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

**Meeting Report  
for  
TSG SA WG5  
meeting: 130e**

**e-meeting, Online, 20/04/2020 to 28/11/2019**

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## 1 Opening of the meeting

## 2 Approval of the agenda

**S5-202000 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 (previous 2 meetings)

**S5-202001 SA5#128 meeting report**

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

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

**S5-202002 SA5#129e meeting report**

*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

**S5-202013 SA5-130e E-Meeting Process**

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

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

**S5-202460 Post SA5#130e Email approval status**

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

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

### 5.2 Technical issues at SA5 level

### 5.3 Liaison statements at SA5 level

**S5-202023 Formation of a new ETSI ISG for the Fifth Generation Fixed Network (F5G)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ETSI ISG F5G*

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

**S5-202029 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 **postponed**.

**S5-202030 LS reply to SA5 on Technical Community Cooperation: Generic Network Management**

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

**Decision:** The document was **replied to in S5-202300**.

**S5-202087 Discussion paper on QoS requirements for OAM and Charging traffic on IAB**

*Type: discussion For: Endorsement  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-202457**.

**S5-202457 Discussion paper on QoS requirements for OAM and Charging traffic on IAB**

*Type: discussion For: Endorsement  
 Source: Intel Finland Oy*

(Replaces S5-202087)

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

**S5-202300 Reply LS to ONAP on liaison coordinator and VES API reference**

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

**Discussion:**

AT&T requested to have minuted the following:

“In an offline letter to the 3GPP Liaisons Coordinator entitled “Response to 3GPP LS S5-196792,” which was not an official input to SA5#130e, it was confirmed that: 1) Magnus Buhrgard has been appointed the role of “ONAP Technical Community Coordinator – Generic Network Management;” and 2) in the ONAP TSC Decision Log from 2020-Feb-06 it was recorded that the ONAP TSC approved the response to the 3 requests from SA5 as outlined in Slide 3 of their LS response.”

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

**S5-202458 LS to SA2 on QoS requirements for OAM traffic on IAB**

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

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

### 5.4 SA5 meeting calendar

### 5.5 Review of the Work Plan

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-202242 OAM&P SWG action list**

*Type: other For: (not specified)  
 Source: Huawei Technologies (Korea)*

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

**S5-202243 SA5#130e\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

*Type: agenda For: (not specified)  
 Source: Huawei Technologies (Korea)*

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

**S5-202244 SA5#130e OAM Exec Report**

*Type: report For: (not specified)  
 Source: Huawei Technologies (Korea)*

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

**S5-202348 SA5#130e OAM Chair notes and conclusions**

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

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

### 6.2 New OAM&P Work Item proposals

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

**S5-202004 Rel-16 CR TS 28.532 Void meaningless clause**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0107 Cat: F (Rel-16)  
  
 Source: AT&T, Orange*

**Decision:** The document was **revised to S5-202351**.

**S5-202351 Rel-16 CR TS 28.532 Void meaningless clause**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0107 rev 1 Cat: F (Rel-16)  
  
 Source: AT&T, Orange*

(Replaces S5-202004)

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

**S5-202005 Rel 16 CR TS 28.554 Fixing Equations**

*Type: CR For: Agreement  
 28.554 v16.4.0 CR-0040 Cat: F (Rel-16)  
  
 Source: Samsung Electronics France SA*

**Abstract:**

Fixing Equations

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

**S5-202019 Resubmitted LS to SA5 on EN-DC related MDT configuration details**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1916579*

**Decision:** The document was **replied to in S5-202052**.

**S5-202025 LS to SA5 on EN-DC related MDT configuration details**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1916579*

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

**S5-202031 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 **postponed**.

**S5-202032 LS ccSA5 on Generic Slice Template with Public Safety Feedback**

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

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

**S5-202049 Rel-16 CR 28.532 Add summary CM notification to the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0100 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201385)

**Decision:** The document was **revised to S5-202356**.

**S5-202356 Rel-16 CR 28.532 Add summary CM notification to the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0100 rev 3 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202049)

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

**S5-202050 Rel-16 CR 28.532 Remove subscribe and unsubscribe operation from ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0102 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201390)

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

**S5-202051 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 **withdrawn**.

**S5-202052 Reply LS to LS on EN-DC related MDT configuration details**

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

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

**S5-202088 Rel-15 CR 28.550 Add service components for configurable performance measurement control**

*Type: CR For: Approval  
 28.550 v15.4.0 CR-0049 Cat: F (Rel-15)  
  
 Source: Intel Finland Oy*

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

**S5-202089 Rel-16 CR 28.550 Add service components for configurable performance measurement control**

*Type: CR For: Approval  
 28.550 v16.4.0 CR-0050 Cat: A (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202113 Replace Management based MDT Allowed IE with Management based MDT PLMN List IE for MDT user consent handling in NR**

*Type: CR For: Agreement  
 32.422 v16.1.0 CR-0321 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-202114 Add missing notification attributes for Matching-Criteria-Attributes**

*Type: CR For: Agreement  
 28.532 v15.5.0 CR-0109 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

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

**S5-202115 Add missing notification attributes for Matching-Criteria-Attributes**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0110 Cat: A (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-202116 Rel-16 CR TS 28.541 Correction of reference**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0263 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-202352**.

**S5-202352 Rel-16 CR TS 28.541 Correction of reference**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0263 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-202116)

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

**S5-202117 Rel-16 CR 28.541 Update NRM attribute definitions**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0264 Cat: F (Rel-16)  
  
 Source: CATT, Ericsson*

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

**S5-202118 Rel-16 CR 28.658 Update NRM attribute definitions**

*Type: CR For: Approval  
 28.658 v16.2.0 CR-0052 Cat: F (Rel-16)  
  
 Source: CATT, Ericsson*

**Decision:** The document was **revised to S5-202353**.

**S5-202353 Rel-16 CR 28.658 Update NRM attribute definitions**

*Type: CR For: Approval  
 28.658 v16.2.0 CR-0052 rev 1 Cat: F (Rel-16)  
  
 Source: CATT, Ericsson*

(Replaces S5-202118)

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

**S5-202122 Rel-6 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v6.6.0 CR-0102 Cat: F (Rel-6)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202123 Rel-7 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v7.4.0 CR-0103 Cat: A (Rel-7)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202124 Rel-8 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v8.5.0 CR-0104 Cat: A (Rel-8)  
  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-202350**.

**S5-202350 Rel-8 CR TS 32.423 clean up editor notes**

*Type: CR For: -  
 32.423 v8.5.0 CR-0104 rev 1 Cat: F (Rel-8)  
  
 Source: Huawei Technologies (Korea)*

(Replaces S5-202124)

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

**S5-202125 Rel-9 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v9.7.0 CR-0105 Cat: A (Rel-9)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202126 Rel-10 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v10.9.0 CR-0106 Cat: A (Rel-10)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202127 Rel-11 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v11.8.0 CR-0107 Cat: A (Rel-11)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202128 Rel-12 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v12.1.0 CR-0108 Cat: A (Rel-12)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202129 Rel-13 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v13.0.0 CR-0109 Cat: A (Rel-13)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202130 Rel-14 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v14.0.0 CR-0110 Cat: A (Rel-14)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202131 Rel-15 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v15.2.0 CR-0111 Cat: A (Rel-15)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202132 Rel-16 CR TS 32.423 clean up editor notes**

*Type: CR For: (not specified)  
 32.423 v16.0.0 CR-0112 Cat: A (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-202145 Rel-16 CR TS 28.531 Fix inconsistencies**

*Type: CR For: Agreement  
 28.531 v16.5.0 CR-0043 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202146 Rel-16 CR TS 28.530 Fix inconsistencies**

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

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

**S5-202147 Rel-16 CR 28.550 Correct Typos of Reference**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0051 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202148 Rel-16 CR TS 28.531 fix Network Slice subnet termination use case**

*Type: CR For: Agreement  
 28.531 v16.5.0 CR-0044 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202358**.

**S5-202358 Rel-16 CR TS 28.531 fix Network Slice subnet termination use case**

*Type: CR For: Agreement  
 28.531 v16.5.0 CR-0044 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202148)

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

**S5-202149 Rel-16 CR TS 28.531 fix NSI activation and deactivation use case**

*Type: CR For: Agreement  
 28.531 v16.5.0 CR-0045 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202359**.

**S5-202359 Rel-16 CR TS 28.531 fix NSI activation and deactivation use case**

*Type: CR For: Agreement  
 28.531 v16.5.0 CR-0045 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202149)

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

**S5-202150 Rel-15 CR TS 28.531 fix Network Slice subnet termination use case**

*Type: CR For: Agreement  
 28.531 v15.5.0 CR-0046 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202360**.

**S5-202360 Rel-15 CR TS 28.531 fix Network Slice subnet termination use case**

*Type: CR For: Agreement  
 28.531 v15.5.0 CR-0046 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-202150)

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

**S5-202225 Rel-16 CR 28.532 Add missing callbacks for notifications to ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0111 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202226 Discussion on general CRUD operation for different management purposes**

*Type: discussion For: Endorsement  
 28.532 v..  
 Source: Huawei*

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

**S5-202227 Rel-16 CR TS 28.532 Update the generic provisioning MnS to support different management purposes**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0112 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202228 Rel-16 CR TS 28.550 Add description for configurable PM control MnS**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0053 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202229 Rel-16 CR TS 28.5450 Add description for configurable FM control MnS**

*Type: CR For: Agreement  
 28.545 v15.1.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202230 Rel-16 CR TS 28.532 Remove attribute referenceObjectInstance which is not supported by solution set**

*Type: CR For: Agreement  
 28.532 v16.3.0 CR-0113 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202231 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 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202361**.

**S5-202361 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 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202231)

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

**S5-202232 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 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202362**.

**S5-202362 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 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202232)

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

**S5-202233 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 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202363**.

