28.623 Clarify usage of the VsDataContainer (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0088 | - | Rel-16 | F | eNRM | agreed |
| S5-203266 | Rel-16 CR 28.623 Add common data definitions (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0089 | - | Rel-16 | F | eNRM | agreed |
| S5-203272 | Rel-16 CR 28.623 Combine class diagrams of subscription and heartbeat NRM control fragments (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0090 | - | Rel-16 | F | eNRM | merged |
| S5-203389 | Rel-16 CR 28.623 Update FM control fragment (YANG definitions) | Ericsson | 28.623 | 0091 | - | Rel-16 | F | eNRM | agreed |
| S5-203458 | Rel-16 CR 28.623 Update PM control fragment (YANG definitions) | Ericsson | 28.623 | 0092 | - | Rel-16 | F | eNRM | agreed |
| S5-203460 | Rel-16 CR TS 28.623 Correct genericNRM definition in XML solution | CATT | 28.623 | 0093 | - | Rel-16 | F | eNRM | agreed |
| S5-203214 | Add 5G specification information | Huawei Technologies (Korea) | 32.103 | 0018 | - | Rel-15 | F | TEI15 | revised |
| S5-203413 | Add 5G specification information | Huawei Technologies (Korea) | 32.103 | 0018 | 1 | Rel-15 | F | TEI15 | agreed |
| S5-203310 | Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei,Nokia | 32.158 | 0012 | 2 | Rel-15 | F | REST\_SS | agreed |
| S5-203277 | Update YANG Guidelines | Ericsson Hungary Ltd | 32.160 | 0009 | - | Rel-16 | B | eNRM | agreed |
| S5-203048 | Rel-16 CR 32.255 Introduction of ATSSS triggers | Nokia, Nokia Shanghai Bell | 32.255 | 0207 | 2 | Rel-16 | B | ATSSS | not pursued |
| S5-203049 | Rel-16 CR 32.255 Introduction of MA PDU session information | Nokia, Nokia Shanghai Bell | 32.255 | 0218 | 2 | Rel-16 | B | ATSSS | agreed |
| S5-203010 | Rel-16 CR 32.255 Introduction of architecture reference for ATSSS Hybrid access | Nokia, Nokia Shanghai Bell | 32.255 | 0224 | - | Rel-16 | B | ATSSS | agreed |
| S5-203042 | Rel-16 CR 32.255 Introduction of flows for ATSSS Hybrid access NG-RAN and W-5GAN | Nokia, Nokia Shanghai Bell | 32.255 | 0225 | - | Rel-16 | B | ATSSS | agreed |
| S5-203043 | Rel-16 CR 32.255 Introduction of flows for ATSSS Hybrid access EPC and W-5GAN | Nokia, Nokia Shanghai Bell | 32.255 | 0226 | - | Rel-16 | B | ATSSS | agreed |
| S5-203044 | Rel-16 CR 32.255 Introduction of non-3GPP access information for MA PDU session | Nokia, Nokia Shanghai Bell | 32.255 | 0227 | - | Rel-16 | B | ATSSS | revised |
| S5-203504 | Rel-16 CR 32.255 Introduction of non-3GPP access information for MA PDU session | Nokia, Nokia Shanghai Bell | 32.255 | 0227 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-203045 | Rel-16 CR 32.255 Introduction of ATSSS triggers and CDR handling | Nokia, Nokia Shanghai Bell | 32.255 | 0228 | - | Rel-16 | B | ATSSS | agreed |
| S5-203046 | Rel-16 CR 32.255 Introduction of MA PDU information in detailed messages | Nokia, Nokia Shanghai Bell | 32.255 | 0229 | - | Rel-16 | B | ATSSS | revised |
| S5-203505 | Rel-16 CR 32.255 Introduction of MA PDU information in detailed messages | Nokia, Nokia Shanghai Bell | 32.255 | 0229 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-203097 | Rel-16 CR 32.255 Correct the PDU Address | Huawei | 32.255 | 0230 | - | Rel-16 | F | TEI16, 5GS\_Ph1-DCH | revised |
| S5-203480 | Rel-16 CR 32.255 Correct the PDU Address | Huawei | 32.255 | 0230 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-DCH | agreed |
| S5-203122 | Rel-16 CR 32.255 Add PDU address for IPv6 multi-homing | Huawei | 32.255 | 0231 | - | Rel-16 | F | TEI16 | not pursued |
| S5-203128 | Rel-16 CR 32.255 Add Trusted non-3GPP access related charging requirements | Huawei | 32.255 | 0232 | - | Rel-16 | B | 5WWC | revised |