**S5-202363 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 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-202233)

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

**S5-202234 Rel-16 CR TS 32.158 Add the missing definition for LDN-first-part**

*Type: CR For: Agreement  
 32.158 v15.4.0 CR-0013 Cat: A (Rel-16)  
  
 Source: Huawei*

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

**S5-202251 Rel-16 CR 28.532 Remove data object from response types in the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0116 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202357**.

**S5-202357 Rel-16 CR 28.532 Remove data object from response types in the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0116 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202251)

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

**S5-202255 Discussion paper on release planning of GST attributes**

*Type: discussion For: Discussion  
 28.541 v..  
 Source: Ericsson LM*

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

**S5-202256 CR TS 28.541 Align ServiceProfile with GST Option 1**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0276 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202257 CR TS 28.541 Align ServiceProfile with GST Option 2**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0277 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202278 TD proposal for cleanup network slice related definitions**

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

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

**S5-202279 Fix Network Slice related definitions in OAM space**

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

**Decision:** The document was **revised to S5-202366**.

**S5-202366 Fix Network Slice related definitions in OAM space**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0025 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Intel, Huawei*

(Replaces S5-202279)

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

**S5-202280 Cleanup network slice instance**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0026 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202295 Rel-16 CR 28.622 Fix inconsistent formatting**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0080 Cat: D (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202355**.

**S5-202355 Rel-16 CR 28.622 Fix inconsistent formatting**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0080 rev 1 Cat: D (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202295)

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

**S5-202298 Rel-16 CR 28.623 Fix inconsistent formatting**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0080 Cat: D (Rel-16)  
  
 Source: Nokia*

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

**S5-202299 Correct Typos of Reference**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0054 Cat: F (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

**Decision:** The document was **revised to S5-202354**.

**S5-202354 Correct Typos of Reference**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0054 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-202299)

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

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

#### 6.4.1 Management of QoE measurement collection

**S5-202010 pCR TS 28.406 Add definitions of terms, symbols and abbreviations**

*Type: pCR For: (not specified)  
 28.406 v0.2.0  
 Source: Nanjing Ericsson Panda Com Ltd*

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

**S5-202011 pCR TS 28.406 Add QoE record contents**

*Type: pCR For: (not specified)  
 28.406 v0.2.0  
 Source: Nanjing Ericsson Panda Com Ltd*

**Decision:** The document was **revised to S5-202324**.

**S5-202324 pCR TS 28.406 Add QoE record contents**

*Type: pCR For: -  
 28.406 v0.2.0  
 Source: Nanjing Ericsson Panda Com Ltd*

(Replaces S5-202011)

**Decision:** The document was **revised to S5-202406**.

**S5-202406 pCR TS 28.406 Add QoE record contents**

*Type: pCR For: -  
 28.406 v0.2.0  
 Source: Nanjing Ericsson Panda Com Ltd*

(Replaces S5-202324)

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

**S5-202020 Resubmitted LS to SA5 on Reply on QoE Measurement Collection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-200241*

**Decision:** The document was **replied to in S5-202304**.

**S5-202304 Reply to: LS to SA5 on Reply on QoE Measurement Collection**

*Type: LS out For: approval  
 to SA4,CT1,RAN2,RAN3  
 Source: Ericsson*

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

**S5-202021 Resubmitted Reply LS to SA5 on QoE Measurement Collection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1916328*

**Decision:** The document was **replied to in S5-202305**.

**S5-202305 Reply to: Resubmitted Reply LS to SA5 on QoE Measurement Collection**

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

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

**S5-202112 Add QoE Specifications**

*Type: CR For: Agreement  
 32.103 v15.0.0 CR-0017 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-202459**.

**S5-202459 Add QoE Specifications**

*Type: CR For: Agreement  
 32.103 v15.0.0 CR-0017 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-202112)

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

**S5-202220 CR nR16 32.101-f00 Introduction of QMC**

*Type: CR For: (not specified)  
 32.101 v15.0.0 CR-0070 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202301**.

**S5-202301 CR nR16 32.101-f00 Introduction of QMC**

*Type: CR For: -  
 32.101 v15.0.0 CR-0070 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202220)

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

**S5-202221 pCR R16 28308-030 QMC operations**

*Type: pCR For: (not specified)  
 28.308 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202302**.

**S5-202302 pCR R16 28308-030 QMC operations**

*Type: pCR For: -  
 28.308 v0.3.0  
 Source: Ericsson*

(Replaces S5-202221)

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

**S5-202222 pCR R16 28.405-120 Update of R16**

*Type: pCR For: (not specified)  
 28.405 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202453**.

**S5-202453 pCR R16 28.405-120 Update of R16**

*Type: pCR For: -  
 28.405 v1.2.0  
 Source: Ericsson*

(Replaces S5-202222)

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

**S5-202223 Presentation of Specification to TSG: TS 28.307, Version 1.0.0**

*Type: TS or TR cover For: (not specified)  
 28.307 v..  
 Source: Ericsson*

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

**S5-202343 draft TS 28.308**

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

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

**S5-202344 draft TS 28.406**

*Type: draft TS For: Approval  
 28.406 v0.3.0  
 Source: Ericsson*

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

**S5-202345 draft TS 28.405**

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

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

#### 6.4.2 Energy Efficiency of 5G

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

**S5-202003 New measuremenst for average call duration**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0201 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

**Decision:** The document was **revised to S5-202317**.

**S5-202317 New measuremenst for average call duration**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0201 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-202003)

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

**S5-202006 Rel 15 CR TS 28.554 Fixing Equations**

*Type: CR For: Agreement  
 28.554 v15.4.0 CR-0041 Cat: F (Rel-15)  
  
 Source: Samsung Electronics France SA*

**Abstract:**

Fixing Equations

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

**S5-202008 Rel 15 CR Adding Per Slice N3 Measurements**

*Type: CR For: Agreement  
 28.552 v15.5.0 CR-0202 Cat: F (Rel-15)  
  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-202455**.

**S5-202455 Rel 15 CR Adding Per Slice N3 Measurements**

*Type: CR For: Agreement  
 28.552 v15.5.0 CR-0202 rev 1 Cat: F (Rel-15)  
  
 Source: Samsung Electronics France SA*

(Replaces S5-202008)

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

**S5-202009 Rel 16 CR Adding Per Slice N3 Measurements**

*Type: CR For: (not specified)  
 28.552 v16.5.0 CR-0203 Cat: A (Rel-16)  
  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-202456**.

**S5-202456 Rel 16 CR Adding Per Slice N3 Measurements**

*Type: CR For: -  
 28.552 v16.5.0 CR-0203 rev 1 Cat: A (Rel-16)  
  
 Source: Samsung Electronics France SA*

(Replaces S5-202009)

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

**S5-202012 LS to CT4 on SNSSAI support in N4 Session Establishment**

*Type: LS out For: Agreement  
 to CT4, cc SA2  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-202308**.

**S5-202308 LS to CT4 on SNSSAI support in N4 Session Establishment**

*Type: LS out For: Agreement  
 to CT4, cc SA2  
 Source: Samsung Electronics France SA*

(Replaces S5-202012)

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

**S5-202014 Corrections of Number of Active UEs measurements**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0204 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202015 Correction of Average delay UL on over-the-air interface measurement**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0205 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-202313**.

**S5-202016 Add measurement Average RLC packet delay in the UL**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0206 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-202311**.

**S5-202311 Add measurement Average RLC packet delay in the UL**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0206 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-202016)

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

**S5-202017 Add measurement Average PDCP re-ordering delay in the UL**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0207 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-202312**.

**S5-202312 Add measurement Average PDCP re-ordering delay in the UL**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0207 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-202017)

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

**S5-202018 Add Number of stored inactive UE contexts measurements**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0208 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202028 Reply LS to SA5 on QoS monitoring for URLLC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-201372*

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

**S5-202035 Add KPI for UL packet delay in NG-RAN**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0042 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202036 Correction of Integrated downlink delay in RAN KPI**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0043 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202037 Correction of Downlink latency in gNB-DU KPI**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0044 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-202314**.

**S5-202314 Correction of Downlink latency in gNB-DU KPI**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0044 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-202037)

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

**S5-202038 Removal of the KPI named KPI categories**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0045 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202045 Rel-16 CR TS 28.552 Update the measurements related to the delay of DL air-interface**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202318**.

**S5-202318 Rel-16 CR TS 28.552 Update the measurements related to the delay of DL air-interface**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0211 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202045)

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

**S5-202046 Rel-16 CR TS 28.552 Update the precision of packet delay**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0212 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202313**.

**S5-202313 Rel-16 CR TS 28.552 Update the precision of packet delay**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0212 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei,Ericsson*

(Replaces S5-202046)

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

**S5-202047 Rel-16 CR TS 28.552 Move the network slice related measurements to clause 6**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202048 Rel-16 CR TS 28.552 add the referrence to slice related measurements in clause 6**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0214 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202090 Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0191 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd, ETRI*

(Replaces S5-201182)

**Decision:** The document was **revised to S5-202309**.

**S5-202309 Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0191 rev 3 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd, ETRI*

(Replaces S5-202090)

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

**S5-202091 Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0192 rev 2 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd, ETRI*

(Replaces S5-201183)

**Decision:** The document was **revised to S5-202310**.

**S5-202310 Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0192 rev 3 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd, ETRI*

(Replaces S5-202091)

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

**S5-202102 Update of KPI template**

*Type: CR For: Approval  
 28.554 v16.4.0 CR-0046 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-202104 Discussion paper around KPI Template**

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

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

**S5-202105 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 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202106 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 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202107 Discussion paper around UPF measurements**

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

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

**S5-202108 Rel-16 CR 28.552 Add measurements on DL packet delay in NG-RAN for Network Slice**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0217 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202109 Rel-16 CR 28.552 Add measurements on UL packet delay in NG-RAN for Network Slice**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0218 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202208 R16 CR TS28.552 Add DSS PRB usage measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0221 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

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

**S5-202210 R16 CR TS28.552 Add Initial BWP PRB usage measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0222 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

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

**S5-202211 R16 CR TS28.552 Modify Distribution PRB usage measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0223 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

**Decision:** The document was **revised to S5-202316**.

**S5-202316 R16 CR TS28.552 Modify Distribution PRB usage measurements**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0223 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE Corporation, China Telecom*

(Replaces S5-202211)

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

**S5-202213 Rel-16 CR TS 28.552 Add use case and defintion of the maximum round-trip packet delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0224 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202214 Rel-16 CR TS 28.552 Add use case and definition of the maximum delay of DL air-interface**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0225 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202275 CR TS 28.552 editorial correction of TS 28.552**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0226 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202307**.