| S5-203507 | Rel-16 CR 32.255 Add Trusted non-3GPP access related charging requirements | Huawei | 32.255 | 0232 | 1 | Rel-16 | B | 5WWC | agreed |
| S5-203137 | Rel-16 CR 32.255 Settings on Quota Management Indication for CHFCQM | Matrixx | 32.255 | 0233 | - | Rel-16 | B | CHFCQM | revised |
| S5-203484 | Rel-16 CR 32.255 Settings of Supported Features for CHFCQM | Matrixx | 32.255 | 0233 | 1 | Rel-16 | B | CHFCQM | agreed |
| S5-203223 | Rel-16 CR 32.255 Correcting of PDU session information in charging data response | Ericsson | 32.255 | 0234 | - | Rel-16 | F | TEI16 | revised |
| S5-203488 | Rel-16 CR 32.255 Correcting of PDU session information in charging data response | Ericsson | 32.255 | 0234 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203228 | Rel-16 CR 32.255 Correcting the use of home provided charging id | Ericsson | 32.255 | 0235 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-203008 | Correction of two SCUR Scenarios figure title and message description | China Telecomunication Corp. | 32.290 | 0117 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-203489 | Correction of two SCUR Scenarios figure title and message description | China Telecomunication Corp. | 32.290 | 0117 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203009 | Correction of NF Consumers AMF for Nchf\_ConvergedCharging\_Release | China Telecomunication Corp. | 32.290 | 0118 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-203491 | Correction of NF Consumers AMF for Nchf\_ConvergedCharging\_Release | China Telecomunication Corp. | 32.290 | 0118 | 1 | Rel-16 | F | 5GS\_Ph1\_AMFCH | agreed |
| S5-203037 | Rel-16 CR 32.290 Add CHF-Controlled Quota Management functionality | Matrixx | 32.290 | 0119 | - | Rel-16 | B | CHFCQM | revised |
| S5-203477 | Rel-16 CR 32.290 Add CHF-Controlled Quota Management functionality | Matrixx, Amdocs | 32.290 | 0119 | 1 | Rel-16 | B | CHFCQM | agreed |
| S5-203101 | Rel-16 CR 32.290 Add suspend and resume quota management mechanism | Huawei | 32.290 | 0120 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-203102 | Rel-16 CR 32.290 Add suspend and resume quota management flow | Huawei | 32.290 | 0121 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-203103 | Rel-16 CR 32.290 Add the parameters for CHFQM | Huawei | 32.290 | 0122 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-203229 | Rel-16 CR 32.290 Flows for switch to offline | Ericsson | 32.290 | 0123 | - | Rel-16 | C | CHFCQM | revised |
| S5-203492 | Rel-16 CR 32.290 Flows for switch to offline | Ericsson | 32.290 | 0123 | 1 | Rel-16 | B | CHFCQM | agreed |
| S5-203230 | Rel-16 CR 32.290 Adding CHFCQM as supported feature | Ericsson | 32.290 | 0124 | - | Rel-16 | C | CHFCQM | not pursued |
| S5-203306 | Add CHF-Controlled Quota Management functionality | Amdocs Software Systems Ltd | 32.290 | 0125 | - | Rel-16 | B | CHFCQM | merged |
| S5-203039 | Rel-16 CR 32.291 Additional setting on CHF-controlled Quota Management | Matrixx | 32.291 | 0230 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-203051 | Rel-16 CR 32.291 Introduce TS 29.500 and TS 29.501 full applicability | Nokia, Nokia Shanghai Bell | 32.291 | 0231 | - | Rel-16 | B | TEI16 | agreed |
| S5-203099 | Rel-16 CR 32.291 Correct the PDU Address | Huawei | 32.291 | 0232 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-203481 | Rel-16 CR 32.291 Correct the PDU Address | Huawei | 32.291 | 0232 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203100 | Rel-16 CR 32.291 Correct the Charging Data Response for NEF charging | Huawei | 32.291 | 0233 | - | Rel-16 | F | TEI16, NAPS-CH | revised |