**S5-202307 CR TS 28.552 editorial correction of TS 28.552**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0226 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202275)

**Decision:** The document was **revised to S5-202319**.

**S5-202319 CR TS 28.552 editorial correction of TS 28.552**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0226 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202307)

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

**S5-202276 CR TS 28.552 update the definition of UE throughput related measurements**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0227 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202315**.

**S5-202315 CR TS 28.552 update the definition of UE throughput related measurements**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0227 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202276)

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

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

**S5-202151 Revised WID on Discovery of management services in 5G**

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

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

**S5-202152 Rel-16 CR TS 28.533 Clarify the MnS producer profile**

*Type: CR For: Agreement  
 28.533 v16.3.0 CR-0066 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202153 Rel-16 CR TS 28.622 Clarify systemDN usage for MnS producer profile notification**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0073 Cat: B (Rel-16)  
  
 Source: Huawei*

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

#### 6.4.5 NRM enhancements

**S5-202024 LS reply ccSA5 on initiation of a new work item Y.IMT2020-NSC “IMT-2020 network slice configuration**

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

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

**S5-202033 Discussion on restructure RRMPolicyRatio**

*Type: discussion For: Endorsement  
 28.541 v..  
 Source: Huawei, Ericsson,CATT,China Telecom, China Mobile*

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

**S5-202034 Rel-16 CR TS 28.541 Update on RRMPolicyRatio**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0259 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson,CATT,China Telecom, China Mobile*

**Decision:** The document was **revised to S5-202368**.

**S5-202368 Rel-16 CR TS 28.541 Update on RRMPolicyRatio**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0259 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson,CATT,China Telecom, China Mobile*

(Replaces S5-202034)

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

**S5-202086 YANG-Push Notifications**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0108 Cat: B (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-202101 Rel-16 CR 28.541 Add IOC for control of QoS monitoring per QoS flow per UE**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0261 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202103 Rel-16 CR 28.541 Add IOC for control of GTP-U path QoS monitoring**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0262 Cat: B (Rel-16)  
  
 Source: Intel Finland Oy*

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

**S5-202182 Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment**

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

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

**S5-202183 Rel-16 CR TS 28.541 Add NRPhysicalCellDU and NRCarrier NRM to support Multi-SSBs and network sharing**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0266 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-202184 Rel-16 CR 28.623 Correct OpenAPI definition for notificationTypes**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0047 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202375**.

**S5-202375 Rel-16 CR 28.623 Correct OpenAPI definition for notificationTypes**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0047 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202184)

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

**S5-202190 Discussion paper clarification on network slice related identifiers**

*Type: discussion For: Discussion  
 Source: Huawei*

**Decision:** The document was **revised to S5-202364**.

**S5-202364 Discussion paper clarification on network slice related identifiers**

*Type: discussion For: Discussion  
 Source: Huawei, Nokia, Nokia Shanghai Bell*

(Replaces S5-202190)

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

**S5-202191 Rel-16 CR 28.541 Clarification on network slice related identifiers**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0269 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202365**.

**S5-202365 Rel-16 CR 28.541 Clarification on network slice related identifiers**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0269 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell*

(Replaces S5-202191)

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

**S5-202192 Rel-16 CR 28.530 Clarification on network slice related identifiers**

*Type: CR For: Approval  
 28.530 v16.1.0 CR-0024 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202366**.

**S5-202193 Rel-16 CR 28.531 Clarification on network slice related identifiers**

*Type: CR For: Approval  
 28.531 v16.5.0 CR-0047 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202367**.

**S5-202367 Rel-16 CR 28.531 Clarification on network slice related identifiers**

*Type: CR For: Approval  
 28.531 v16.5.0 CR-0047 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202193)

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

**S5-202194 Rel-16 CR 28.541 Stage 3 update for clarification on network slice related identifiers**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0270 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202195 LS to SA2 on network slice identifiers**

*Type: LS out For: Approval  
 to SA2, cc RAN3,RAN2,SA1,SA  
 Source: Huawei*

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

**S5-202201 Discussion paper on non-binary description of neighbor cell relations**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0271 Cat: B (Rel-16)  
  
 Source: Nokia Germany*

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

**S5-202203 Rel-16 CR TS 28.622 Add TOP\_ as parent class**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0074 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-202376**.

**S5-202376 Rel-16 CR TS 28.622 Add TOP\_ as parent class**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0074 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S5-202203)

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

**S5-202204 Rel-16 CR 28.541 Extend description of NRCellRelation**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0272 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202205 Discussion paper on non-binary description of neighbor cell relations**

*Type: discussion For: Agreement  
 28.541 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202206 Rel-16 CR TS 28.541 Add TOP\_ as parent class**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0273 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-202207 Rel-16 CR TS 28.541 Correct sNSSAI definition in XML solution**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0274 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-202380**.

**S5-202380 Rel-16 CR TS 28.541 Correct sNSSAI definition in XML solution**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0274 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

(Replaces S5-202207)

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

**S5-202212 Update YANG Guidelines**

*Type: CR For: Approval  
 32.160 v16.2.0 CR-0008 Cat: B (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Change from TDOC number to CR number in the YANG modules revision/reference statement.

Add a new rule about YANG contact statement.

**Decision:** The document was **revised to S5-202381**.

**S5-202381 Update YANG Guidelines**

*Type: CR For: Approval  
 32.160 v16.2.0 CR-0008 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-202212)

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

**S5-202219 CR TS 28.622 Update concept of ME and MF**

*Type: CR For: (not specified)  
 28.622 v16.3.0 CR-0075 Cat: F (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-202377**.

**S5-202377 CR TS 28.622 Update concept of ME and MF**

*Type: CR For: -  
 28.622 v16.3.0 CR-0075 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

(Replaces S5-202219)

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

**S5-202235 Rel-16 CR TS 28.622 Update the attribute priorityLabel for several IOCs**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0076 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202236 Rel-16 CR TS 28.541 Clarify the NR NRM used for different deployment scenarios**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0275 Cat: F (Rel-16)  
  
 Source: Huawei,China Mobile*

**Decision:** The document was **revised to S5-202379**.

**S5-202379 Rel-16 CR TS 28.541 Clarify the NR NRM used for different deployment scenarios**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0275 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei,China Mobile*

(Replaces S5-202236)

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

**S5-202250 Discussion on the NRM of MF contains other MF**

*Type: discussion For: Discussion  
 Source: China Mobile E-Commerce Co., Huawei*

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

**S5-202253 Rel-16 CR TS 28.622 Updated MF description with nested clarification**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0077 Cat: F (Rel-16)  
  
 Source: China Mobile E-Commerce Co., Huawei*

**Decision:** The document was **revised to S5-202378**.

**S5-202378 Rel-16 CR TS 28.622 Updated MF description with nested clarification**

*Type: CR For: Agreement  
 28.622 v16.3.0 CR-0077 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile E-Commerce Co., Huawei*

(Replaces S5-202253)

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

**S5-202262 Rel-16 CR 28.541 Add missing notification types to the definition of common notifications**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0278 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202269 Rel-16 CR TS 28.541 Update on NRCellDU**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0279 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202371**.

**S5-202371 Rel-16 CR TS 28.541 Update on NRCellDU**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0279 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202269)

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

**S5-202270 Rel-15 CR TS 28.541 Update on NRCellDU**

*Type: CR For: Agreement  
 28.541 v15.5.0 CR-0280 Cat: A (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202372**.

**S5-202372 Rel-15 CR TS 28.541 Update on NRCellDU**

*Type: CR For: Agreement  
 28.541 v15.5.0 CR-0280 rev 1 Cat: A (Rel-15)  
  
 Source: Huawei*

(Replaces S5-202270)

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

**S5-202271 Rel-16 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0281 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202373**.

**S5-202373 Rel-16 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0281 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202271)

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

**S5-202272 Rel-15 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram**

*Type: CR For: Agreement  
 28.541 v15.5.0 CR-0282 Cat: A (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202374**.

**S5-202374 Rel-15 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram**

*Type: CR For: Agreement  
 28.541 v15.5.0 CR-0282 rev 1 Cat: A (Rel-15)  
  
 Source: Huawei*

(Replaces S5-202272)

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

**S5-202281 TD proposal of NRM change to support RIM**

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

**Decision:** The document was **revised to S5-202369**.

**S5-202369 TD proposal of NRM change to support RIM**

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

(Replaces S5-202281)

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

**S5-202282 new NRM fragment to support RIM stage 2**

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

**Decision:** The document was **revised to S5-202370**.

**S5-202370 new NRM fragment to support RIM stage 2**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0283 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202282)

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

**S5-202283 new NRM fragment to support RIM stage 3**

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

**Decision:** The document was **revised to S5-202342**.

**S5-202342 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*

(Replaces S5-202283)

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

**S5-202297 Update stage3 on the RRMpolicyRatio**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0285 Cat: F (Rel-16)  
  
 Source: Huawei,Ericsson, CATT, China Telecom, China Mobile*

**Abstract:**

Stage3 of S5-202034

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

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

**S5-202292 Rel-16 CR 28.622 Add trace control NRM fragment stage 2**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0078 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202320**.