| S5-203482 | Rel-16 CR 32.291 Correct the Charging Data Response for NEF charging | Huawei | 32.291 | 0233 | 1 | Rel-16 | F | NAPS-CH, TEI16 | agreed |
| S5-203104 | Rel-16 CR 32.291 Add the parameters for CHFQM | Huawei | 32.291 | 0234 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-203113 | Rel-16 CR 32.291 Add the NS performance and analytics charging attribute | Huawei | 32.291 | 0235 | - | Rel-16 | B | 5GS\_NSPACH | not pursued |
| S5-203123 | Rel-16 CR 32.291 Add PDU address for IPv6 multi-homing | Huawei | 32.291 | 0236 | - | Rel-16 | F | TEI16 | not pursued |
| S5-203126 | Rel-16 CR 32.291 Correct offline only charging service API due to maintainance | Huawei | 32.291 | 0237 | - | Rel-16 | F | TEI16 | revised |
| S5-203494 | Rel-16 CR 32.291 Correct offline only charging service API due to maintainance | Huawei | 32.291 | 0237 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203221 | Rel-15 CR 32.291 Correcting the definition of requested units as nullable | Ericsson | 32.291 | 0238 | - | Rel-15 | F | TEI16 | not pursued |
| S5-203222 | Rel-16 CR 32.291 Correcting the definition of requested units as nullable | Ericsson | 32.291 | 0239 | - | Rel-16 | A | TEI16 | not pursued |
| S5-203224 | Rel-16 CR 32.291 Correcting pduSessionInformation as optional | Ericsson | 32.291 | 0240 | - | Rel-16 | F | TEI16 | revised |
| S5-203487 | Rel-16 CR 32.291 Correcting pduSessionInformation as optional | Ericsson | 32.291 | 0240 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203307 | Add CHF-Controlled Quota Management data type | Amdocs Software Systems Ltd | 32.291 | 0241 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-203490 | Rel-16 CR 32.291 Adding CHFCQM as supported feature | Ericsson LM | 32.291 | 0242 | - | Rel-16 | B | CHFCQM | agreed |
| S5-203512 | Rel-15 CR 32.291 OpenAPI version update | Huawei | 32.291 | 0243 | - | Rel-15 | F | TEI15 | agreed |
| S5-203513 | Rel-16 CR 32.291 OpenAPI version update | Huawei | 32.291 | 0244 | - | Rel-16 | A | TEI15 | agreed |
| S5-203106 | Rel-16 CR 32.297 Add the Bnspa interface | Huawei | 32.297 | 0037 | - | Rel-16 | B | 5GS\_NSPACH | revised |
| S5-203493 | Rel-16 CR 32.297 Add the Bns interface | Huawei | 32.297 | 0037 | 1 | Rel-16 | B | 5GS\_NSPACH | agreed |
| S5-203098 | Rel-16 CR 32.298 Correct the PDU Address | Huawei | 32.298 | 0812 | - | Rel-16 | F | TEI16, 5GS\_Ph1-DCH | not pursued |
| S5-203112 | Rel-16 CR 32.298 Add the NS performance and analytics charging parameter | Huawei | 32.298 | 0813 | - | Rel-16 | B | 5GS\_NSPACH | not pursued |
| S5-203124 | Rel-16 CR 32.298 Add PDU address for IPv6 multi-homing | Huawei | 32.298 | 0814 | - | Rel-16 | F | TEI16 | not pursued |
| S5-203127 | Rel-16 CR 32.298 Add 5WWC charging information | Huawei | 32.298 | 0815 | - | Rel-16 | B | 5WWC | revised |
| S5-203506 | Rel-16 CR 32.298 Add 5WWC charging information | Huawei | 32.298 | 0815 | 1 | Rel-16 | B | 5WWC | agreed |
| S5-203225 | Rel-16 CR 32.298 orrecting backwards compatibility on CHF CDR | Ericsson | 32.298 | 0816 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | withdrawn |
| S5-203226 | Rel-16 CR 32.298 Correcting backwards compatibility on CHF CDR | Ericsson | 32.298 | 0817 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-203486 | Rel-16 CR 32.298 Correcting backwards compatibility on CHF CDR | Ericsson | 32.298 | 0817 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203227 | Rel-16 CR 32.298 Correcting RATtype in CHF CDR | Ericsson | 32.298 | 0818 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-203485 | Rel-16 CR 32.298 Correcting RATtype in CHF CDR | Ericsson | 32.298 | 0818 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-203022 | Rel-16 CR TS 32.422 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | 32.422 | 0322 | - | Rel-16 | F | TEI16 | revised |
| S5-203391 | Rel-16 CR TS 32.422 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | 32.422 | 0322 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203152 | Add MDT additional configuration information for MDT reporting in NR | Oy LM Ericsson AB | 32.422 | 0323 | - | Rel-16 | B | 5GMDT | agreed |
| S5-203167 | Rel-6 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0324 | - | Rel-6 | F | TEI6 | withdrawn |
| S5-203168 | Rel-7 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0325 | - | Rel-7 | F | TEI7 | withdrawn |
| S5-203169 | Rel-8 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0326 | - | Rel-8 | F | TEI8 | revised |
| S5-203393 | Rel-8 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0326 | 1 | Rel-8 | F | TEI8 | agreed |
| S5-203170 | Rel-9 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0327 | - | Rel-9 | A | TEI8 | revised |
| S5-203394 | Rel-9 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0327 | 1 | Rel-9 | A | TEI8 | agreed |
| S5-203171 | Rel-10 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0328 | - | Rel-10 | A | TEI8 | revised |
| S5-203395 | Rel-10 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0328 | 1 | Rel-10 | A | TEI8 | agreed |
| S5-203172 | Rel-11 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0329 | - | Rel-11 | A | TEI8 | revised |
| S5-203396 | Rel-11 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0329 | 1 | Rel-11 | A | TEI8 | agreed |
| S5-203173 | Rel-12 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0330 | - | Rel-12 | F | TEI12 | revised |
| S5-203397 | Rel-12 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0330 | 1 | Rel-12 | F | TEI12 | agreed |
| S5-203174 | Rel-13 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0331 | - | Rel-13 | A | TEI12 | revised |
| S5-203398 | Rel-13 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0331 | 1 | Rel-13 | A | TEI12 | agreed |
| S5-203175 | Rel-14 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0332 | - | Rel-14 | A | TEI12 | revised |
| S5-203399 | Rel-14 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0332 | 1 | Rel-14 | A | TEI12 | agreed |
| S5-203176 | Rel-15 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0333 | - | Rel-15 | A | TEI12 | revised |
| S5-203400 | Rel-15 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0333 | 1 | Rel-15 | A | TEI12 | agreed |
| S5-203177 | Rel-16 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0334 | - | Rel-16 | A | TEI12 | revised |
| S5-203401 | Rel-16 CR TS 32.422 clean up of the editor notes | Huawei | 32.422 | 0334 | 1 | Rel-16 | A | TEI12 | agreed |
| S5-203023 | Rel-16 CR TS 32.423 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | 32.423 | 0113 | - | Rel-16 | F | TEI16 | revised |
| S5-203392 | Rel-16 CR TS 32.423 Adding SINR measurement in M1 for Immediate MDT | China Telecommunications, Huawei | 32.423 | 0113 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-203207 | Update Trace Record Schema | Oy LM Ericsson AB | 32.423 | 0114 | - | Rel-16 | F | OAM\_RTT | merged |
| S5-203240 | Rel-16 CR 32.423 Correction of the Trace streaming format definitions | Nokia, Nokia Shanghai Bell | 32.423 | 0115 | - | Rel-16 | F | OAM\_RTT | revised |