**S5-202320 Rel-16 CR 28.622 Add trace control NRM fragment stage 2**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0078 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202292)

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

**S5-202293 Rel-16 CR 28.622 Add trace control NRM fragment stage 3**

*Type: CR For: Approval  
 28.622 v16.3.0 CR-0079 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202296**.

**S5-202296 Rel-16 CR 28.623 Add trace control NRM fragment stage 3**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0079 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202293)

**Decision:** The document was **revised to S5-202321**.

**S5-202321 Rel-16 CR 28.623 Add trace control NRM fragment stage 3**

*Type: CR For: Approval  
 28.623 v16.3.2 CR-0079 rev 2 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202296)

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

#### 6.4.7 Closed loop SLS Assurance

**S5-202154 Discussion paper on CSI clarification in close loop control context**

*Type: discussion For: Endorsement  
 Source: Huawei*

**Decision:** The document was **revised to S5-202384**.

**S5-202384 Discussion paper on CSI clarification in close loop control context**

*Type: discussion For: Endorsement  
 Source: Huawei*

(Replaces S5-202154)

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

**S5-202202 Rel-16 pCR TS 28.535 update of use case in subclause 6.1.1**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: HuaWei Technologies Co., Ltd*

**Decision:** The document was **revised to S5-202395**.

**S5-202395 Rel-16 pCR TS 28.535 update of use case in subclause 6.1.1**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: HuaWei Technologies Co., Ltd*

(Replaces S5-202202)

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

**S5-202218 Update Clause 4.2 Management control loops**

*Type: pCR For: (not specified)  
 28.535 v1.1.0  
 Source: Huawei Technologies (Korea)*

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

**S5-202224 Update clause 6.2 requirements**

*Type: pCR For: (not specified)  
 28.535 v1.1.0  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-202382**.

**S5-202382 Update clause 6.2 requirements**

*Type: pCR For: -  
 28.535 v1.1.0  
 Source: Huawei Technologies (Korea)*

(Replaces S5-202224)

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

**S5-202237 pCR TS 28.535 Move Annex A Management control loop in different layers to TS 28.536**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: Huawei,China Mobile*

**Decision:** The document was **revised to S5-202340**.

**S5-202340 pCR TS 28.535 Move Annex A Management control loop in different layers to TS 28.536**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: Huawei,China Mobile*

(Replaces S5-202237)

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

**S5-202238 pCR TS 28.536 Move and update Annex A Management control loop in different later from TS 28.535**

*Type: pCR For: Approval  
 28.536 v0.2.0  
 Source: Huawei,China Mobile*

**Decision:** The document was **revised to S5-202341**.

**S5-202341 pCR TS 28.536 Move and update Annex A Management control loop in different later from TS 28.535**

*Type: pCR For: Approval  
 28.536 v0.2.0  
 Source: Huawei,China Mobile*

(Replaces S5-202238)

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

**S5-202247 TS28.535 pCR clarify service load in use case fro interaction with core network for service assurance**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: China Mobile E-Commerce Co., Huawei*

**Decision:** The document was **revised to S5-202383**.

**S5-202383 TS28.535 pCR clarify service load in use case fro interaction with core network for service assurance**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: China Mobile E-Commerce Co., Huawei*

(Replaces S5-202247)

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

**S5-202248 TS 28.535 pCR Add business level use case and requirements**

*Type: pCR For: Approval  
 28.535 v1.1.0  
 Source: China Mobile E-Commerce Co., Huawei*

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

**S5-202258 pCR TS 28.536 Communication service assurance stage 2 solution**

*Type: pCR For: Agreement  
 28.536 v0.2.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-202399**.

**S5-202399 pCR TS 28.536 Communication service assurance stage 2 solution**

*Type: pCR For: Agreement  
 28.536 v0.2.0  
 Source: Ericsson LM,Nokia,Deutsche Telekom*

(Replaces S5-202258)

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

**S5-202259 pCR TS 28.536 Assurance data**

*Type: pCR For: Agreement  
 28.536 v0.2.0  
 Source: Ericsson LM*

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

**S5-202260 pCR TS 28.536 Add the procedure of NWDAF assisted SLA assurance**

*Type: pCR For: Approval  
 28.536 v0.2.0  
 Source: Huawei*

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

**S5-202261 pCR TS 28.536 Add list of interfaces in 4.1.1**

*Type: pCR For: Approval  
 28.536 v0.2.0  
 Source: Huawei*

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

**S5-202274 NWDAF assisted CSI SLS Assurance MnS and Procedure**

*Type: pCR For: Agreement  
 28.536 v0.2.0  
 Source: Samsung Electronics France SA*

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

**S5-202397 draft TS 28.535**

*Type: draft TS For: Approval  
 28.535 v1.2.0  
 Source: Ericsson*

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

**S5-202398 draft TS 28.536**

*Type: draft TS For: Approval  
 28.536 v0.3.0  
 Source: Ericsson*

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

#### 6.4.8 Streaming trace reporting

**S5-202287 Rel-16 CR 28.532 Add streaming trace data reporting service stage 2 definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0117 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202385**.

**S5-202385 Rel-16 CR 28.532 Add streaming trace data reporting service stage 2 definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0117 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202287)

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

**S5-202288 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 mapping of operations**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0118 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202386**.

**S5-202386 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 mapping of operations**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0118 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202288)

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

**S5-202289 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 resources**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0119 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202387**.

**S5-202387 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 resources**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0119 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202289)

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

**S5-202290 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 data types**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0120 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202388**.

**S5-202388 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 data types**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0120 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202290)

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

**S5-202291 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 open API definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0121 Cat: B (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-202389**.

**S5-202389 Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 open API definition**

*Type: CR For: Approval  
 28.532 v16.3.0 CR-0121 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia*

(Replaces S5-202291)

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

#### 6.4.9 Self-Organizing Networks (SON) for 5G networks

**S5-202027 Reply LS ccSA5 on Information Needed for MRO in UE RLF Report**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2002393*

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

**S5-202040 pCR 28.313 changes to PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-202327**.

**S5-202327 pCR 28.313 changes to PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-202040)

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

**S5-202041 pCR 28.313 revise MRO use case, requirements, information, and procedure**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-202306**.

**S5-202306 pCR 28.313 revise MRO use case, requirements, information, and procedure**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-202041)

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

**S5-202042 pCR 28.313 changes to RACH optimization**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-202326**.

**S5-202326 pCR 28.313 changes to RACH optimization**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-202042)

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

**S5-202043 Rel-16 CR 28.552 Add measurements related to RACH optimization**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0209 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-202349**.

**S5-202349 Rel-16 CR 28.552 Add measurements related to RACH optimization**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0209 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-202043)

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

**S5-202044 Rel-16 CR 28.552 Add handover measurements related to MRO**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0210 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-202325**.

**S5-202325 Rel-16 CR 28.552 Add handover measurements related to MRO**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0210 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-202044)

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

**S5-202084 Replace DN with better identifier for whitelists and blacklists management**

*Type: discussion For: Endorsement  
 28.541 v..  
 Source: Ericsson France S.A.S*

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

**S5-202085 Replace DN with better identifier for whitelists and blacklists management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0260 Cat: F (Rel-16)  
  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-202303**.

**S5-202303 Replace DN with better identifier for whitelists and blacklists management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0260 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-202085)

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

**S5-202110 Discussion paper for PCI related measurement**

*Type: discussion For: Endorsement  
 28.313 v..  
 Source: Intel Corporation (UK) Ltd*

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

**S5-202111 Rel-16 CR 28.552 Add PCI related measurement of candidate cells**

*Type: CR For: Approval  
 28.552 v16.5.0 CR-0219 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-202185 CR TS 28.541 Add the NRM fragement for SON management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0267 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

**Decision:** The document was **revised to S5-202330**.

**S5-202330 CR TS 28.541 Add the NRM fragement for SON management**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0267 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei, Orange, Intel*

(Replaces S5-202185)

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

**S5-202186 CR TS 28.541 ANR management for EN-DC architecture**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0268 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202328**.

**S5-202328 CR TS 28.541 ANR management for EN-DC architecture**

*Type: CR For: Approval  
 28.541 v16.4.1 CR-0268 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202186)

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

**S5-202187 pCR TS 28.313 clarification on RAN-related discriptions of SON management service**

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

**Decision:** The document was **revised to S5-202322**.

**S5-202322 pCR TS 28.313 clarification on RAN-related discriptions of SON management service**

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

(Replaces S5-202187)

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

**S5-202188 pCR TS 28.313 Clarification on the D-SON terminologies**

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

**Decision:** The document was **revised to S5-202323**.

**S5-202323 pCR TS 28.313 Clarification on the D-SON terminologies**

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

(Replaces S5-202188)

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

**S5-202189 LS for D-SON management**

*Type: LS out For: Approval  
 to RAN3  
 Source: Huawei*

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

**S5-202209 pCR TS 28.313 Management service description**

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

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

**S5-202245 pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Huawei,China Telecom*

(Replaces S5-201585)

**Abstract:**

Resubmisson of the S5-201585 which is approved in 3GPP SA5#129emeeting but have not be implemented in the TS 28.313 v030

**Decision:** The document was **revised to S5-202329**.

**S5-202329 pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network**

*Type: pCR For: Approval  
 28.313 v0.3.0  
 Source: Huawei,China Telecom*

(Replaces S5-202245)

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

**S5-202346 draft TS 28.313**

*Type: draft TS For: Approval  
 28.313 v0.4.0  
 Source: Intel*

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

#### 6.4.10 Enhancement of 3GPP management system for multiple tenant environment support

**S5-202155 Rel-16 CR TS 28.530 Extend roles related to 5G networks and network slicing management**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0022 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202334**.

**S5-202334 Rel-16 CR TS 28.530 Extend roles related to 5G networks and network slicing management**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0022 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202155)

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

**S5-202156 Rel-16 CR TS 28.530 Update use case exposure of network slice management data for network slice as a service**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0023 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202157 Rel-16 CR TS 28.533 Clarify management framework support in multiple tenant environment**

*Type: CR For: Agreement  
 28.533 v16.3.0 CR-0067 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202158 Rel-16 CR TS 28.541 Add tenantList attribute to ServiceProfile**

*Type: CR For: Agreement  
 28.541 v16.4.1 CR-0265 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202159 Revised WID on enhancement of 3GPP management system for multiple tenant envorinment support**

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

**Decision:** The document was **revised to S5-202335**.

**S5-202335 Revised WID on enhancement of 3GPP management system for multiple tenant envorinment support**

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

(Replaces S5-202159)

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

**S5-202160 Rel-16 CR 28.550 Clarify performance measurement for a tenant**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0052 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202332**.

**S5-202332 Rel-16 CR 28.550 Clarify performance measurement for a tenant**

*Type: CR For: Agreement  
 28.550 v16.4.0 CR-0052 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202160)

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

**S5-202161 Rel-16 CR 28.552 Clarify performance indicators exposed to a tenant**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0220 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202333**.

**S5-202333 Rel-16 CR 28.552 Clarify performance indicators exposed to a tenant**

*Type: CR For: Agreement  
 28.552 v16.5.0 CR-0220 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202161)

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

**S5-202217 Rel16 CR 28.533 Add clarifications to description of tenant concept**

*Type: CR For: Agreement  
 28.533 v16.3.0 CR-0068 Cat: B (Rel-16)  
  
 Source: Telefónica S.A.*

**Decision:** The document was **revised to S5-202331**.

**S5-202331 Rel16 CR 28.533 Add clarifications to description of tenant concept**

*Type: CR For: Agreement  
 28.533 v16.3.0 CR-0068 rev 1 Cat: B (Rel-16)  
  
 Source: Telefónica S.A.*

(Replaces S5-202217)

**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 protocol enhancement for real time communication

#### 6.6.2 Study on non-public networks management

**S5-202026 Reply LS to SA5 on CAG definition**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2001703*

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

**S5-202133 pCR 28.807 Add requirements for management of SNPN and PNI-NPN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: TELEFONICA S.A.*

**Abstract:**

It is proposed to include potential requirements for the management of SNPN and PNI-NPN.

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

**S5-202196 pCR 28.807 Use PNI-NPN terminology**

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

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

**S5-202197 pCR 28.807 Rapporteur clean up proposal**

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

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

**S5-202198 pCR 28.807 clarification on NPN supported by network slice instance of a PLMN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: Huawei, Telefónica S.A.*

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

**S5-202199 pCR 28.807 Add CAG configuration requirement**

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

**Decision:** The document was **revised to S5-202336**.

**S5-202336 pCR 28.807 Add CAG configuration requirement**

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

(Replaces S5-202199)

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

**S5-202200 pCR 28.807 Add management requirement**

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

**Decision:** The document was **revised to S5-202337**.

**S5-202337 pCR 28.807 Add management requirement**

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

(Replaces S5-202200)

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

**S5-202215 pCR 28.807 Add requirements for management of SNPN and PNI-NPN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: Telefónica S.A., Huawei*

**Abstract:**

It is proposed to include potential requirements for the management of SNPN and PNI-NPN.

**Decision:** The document was **revised to S5-202338**.

**S5-202338 pCR 28.807 Add requirements for management of SNPN and PNI-NPN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: Telefónica S.A., Huawei*

(Replaces S5-202215)

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

**S5-202216 pCR 28.807 Neutral host in the management of PNI-NPN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: Telefónica S.A.*

**Abstract:**

It is proposed to include discussion of management of Public Network Integrated NPN (PNI-NPN), when this NPN is supported by a neutral host. This constitutes an alternative approach to the “NPN supported by network slice instances of a PLMN” scenario.

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

**S5-202273 pCR 28.807 Additional considerations on NPN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: Orange, Telefonica*

**Decision:** The document was **revised to S5-202339**.

**S5-202339 pCR 28.807 Additional considerations on NPN**

*Type: pCR For: Approval  
 28.807 v1.0.0  
 Source: Orange, Telefonica*

(Replaces S5-202273)

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

**S5-202347 draft TS 28.807**

*Type: draft TS For: Approval  
 28.807 v1.1.0  
 Source: Huawei*

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

#### 6.6.3 Study on management and orchestration aspects with integrated satellite components in a 5G network

#### 6.6.4 Study on autonomous network levels

**S5-202119 pCR 28.810 Update capacity optimization scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: CATT, China Mobile*

**Decision:** The document was **revised to S5-202390**.

**S5-202390 pCR 28.810 Update capacity optimization scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: CATT, China Mobile,Huawei*

(Replaces S5-202119)

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

**S5-202239 pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: Huawei,China Mobile*

**Decision:** The document was **revised to S5-202391**.

**S5-202391 pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: Huawei,China Mobile*

(Replaces S5-202239)

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

**S5-202240 pCR 28.810 Update Clause 5.2 Coverage optimization scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: Huawei,China Mobile*

**Decision:** The document was **revised to S5-202392**.

**S5-202392 pCR 28.810 Update Clause 5.2 Coverage optimization scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: Huawei,China Mobile*

(Replaces S5-202240)

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

**S5-202246 pCR 28.810 Update Clause 4.4 Potential dimensions for classification of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: China Mobile, Huawei*

**Decision:** The document was **revised to S5-202393**.

**S5-202393 pCR 28.810 Update Clause 4.4 Potential dimensions for classification of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: China Mobile, Huawei*

(Replaces S5-202246)

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

**S5-202249 pCR 28.810 Update Clause 5 Scenarios**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: China Mobile, Huawei*

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

**S5-202254 pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for classification of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: China Mobile, Huawei, CATT*

**Decision:** The document was **revised to S5-202394**.

**S5-202394 pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for classification of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.3.0  
 Source: China Mobile, Huawei, CATT*

(Replaces S5-202254)

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

**S5-202396 draft TR 28.810**

*Type: draft TR For: Approval  
 28.810 v0.4.0  
 Source: China mobile*

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

#### 6.6.5 Study on enhancement of Management Data Analytics Service

#### 6.6.6 Study on network slice management enhancements

#### 6.6.7 Study on new aspects of EE for 5G networks

#### 6.6.8 Study on management aspects of edge computing

## 7 Charging

### 7.1 Charging Plenary

**S5-202022 LS Out to SA2 and 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**.

**S5-202294 CH Agenda and Time Plan**

*Type: agenda For: Approval  
 Source: SA5 Vice Chair (Nokia)*

**Decision:** The document was **revised to S5-202405**.

**S5-202405 CH Agenda and Time Plan**

*Type: agenda For: Approval  
 Source: SA5 Vice Chair (Nokia)*

(Replaces S5-202294)

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

### 7.2 New Charging Work Item proposals

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-202053 Rel-16 CR 32.290 Default handling for one time events**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0110 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202054 Rel-16 CR 32.291 Default handling for one time events**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0210 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202055 Rel-16 CR 32.255 Correcting charging characteristics category to mandatory**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0208 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202056 Rel-16 CR 32.291 Correcting charging characteristics category to mandatory**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202057 Rel-16 CR 32.298 Correcting charging characteristics category to mandatory**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0798 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202058 Rel-16 CR 32.255 Correcting triggers as mandatory for QFI container**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0209 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202059 Rel-16 CR 32.291 Correcting triggers as mandatory for QFI container**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0212 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202060 Rel-16 CR 32.255 Correcting time and volume as mandatory for Qos flow usage reporting**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0210 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202061 Rel-16 CR 32.291 Correcting time and volume as mandatory for Qos flow usage reporting**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202062 Rel-16 CR 32.290 Correction of local sequence number handling**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0111 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202063 Rel-16 CR 32.240 Correcting reference point naming for non-5G**

*Type: CR For: Agreement  
 32.240 v16.1.0 CR-0412 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202064 Rel-16 CR 32.255 Missing network slice instance identifier for QBC**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0211 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202065 Rel-16 CR 32.291 Missing network slice info for QBC**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0214 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202433**.

**S5-202433 Rel-16 CR 32.291 Missing network slice info for QBC**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0214 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202065)

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

**S5-202066 Rel-16 CR 32.298 Missing network slice instance identifier for QBC**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0799 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202067 Rel-15 CR 32.291 Missing AMF as network function**

*Type: CR For: Agreement  
 32.291 v15.5.0 CR-0215 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-202068 Rel-16 CR 32.291 Missing AMF as network function**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0216 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-202069 Rel-16 CR 32.298 Correction of startOfServiceDataFlowNoSession naming**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0800 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202461**.

**S5-202461 Rel-16 CR 32.298 Correction of startOfServiceDataFlowNoSession naming**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0800 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202069)

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

**S5-202070 Rel-15 CR 32.298 Missing trigger for GFBR guaranteed status change**

*Type: CR For: Agreement  
 32.298 v15.10.1 CR-0801 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-202071 Rel-16 CR 32.298 Missing trigger for GFBR guaranteed status change**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0802 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-202072 Rel-16 CR 32.298 Missing I-SMF as network function**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0803 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202434**.

**S5-202073 Rel-16 CR 32.298 Missing QoS characteristics in QFI container**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0804 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202435**.

**S5-202074 Rel-16 CR 32.298 Missing time in QFI container**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0805 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202436**.

**S5-202075 Rel-16 CR 32.291 Missing event limit in trigger type**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0217 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202437**.