| S5-203437 | Rel-16 CR 32.423 Correction of the Trace streaming format definitions | Nokia, Nokia Shanghai Bell,Ericsson | 32.423 | 0115 | 1 | Rel-16 | F | OAM\_RTT | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-203024 |  | LS reply to SA5 on GST attributes and on NG.116 publication and future co-operation. | GSMA | replied to | S5-203370 |
| S5-203025 |  | LS to SA5 on NGMN Continuous Delivery in Telecommunication Network Environments | NGMN | noted | (none) |
| S5-203026 |  | Ls reply to SA5 on Energy Efficiency for 5G | ETSI TC EE | noted | (none) |
| S5-203027 |  | Resubmitted LS to SA5 on making PSCELL ID available at the SGW of EPC | ETSI TC LI | postponed | (none) |
| S5-203028 |  | Ls reply to S5-197831 | ONAP | replied to | S5-203314 |
| S5-203029 |  | LS reply to S5-202300 | ONAP | replied to | S5-203313 |
| S5-203030 |  | Reply LS to SA5 on energy efficiency | R3-197745 | replied to | S5-203016 |
| S5-203031 |  | Resubmitted Ls to SA5 on removal of Management Based MDT Allowed IE for NR | R3-201437 | replied to | S5-203410 |
| S5-203032 |  | Reply LS to SA5 on the status update of the SON support for NR works | R3-202630 | noted | (none) |
| S5-203033 |  | Reply LS ccSA5 on support for eCall over NR | S2-2003308 | noted | (none) |
| S5-203034 |  | Reply LS ccSA5 on QoS Monitoring for URLLC | S2-2003468 | postponed | (none) |
| S5-203035 |  | Resubmitted Reply LS to SA5 on support for eCall over NR | SP-200287 | replied to | S5-203369 |
| S5-203036 |  | LS to SA5 on O-RAN – 3GPP Cooperation on Management Services | O-RAN | postponed | (none) |
| S5-203308 |  | LS from GSMA NEST ccSA5 for mapping with slices of different domains via Cross-domain OAM coordination | GSMA NEST | noted | (none) |
| S5-203309 |  | LS from GSMA NEST to SA5 for mapping with slices of different domains via Cross-domain OAM coordination | GSMA NEST | replied to | S5-203459 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-203016 | Reply LS on energy efficiency | RAN3 | RAN2, SA | S5-203030 |
| S5-203166 | LS to CT4 on MDT specific configuration parameters in NR | 3GPP CT4 | - |  |
| S5-203262 | LS to IETF for transport support for E2E network slice in 3gpp | IETF | - |  |
| S5-203313 | Reply LS to ONAP LS on S5-202300 | ONAP | - | S5-203029 |
| S5-203314 | Reply LS to ONAP LS on S5-197831 | ONAP | - | S5-203028 |
| S5-203360 | LS to SA2 on Network data analysis assisted energy saving | SA2 | SA |  |
| S5-203361 | LS on the clarification of handover and reselection parameters | RAN3 | - |  |
| S5-203369 | Reply LS to SA to Reply LS on support for eCall over NR | SA | SA WG2, RAN WG2, CT WG1, RAN WG5, SA WG1, SA WG4, TSG RAN, TSG CT | S5-203035 |
| S5-203370 | LS on SA5 Rel-17 work on SLA | GSMA 5GJA, 3GPP SA2, RAN3, IETF TEAS WG | 3GPP SA, SA1, SA6, RAN2, ETSI ISG ZSM | S5-203024 |
| S5-203410 | Reply LS to LS on removal of Management Based MDT Allowed IE for NR | RAN3 | RAN2 | S5-203031 |
| S5-203459 | Reply to:LS on mapping with slices of different domains via Cross-domain OAM coordination | GSMA NEST | ETSI ISG ZSM | S5-203309 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-203471 | New SID Study on charging aspects of Edge Computing | Intel Corporation (UK) Ltd | SID new |
| S5-203324 | New WID Enhancements of 5G performance measurements and KPIs | Intel, China Telecom, CMCC, Samsung | WID new |
| S5-203325 | new WID for management enhancement for eTenant for release 17 | Huawei | WID new |
| S5-203326 | New WID on autonomous network levels | China Mobile, Huawei, China Telecom, CATT | WID new |
| S5-203327 | New WID on Management data collection control and discovery | Nokia, Nokia Shanghai Bell | WID new |