**S5-202076 Rel-16 CR 32.291 Missing constraint of SMSC Address**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0218 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202077 Rel-16 CR 32.291 Missing downlink volume in QFI container**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0219 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202078 Rel-16 CR 32.291 Correction of content problem, callback and version**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0220 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-202120 Rel-15 CR 32.298 Correction of UserLocationInformation**

*Type: CR For: (not specified)  
 32.298 v15.10.1 CR-0806 Cat: F (Rel-15)  
  
 Source: China Mobile Com. Corporation*

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

**S5-202121 Rel-16 CR 32.298 Correction of UserLocationInformation**

*Type: CR For: Approval  
 32.298 v16.4.1 CR-0807 Cat: A (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-202162 Rel-16 CR 32.254 Add the Retransmission Indicator**

*Type: CR For: Agreement  
 32.254 v16.2.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202417**.

**S5-202163 Rel-16 CR 32.255 Add the Retransmission Indicator**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0212 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202418**.

**S5-202164 Rel-16 CR 32.256 Add the Retransmission Indicator**

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

**Decision:** The document was **revised to S5-202419**.

**S5-202165 Rel-16 CR 32.291 Add the Retransmission Indicator in Open API**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0221 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202420**.

**S5-202166 Rel-16 CR 32.254 Correct the message content for NEF charging**

*Type: CR For: Agreement  
 32.254 v16.2.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202421**.

**S5-202167 Rel-16 CR 32.256 Correct the Event offline charging scenarios**

*Type: CR For: Agreement  
 32.256 v16.0.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202422**.

**S5-202168 Rel-16 CR 32.291 Correct the PDU Address**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0222 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202169 Rel-15 CR 32.291 Add the reference about the storage of OPENAPI in FORGE**

*Type: CR For: Agreement  
 32.291 v15.5.0 CR-0223 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-202170 Rel-16 CR 32.291 Add the reference about the storage of OPENAPI in FORGE**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0224 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202431**.

**S5-202171 Rel-15 CR 32.290 Correction on Service Termination**

*Type: CR For: Agreement  
 32.290 v15.6.0 CR-0113 Cat: F (Rel-15)  
  
 Source: Huawei*

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

**S5-202172 Rel-16 CR 32.290 Correction on Service Termination**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0114 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202432**.

**S5-202173 Rel-16 CR 32.255 Add PDU address for IPv6 multi-homing**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0213 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202174 Rel-16 CR 32.291 Add PDU address for IPv6 multi-homing**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0225 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202175 Rel-16 CR 32.298 Add PDU address for IPv6 multi-homing**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0808 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-202241 Rel-16 CR 32.291 Correction of NodeFunctionality**

*Type: CR For: Approval  
 32.291 v16.3.0 CR-0228 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-202411**.

**S5-202252 Rel-16 CR 32.255 Correction of Charging Identifier definition**

*Type: CR For: Approval  
 32.255 v16.4.0 CR-0217 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-202413**.

**S5-202285 Rel-15 CR 32.298 Correction ASN.1 imported module version**

*Type: CR For: Agreement  
 32.298 v15.10.1 CR-0809 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202286 Rel-16 CR 32.298 Correction ASN.1 imported module version**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0810 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202402 Rel-15 CR 32.298 Correction of startOfServiceDataFlowNoSession naming**

*Type: CR For: Agreement  
 32.298 v15.10.1 CR-0811 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

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

**S5-202411 Rel-16 CR 32.291 Correction of NodeFunctionality**

*Type: CR For: Approval  
 32.291 v16.3.0 CR-0228 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-202241)

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

**S5-202412 Rel-16 CR 32.255 Correction of Serving Network Function Functionality for I-SMF**

*Type: CR For: Approval  
 32.255 v16.4.0 CR-0223 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-202401)

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

**S5-202413 Rel-16 CR 32.255 Correction of Charging Identifier definition**

*Type: CR For: Approval  
 32.255 v16.4.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-202252)

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

**S5-202417 Rel-16 CR 32.254 Add the Retransmission Indicator**

*Type: CR For: Agreement  
 32.254 v16.2.0 CR-0011 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202162)

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

**S5-202418 Rel-16 CR 32.255 Add the Retransmission Indicator**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0212 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202163)

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

**S5-202419 Rel-16 CR 32.256 Add the Retransmission Indicator**

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

(Replaces S5-202164)

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

**S5-202420 Rel-16 CR 32.291 Add the Retransmission Indicator in Open API**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0221 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202165)

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

**S5-202421 Rel-16 CR 32.254 Correct the message content for NEF charging**

*Type: CR For: Agreement  
 32.254 v16.2.0 CR-0012 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202166)

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

**S5-202422 Rel-16 CR 32.256 Correct the Event offline charging scenarios**

*Type: CR For: Agreement  
 32.256 v16.0.0 CR-0002 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202167)

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

**S5-202431 Rel-16 CR 32.291 Add the reference about the storage of OPENAPI in FORGE**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0224 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202170)

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

**S5-202432 Rel-16 CR 32.290 Correction on Service Termination**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0114 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-202172)

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

**S5-202434 Rel-16 CR 32.298 Missing I-SMF as network function**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0803 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202072)

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

**S5-202435 Rel-16 CR 32.298 Missing QoS characteristics in QFI container**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0804 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202073)

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

**S5-202436 Rel-16 CR 32.298 Missing time in QFI container**

*Type: CR For: Agreement  
 32.298 v16.4.1 CR-0805 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202074)

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

**S5-202437 Rel-16 CR 32.291 Missing event limit in trigger type**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0217 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-202075)

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

**S5-202401 Rel-16 CR 32.255 Correction of Serving Network Function Functionality for I-SMF**

*Type: CR For: Discussion  
 32.255 v16.4.0 CR-0223 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-202412**.

### 7.4 Rel-16 Charging

#### 7.4.1 IMS Charging in 5G System Architecture

#### 7.4.2 Network Slice Performance and Analytics Charging in 5G System

**S5-202079 Rel-16 pCR 28.201 Introduction of flows for NWDAF for subscribing to analytics information**

*Type: pCR For: Approval  
 28.201 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202439**.

**S5-202080 Rel-16 pCR 28.201 Introduction of MnS service consumption**

*Type: pCR For: Approval  
 28.201 v0.3.0  
 Source: Ericsson*

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

**S5-202081 Rel-16 pCR 28.201 Update of triggers**

*Type: pCR For: Approval  
 28.201 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-202440**.

**S5-202082 Rel-16 pCR 28.201 Adding charging data request and response message**

*Type: pCR For: Approval  
 28.201 v0.3.0  
 Source: Ericsson*

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

**S5-202134 LS on NWDAF for Network Slice Performance and Analytics Charging**

*Type: LS out For: Agreement  
 to SA2  
 Source: Huawei*

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

**S5-202135 Rel-16 pCR 28.201 Add the general message flows description in clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202425**.

**S5-202136 Rel-16 pCR 28.201 Add the NWDAF and MnS producer message flows description**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202427**.

**S5-202137 Rel-16 pCR 28.201 Add the Charging Data request and response**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202438**.

**S5-202138 Rel-16 pCR 28.201 Add the Network slice performance and analytics CHF CDR data**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202430**.

**S5-202139 Rel-16 pCR 28.201 Add detailed message format for converged charging**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202428**.

**S5-202140 Rel-16 pCR 28.201 Remove the editor's note in clause 4**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202429**.

**S5-202141 Rel-16 pCR 28.201 Remove the editor's note in clause 5.1.5**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202424**.

**S5-202142 Rel-16 pCR 28.201 Remove the editor's note in clause 5.2.1.1**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-202423**.

**S5-202143 Rel-16 CR 32.290 API definition for network slice performance and analytics charging**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0112 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202144 Rel-16 pCR 28.201 Add charging requirements**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

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

**S5-202416 Rel-16 pCR 28.201 Add charging requirements**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

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

**S5-202423 Rel-16 pCR 28.201 Remove the editor's note in clause 5.2.1.1**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202142)

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

**S5-202424 Rel-16 pCR 28.201 Remove the editor's note in clause 5.1.5**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202141)

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

**S5-202425 Rel-16 pCR 28.201 Add the general message flows description in clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202135)

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

**S5-202427 Rel-16 pCR 28.201 Add the NWDAF and MnS producer message flows description**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202136)

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

**S5-202428 Rel-16 pCR 28.201 Add detailed message format for converged charging**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202139)

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

**S5-202429 Rel-16 pCR 28.201 Remove the editor's note in clause 4**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202140)

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

**S5-202430 Rel-16 pCR 28.201 Add the Network slice performance and analytics CHF CDR data**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202138)

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

**S5-202438 Rel-16 pCR 28.201 Add the Charging Data request and response**

*Type: pCR For: Agreement  
 28.201 v0.3.0  
 Source: Huawei*

(Replaces S5-202137)

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

**S5-202439 Rel-16 pCR 28.201 Introduction of flows for NWDAF for subscribing to analytics information**

*Type: pCR For: Approval  
 28.201 v0.3.0  
 Source: Ericsson*

(Replaces S5-202079)

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

**S5-202440 Rel-16 pCR 28.201 Update of triggers**

*Type: pCR For: Approval  
 28.201 v0.3.0  
 Source: Ericsson*

(Replaces S5-202081)

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

**S5-202403 Draft TS 28.201**

*Type: draft TS For: Approval  
 28.201 v0.4.0  
 Source: Huawei*

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

#### 7.4.3 Network Slice Management Charging in 5G System

**S5-202039 Rel-16 pCR 28.202 Create initial text for the Scope clause**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Openet Telecom*

**Abstract:**

This pCR proposes the insertion of the initial text for Clause 1 Scope.

**Decision:** The document was **revised to S5-202426**.

**S5-202083 Rel-16 pCR 28.202 Introduction of architecture considerations**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Ericsson*

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

**S5-202092 DP Charging architecture for Network Slice Management Charging in 5GS**

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

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

**S5-202093 Rel-16 pCR 28.202 Introduce symbols abbreviations and references**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202441**.