| S5-203362 | New WID on Enhancement of Handover Optimization | Ericsson France S.A.S | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-203317 | 28.308 | 0.5.0 | draft TS 28.308 |
| S5-203318 | 28.405 | 1.4.0 | draft TS 28.405 |
| S5-203319 | 28.313 | 0.5.0 | draft TS 28.313 |
| S5-203320 | 28.807 | 1.2.0 | draft TR 28.807 |
| S5-203321 | 28.808 | 0.5.0 | draft TR 28.808 |
| S5-203322 | 28.813 | 0.1.0 | draft TR 28.813 |
| S5-203356 | 28.309 | 0.0.0 | TS skeleton for 28.309 |
| S5-203454 | 28.535 | 1.3.0 | draft TS 28.535 |
| S5-203455 | 28.536 | 0.4.0 | draft TS 28.536 |
| S5-203456 | 28.810 | 0.5.0 | draft TR 28.810 |
| S5-203457 | 28.809 | 0.4.0 | draft TR 28.809 |
| S5-203466 | 28.201 | 0.5.0 | draft TS 28.201 |
| S5-203469 | 28.202 | 0.2.0 | draft TS 28.202 |

## Annex F: List of participants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Employer Category Code | Organization Represented |
| Dr. | Al-kanani | Hassan | NEC Europe Ltd | ETSI | NEC Europe Ltd |
| Mr. | Andrianov | Anatoly | Nokia Germany | ETSI | Nokia Japan |
| Mrs. | Ayani | Zhulia | Ericsson LM | ETSI | Oy LM Ericsson AB |
| Mr. | Braam | Sjors | TNO | ETSI | KPN N.V. |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI | ETSI |
| Mr. | Cao | Xi | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation |
| Dr. | Cao | Xi | China Mobile Research Inst. | | China Mobile Com. Corporation |
| Mrs. | Carrion | Inma | CommScope Technologies AG | ETSI | CommScope Technologies AG |
| Ms. | Chen | Na | China Telecommunications | ETSI | China Telecomunication Corp. |
| Miss | CHEN | SHAN | Huawei Tech.(UK) Co., Ltd | ETSI | HiSilicon Technologies Co. Ltd |
| Miss | Chen | Xiumin | China Telecommunications | ETSI | China Telecommunications |
| Dr. | Choi | Taesang | ETRI |  | ETRI |
| Mr. | Chou | Joey | Intel Corporation (UK) Ltd | ETSI | Intel Corporation (UK) Ltd |
| Dr. | Cornily | Jean Michel | Orange | ETSI | Orange Spain |
| Mr. | Drijver | Floris | TNO | ETSI | TNO |
| Mr. | Elmdahl | Per | Ericsson France S.A.S | ETSI | Ericsson France S.A.S |
| Dr. | Featherstone | Walter | Samsung R&D Institute UK | ETSI | Samsung R&D Institute UK |
| Mr. | Gao | Xiao-Ming | Ericsson LM | ETSI | COMMUNICATIONS ALLIANCE LTD |
| Mrs. | Gardella | Maryse | Nokia France | ETSI | Nokia France |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | ETSI | Samsung Electronics France SA |
| Mr. | Glozman | Borislav | Amdocs Software Systems Ltd | ETSI | Amdocs Software Systems Ltd |
| Mr. | Görmer | Gerald | Matrixx | ETSI | Matrixx |
| Mr. | Groenendijk | Jan | Ericsson LM | ETSI | Ericsson LM |
| Miss | Guo | Chuyi | China Mobile Research Inst. | | China Mobile Com. Corporation |
| Miss | Guo | Shasha | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation |
| Mr. | Gupta | Nishant | Samsung Electronics Co., Ltd | TTA | Samsung Electronics GmbH |
| Mr. | Hassett | Brendan | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Technologies Sweden AB |
| Mr. | Hattori | Masaharu | KDDI Corporation | ARIB | KDDI Corporation |
| Mr. | He | Rui | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Telecommunication India |
| Mr. | Horvat | Attila | Huawei Technologies Sweden AB | ETSI | Huawei Technologies Sweden AB |
| Ms. | Hu | Yaxi | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation |
| Mr. | Jan | Onnegren | Ericsson LM | ETSI | Ericsson LM |
| Mr. | Jerbi | Walid | Deutsche Telekom AG | ETSI | Deutsche Telekom AG |
| Mr. | Jesske | Roland | Deutsche Telekom AG | ETSI | Deutsche Telekom AG |
| Miss | JIA | Xiaoqian | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | HuaWei Technologies Co., Ltd |