**S5-202094 Rel-16 pCR 28.202 Introduce Architecture**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202442**.

**S5-202095 Rel-16 pCR 28.202 Introduce Charging Principles**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202443**.

**S5-202096 Rel-16 pCR 28.202 Introduce NS management Charging scenarios principles**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202444**.

**S5-202097 Rel-16 pCR 28.202 Introduce NS management charging triggers and flows**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202445**.

**S5-202098 Rel-16 pCR 28.202 Introduce CDR generation**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202446**.

**S5-202099 Rel-16 pCR 28.202 Introduce Message content**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202447**.

**S5-202100 Rel-16 pCR 28.202 Introduce NS management charging information**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202448**.

**S5-202426 Rel-16 pCR 28.202 Create initial text for the Scope clause**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Openet Telecom*

(Replaces S5-202039)

**Abstract:**

This is a pCR to TS 28.202 to create some initial text for clause 1 Scope.

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

**S5-202441 Rel-16 pCR 28.202 Introduce symbols abbreviations and references**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202093)

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

**S5-202442 Rel-16 pCR 28.202 Introduce Architecture**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202094)

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

**S5-202443 Rel-16 pCR 28.202 Introduce Charging Principles**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202095)

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

**S5-202444 Rel-16 pCR 28.202 Introduce NS management Charging scenarios principles**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202096)

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

**S5-202445 Rel-16 pCR 28.202 Introduce NS management charging triggers and flows**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202097)

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

**S5-202446 Rel-16 pCR 28.202 Introduce CDR generation**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202098)

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

**S5-202447 Rel-16 pCR 28.202 Introduce Message content**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202099)

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

**S5-202448 Rel-16 pCR 28.202 Introduce NS management charging information**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202100)

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

**S5-202400 Charging architecture for Network Slice Charging in 5GS**

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

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

**S5-202404 Draft TS 28.202**

*Type: draft TS For: Approval  
 28.202 v0.1.0  
 Source: Nokia*

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

#### 7.4.4 Charging Access Traffic Steering, Switching and Splitting in 5G system architecture

**S5-202007 S5-201156 Rel-16 CR 32.255 Introduction of ATSSS triggers**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0207 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202449**.

**S5-202264 Rel-16 CR 32.255 Introduction of MA PDU session indicator**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0218 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202450**.

**S5-202265 Rel-16 CR 32.255 Clarify ATSSS when same rating group for 3GPP and non-3GPP**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0219 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202451**.

**S5-202266 Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed Network requested**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0220 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202267 Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed UE requested**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0221 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-202452**.

**S5-202268 Rel-16 CR 32.255 Introduction of ATSSS EPS interworking**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0222 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-202449 S5-201156 Rel-16 CR 32.255 Introduction of ATSSS triggers**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0207 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202007)

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

**S5-202450 Rel-16 CR 32.255 Introduction of MA PDU session indicator**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0218 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202264)

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

**S5-202451 Rel-16 CR 32.255 Clarify ATSSS when same rating group for 3GPP and non-3GPP**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0219 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202265)

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

**S5-202452 Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed UE requested**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0221 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-202267)

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

#### 7.4.5 Charging Aspect for 5WWC

**S5-202176 Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0226 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202410**.

**S5-202177 Rel-16 CR 32.255 Add 5WWC charging information**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0214 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202415**.

**S5-202178 Rel-16 CR 32.255 Add procedure for 5G-RG handover**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0215 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-202414**.

**S5-202179 Rel-16 CR 32.255 Add trigger for access network handover**

*Type: CR For: Agreement  
 32.255 v16.4.0 CR-0216 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202410 Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.291 v16.3.0  
 Source: Huawei*

(Replaces S5-202176)

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

**S5-202414 Rel-16 CR 32.255 Add procedure for 5G-RG handover**

*Type: CR For: Agreement  
 32.255 v16.4.0  
 Source: Huawei*

(Replaces S5-202178)

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

**S5-202415 Rel-16 CR 32.255 Add 5WWC charging information**

*Type: CR For: Agreement  
 32.255 v16.4.0  
 Source: Huawei*

(Replaces S5-202177)

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

#### 7.4.6 CHF-controlled quota management

**S5-202180 Rel-16 CR 32.290 Addition of suspend or resume quota management**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0115 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202181 Rel-16 CR 32.291 Addition of suspend or resume quota management**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0227 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-202263 DP CHF- controlled quota management impact beyond SMF**

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

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

**S5-202277 Add CHF-Controlled Quota Management functionality**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0116 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-202284 Add Quota Management new data types**

*Type: CR For: Agreement  
 32.291 v16.3.0 CR-0229 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