| Mr. | Ju | Manchang | ZTE Corporation | ETSI | ZTE Corporation |
| Mr. | Klotz | Michael | Deutsche Telekom AG | ETSI | Deutsche Telekom AG |
| Dr. | Kollar | Martin | Nokia Solutions & Networks (I) | TSDSI | Nokia Solutions & Networks (I) |
| Dr. | Lagha | Naceur | Amdocs Software Systems Ltd | ETSI | Amdocs Software Systems Ltd |
| Mr. | Lengyel | Balazs | Ericsson Hungary Ltd | ETSI | Ericsson Hungary Ltd |
| Mr. | Li | Gang | Nanjing Ericsson Panda Com Ltd | CCSA | Nanjing Ericsson Panda Com Ltd |
| Mr. | Li | Jianqiang | GDCNI | CCSA | GDCNI |
| Miss | Li | Li | HuaWei Technologies Co., Ltd | CCSA | Huawei Device Co., Ltd |
| Mr. | Li | Shitao | Huawei Tech.(UK) Co., Ltd | ETSI | HUAWEI TECH. GmbH |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | ETSI | Verizon Denmark |
| Mr. | Mansfield | Scott | Ericsson LM | ETSI | Ericsson LM |
| Mr. | McNamee | Alan | Openet Telecom | ETSI | Openet Telecom |
| Mr. | Nakano | Yusuke | KDDI Corporation | ARIB | KDDI Corporation |
| Mr. | Ogawa | Muneaki | Rakuten Mobile, Inc | ARIB | Rakuten Mobile, Inc |
| Mr. | Ordonez-Lucena | Jose | TELEFONICA S.A. | ETSI | TELEFONICA S.A. |
| Mr. | Petersen | Robert | Ericsson LM | ETSI | Ericsson LM |
| Miss | Ping | Jing | Nokia Germany | ETSI | Nokia Korea |
| Mr. | PINTO | BARUCH | Allot Ltd | ETSI | Allot Ltd |
| Mr. | Potter | Benjamin | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | TSDSI | Samsung Electronics Czech |
| Dr. | Samdanis | Konstantinos | Nokia | ATIS | Nokia Corporation |
| Dr. | Samdanis | Konstantinos | Nokia Germany | ETSI | Nokia Germany |
| Mr. | Scott | Mark | Ericsson LM | ETSI | Ericsson LM |
| Mrs. | Shi | xiaoli | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | HUAWEI TECHNOLOGIES Co. Ltd. |
| Ms. | Shi | Xiaonan | China Mobile Com. Corporation | CCSA | China Mobile Com. Corporation |
| Mr. | Shu | Min | CATT | ETSI | CATT |
| Mr. | Smith | David | AT&T | ATIS | AT&T |
| Mr. | Smith | David K. | AT&T GNS Belgium SPRL | ETSI | AT&T GNS Belgium SPRL |
| Mr. | Törnkvist | Robert | Ericsson LM | ETSI | Ericsson LM |
| Mr. | Tovinger | Thomas | Ericsson LM | ETSI | Ericsson LM |
| Ms. | Wang | Jingyun | China Unicom | CCSA | China Unicom |
| Dr. | Wang | Lilei | AsiaInfo Technologies Inc | ETSI | AsiaInfo Technologies Inc |
| Ms. | Weaver | Farni | T-Mobile USA | ETSI | T-Mobile USA |
| Mr. | wu | siyao | CMDI | CCSA | China Mobile Com. Corporation |
| Mr. | Xiang | Li | China Mobile Research Inst. | | China Mobile Com. Corporation |
| Mr. | XING | XIAOCHENG | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Technologies France |
| Mr. | Xu | Ruiyue | Huawei Tech.(UK) Co., Ltd | ETSI | HUAWEI Technologies Japan K.K. |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | ETSI | Intel Finland Oy |
| Mr. | Zhang | Jian | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI | Huawei Technologies Japan K.K. |
| Mr. | Zhang | Kai | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies R&D UK |
| Mr. | Zhao | Song | China Telecom Corporation Ltd. | CCSA | China Telecom Corporation Ltd. |
| Mr. | Zhu | Lei | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Tech.(UK) Co., Ltd |
| Mr. | Zhu | Weihong | ZTE Corporation | ETSI | ZTE Corporation |
| Ms. | Zou | Lan | Huawei Tech.(UK) Co., Ltd | ETSI | Huawei Technologies (Korea) |
| Mr. | Zvezdin | Pavel | NEC Corporation | ETSI | NEC Corporation |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#132e | 2020-08-17 | 2020-08-28 | Online |  | S5-132e |
| SA5#133e | 2020-10-12 | 2020-10-21 | Online |  | S5-133e |
| SA5#134e | 2020-11-16 | 2020-11-25 | Online |  | S5-134e |