## 8 Any Other Business

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Document | 1. Title | 1. Source | 1. Decision | 1. Replaces | 1. Replaced by |
| S5-202000 | Agenda | WG Chair | approved |  |  |
| S5-202001 | SA5#128 meeting report | MCC | approved |  |  |
| S5-202002 | SA5#129e meeting report | MCC | approved |  |  |
| S5-202003 | New measuremenst for average call duration | Nokia Solutions & Networks (I) | revised |  | S5-202317 |
| S5-202004 | Rel-16 CR TS 28.532 Void meaningless clause | AT&T, Orange | revised |  | S5-202351 |
| S5-202005 | Rel 16 CR TS 28.554 Fixing Equations | Samsung Electronics France SA | not pursued |  |  |
| S5-202006 | Rel 15 CR TS 28.554 Fixing Equations | Samsung Electronics France SA | not pursued |  |  |
| S5-202007 | S5-201156 Rel-16 CR 32.255 Introduction of ATSSS triggers | Nokia, Nokia Shanghai Bell | revised |  | S5-202449 |
| S5-202008 | Rel 15 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | revised |  | S5-202455 |
| S5-202009 | Rel 16 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | revised |  | S5-202456 |
| S5-202010 | pCR TS 28.406 Add definitions of terms, symbols and abbreviations | Nanjing Ericsson Panda Com Ltd | approved |  |  |
| S5-202011 | pCR TS 28.406 Add QoE record contents | Nanjing Ericsson Panda Com Ltd | revised |  | S5-202324 |
| S5-202012 | LS to CT4 on SNSSAI support in N4 Session Establishment | Samsung Electronics France SA | revised |  | S5-202308 |
| S5-202013 | SA5-130e E-Meeting Process | WG Chair | approved |  |  |
| S5-202014 | Corrections of Number of Active UEs measurements | Ericsson LM | agreed |  |  |
| S5-202015 | Correction of Average delay UL on over-the-air interface measurement | Ericsson LM | revised |  | S5-202313 |
| S5-202016 | Add measurement Average RLC packet delay in the UL | Ericsson LM | revised |  | S5-202311 |
| S5-202017 | Add measurement Average PDCP re-ordering delay in the UL | Ericsson LM | revised |  | S5-202312 |
| S5-202018 | Add Number of stored inactive UE contexts measurements | Ericsson LM | agreed |  |  |
| S5-202019 | Resubmitted LS to SA5 on EN-DC related MDT configuration details | R2-1916579 | replied to |  |  |
| S5-202020 | Resubmitted LS to SA5 on Reply on QoE Measurement Collection | S4-200241 | replied to |  |  |
| S5-202021 | Resubmitted Reply LS to SA5 on QoE Measurement Collection | R2-1916328 | replied to |  |  |
| S5-202022 | LS Out to SA2 and SA5 on making PSCELL ID available at the SGW of EPC | ETSI TC LI | postponed |  |  |
| S5-202023 | Formation of a new ETSI ISG for the Fifth Generation Fixed Network (F5G) | ETSI ISG F5G | noted |  |  |
| S5-202024 | LS reply ccSA5 on initiation of a new work item Y.IMT2020-NSC “IMT-2020 network slice configuration | GSMA | noted |  |  |
| S5-202025 | LS to SA5 on EN-DC related MDT configuration details | R2-1916579 | withdrawn |  |  |
| S5-202026 | Reply LS to SA5 on CAG definition | R2-2001703 | noted |  |  |
| S5-202027 | Reply LS ccSA5 on Information Needed for MRO in UE RLF Report | R2-2002393 | noted |  |  |
| S5-202028 | Reply LS to SA5 on QoS monitoring for URLLC | R3-201372 | noted |  |  |
| S5-202029 | Reply LS to SA5 on support for eCall over NR | SP-200287 | postponed |  |  |
| S5-202030 | LS reply to SA5 on Technical Community Cooperation: Generic Network Management | ONAP | replied to |  |  |
| S5-202031 | LS to SA5 on removal of Management Based MDT Allowed IE for NR | R3-201437 | postponed |  |  |
| S5-202032 | LS ccSA5 on Generic Slice Template with Public Safety Feedback | TCCA | noted |  |  |
| S5-202033 | Discussion on restructure RRMPolicyRatio | Huawei, Ericsson,CATT,China Telecom, China Mobile | endorsed |  |  |
| S5-202034 | Rel-16 CR TS 28.541 Update on RRMPolicyRatio | Huawei, Ericsson,CATT,China Telecom, China Mobile | revised |  | S5-202368 |
| S5-202035 | Add KPI for UL packet delay in NG-RAN | Ericsson LM | not pursued |  |  |
| S5-202036 | Correction of Integrated downlink delay in RAN KPI | Ericsson LM | not pursued |  |  |
| S5-202037 | Correction of Downlink latency in gNB-DU KPI | Ericsson LM | revised |  | S5-202314 |
| S5-202038 | Removal of the KPI named KPI categories | Ericsson LM | agreed |  |  |
| S5-202039 | Rel-16 pCR 28.202 Create initial text for the Scope clause | Openet Telecom | revised |  | S5-202426 |
| S5-202040 | pCR 28.313 changes to PCI configuration | Intel Corporation (UK) Ltd | revised |  | S5-202327 |
| S5-202041 | pCR 28.313 revise MRO use case, requirements, information, and procedure | Intel Corporation (UK) Ltd | revised |  | S5-202306 |
| S5-202042 | pCR 28.313 changes to RACH optimization | Intel Corporation (UK) Ltd | revised |  | S5-202326 |
| S5-202043 | Rel-16 CR 28.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | revised |  | S5-202349 |
| S5-202044 | Rel-16 CR 28.552 Add handover measurements related to MRO | Intel Corporation (UK) Ltd | revised |  | S5-202325 |
| S5-202045 | Rel-16 CR TS 28.552 Update the measurements related to the delay of DL air-interface | Huawei | revised |  | S5-202318 |
| S5-202046 | Rel-16 CR TS 28.552 Update the precision of packet delay | Huawei | revised |  | S5-202313 |
| S5-202047 | Rel-16 CR TS 28.552 Move the network slice related measurements to clause 6 | Huawei | not pursued |  |  |
| S5-202048 | Rel-16 CR TS 28.552 add the referrence to slice related measurements in clause 6 | Huawei | not pursued |  |  |
| S5-202049 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | revised | S5-201385 | S5-202356 |
| S5-202050 | Rel-16 CR 28.532 Remove subscribe and unsubscribe operation from ProvMnS | Nokia, Nokia Shanghai Bell | agreed | S5-201390 |  |
| S5-202051 | Reply LS to LS on removal of Management Based MDT Allowed IE for NR | Oy LM Ericsson AB | withdrawn |  |  |
| S5-202052 | Reply LS to LS on EN-DC related MDT configuration details | Oy LM Ericsson AB | approved |  |  |
| S5-202053 | Rel-16 CR 32.290 Default handling for one time events | Ericsson | not pursued |  |  |
| S5-202054 | Rel-16 CR 32.291 Default handling for one time events | Ericsson | not pursued |  |  |
| S5-202055 | Rel-16 CR 32.255 Correcting charging characteristics category to mandatory | Ericsson | not pursued |  |  |
| S5-202056 | Rel-16 CR 32.291 Correcting charging characteristics category to mandatory | Ericsson | not pursued |  |  |
| S5-202057 | Rel-16 CR 32.298 Correcting charging characteristics category to mandatory | Ericsson | not pursued |  |  |
| S5-202058 | Rel-16 CR 32.255 Correcting triggers as mandatory for QFI container | Ericsson | not pursued |  |  |
| S5-202059 | Rel-16 CR 32.291 Correcting triggers as mandatory for QFI container | Ericsson | not pursued |  |  |
| S5-202060 | Rel-16 CR 32.255 Correcting time and volume as mandatory for Qos flow usage reporting | Ericsson | not pursued |  |  |
| S5-202061 | Rel-16 CR 32.291 Correcting time and volume as mandatory for Qos flow usage reporting | Ericsson | not pursued |  |  |
| S5-202062 | Rel-16 CR 32.290 Correction of local sequence number handling | Ericsson | not pursued |  |  |
| S5-202063 | Rel-16 CR 32.240 Correcting reference point naming for non-5G | Ericsson | not pursued |  |  |
| S5-202064 | Rel-16 CR 32.255 Missing network slice instance identifier for QBC | Ericsson | not pursued |  |  |
| S5-202065 | Rel-16 CR 32.291 Missing network slice info for QBC | Ericsson | revised |  | S5-202433 |
| S5-202066 | Rel-16 CR 32.298 Missing network slice instance identifier for QBC | Ericsson | not pursued |  |  |
| S5-202067 | Rel-15 CR 32.291 Missing AMF as network function | Ericsson | agreed |  |  |
| S5-202068 | Rel-16 CR 32.291 Missing AMF as network function | Ericsson | agreed |  |  |
| S5-202069 | Rel-16 CR 32.298 Correction of startOfServiceDataFlowNoSession naming | Ericsson | revised |  | S5-202461 |
| S5-202070 | Rel-15 CR 32.298 Missing trigger for GFBR guaranteed status change | Ericsson | agreed |  |  |
| S5-202071 | Rel-16 CR 32.298 Missing trigger for GFBR guaranteed status change | Ericsson | agreed |  |  |
| S5-202072 | Rel-16 CR 32.298 Missing I-SMF as network function | Ericsson | revised |  | S5-202434 |
| S5-202073 | Rel-16 CR 32.298 Missing QoS characteristics in QFI container | Ericsson | revised |  | S5-202435 |
| S5-202074 | Rel-16 CR 32.298 Missing time in QFI container | Ericsson | revised |  | S5-202436 |
| S5-202075 | Rel-16 CR 32.291 Missing event limit in trigger type | Ericsson | revised |  | S5-202437 |
| S5-202076 | Rel-16 CR 32.291 Missing constraint of SMSC Address | Ericsson | not pursued |  |  |
| S5-202077 | Rel-16 CR 32.291 Missing downlink volume in QFI container | Ericsson | agreed |  |  |
| S5-202078 | Rel-16 CR 32.291 Correction of content problem, callback and version | Ericsson | agreed |  |  |
| S5-202079 | Rel-16 pCR 28.201 Introduction of flows for NWDAF for subscribing to analytics information | Ericsson | revised |  | S5-202439 |
| S5-202080 | Rel-16 pCR 28.201 Introduction of MnS service consumption | Ericsson | noted |  |  |
| S5-202081 | Rel-16 pCR 28.201 Update of triggers | Ericsson | revised |  | S5-202440 |
| S5-202082 | Rel-16 pCR 28.201 Adding charging data request and response message | Ericsson | noted |  |  |
| S5-202083 | Rel-16 pCR 28.202 Introduction of architecture considerations | Ericsson | merged |  | S5-202442 |
| S5-202084 | Replace DN with better identifier for whitelists and blacklists management | Ericsson France S.A.S | endorsed |  |  |
| S5-202085 | Replace DN with better identifier for whitelists and blacklists management | Ericsson France S.A.S | revised |  | S5-202303 |
| S5-202086 | YANG-Push Notifications | Ericsson Hungary Ltd | not pursued |  |  |
| S5-202087 | Discussion paper on QoS requirements for OAM and Charging traffic on IAB | Intel Finland Oy | revised |  | S5-202457 |
| S5-202088 | Rel-15 CR 28.550 Add service components for configurable performance measurement control | Intel Finland Oy | not pursued |  |  |
| S5-202089 | Rel-16 CR 28.550 Add service components for configurable performance measurement control | Intel Finland Oy | not pursued |  |  |
| S5-202090 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | revised | S5-201182 | S5-202309 |
| S5-202091 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | revised | S5-201183 | S5-202310 |
| S5-202092 | DP Charging architecture for Network Slice Management Charging in 5GS | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-202093 | Rel-16 pCR 28.202 Introduce symbols abbreviations and references | Nokia, Nokia Shanghai Bell | revised |  | S5-202441 |
| S5-202094 | Rel-16 pCR 28.202 Introduce Architecture | Nokia, Nokia Shanghai Bell | revised |  | S5-202442 |
| S5-202095 | Rel-16 pCR 28.202 Introduce Charging Principles | Nokia, Nokia Shanghai Bell | revised |  | S5-202443 |
| S5-202096 | Rel-16 pCR 28.202 Introduce NS management Charging scenarios principles | Nokia, Nokia Shanghai Bell | revised |  | S5-202444 |
| S5-202097 | Rel-16 pCR 28.202 Introduce NS management charging triggers and flows | Nokia, Nokia Shanghai Bell | revised |  | S5-202445 |
| S5-202098 | Rel-16 pCR 28.202 Introduce CDR generation | Nokia, Nokia Shanghai Bell | revised |  | S5-202446 |
| S5-202099 | Rel-16 pCR 28.202 Introduce Message content | Nokia, Nokia Shanghai Bell | revised |  | S5-202447 |
| S5-202100 | Rel-16 pCR 28.202 Introduce NS management charging information | Nokia, Nokia Shanghai Bell | revised |  | S5-202448 |
| S5-202101 | Rel-16 CR 28.541 Add IOC for control of QoS monitoring per QoS flow per UE | Intel Finland Oy | agreed |  |  |
| S5-202102 | Update of KPI template | Ericsson LM | agreed |  |  |
| S5-202103 | Rel-16 CR 28.541 Add IOC for control of GTP-U path QoS monitoring | Intel Finland Oy | agreed |  |  |
| S5-202104 | Discussion paper around KPI Template | Ericsson LM | endorsed |  |  |
| S5-202105 | Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE | Intel Finland Oy | not pursued |  |  |
| S5-202106 | Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE | Intel Finland Oy | not pursued |  |  |
| S5-202107 | Discussion paper around UPF measurements | Ericsson LM | noted |  |  |
| S5-202108 | Rel-16 CR 28.552 Add measurements on DL packet delay in NG-RAN for Network Slice | Intel Finland Oy | not pursued |  |  |
| S5-202109 | Rel-16 CR 28.552 Add measurements on UL packet delay in NG-RAN for Network Slice | Intel Finland Oy | not pursued |  |  |
| S5-202110 | Discussion paper for PCI related measurement | Intel Corporation (UK) Ltd | noted |  |  |
| S5-202111 | Rel-16 CR 28.552 Add PCI related measurement of candidate cells | Intel Corporation (UK) Ltd | not pursued |  |  |
| S5-202112 | Add QoE Specifications | Oy LM Ericsson AB | revised |  | S5-202459 |
| S5-202113 | Replace Management based MDT Allowed IE with Management based MDT PLMN List IE for MDT user consent handling in NR | Oy LM Ericsson AB | agreed |  |  |
| S5-202114 | Add missing notification attributes for Matching-Criteria-Attributes | Oy LM Ericsson AB | not pursued |  |  |
| S5-202115 | Add missing notification attributes for Matching-Criteria-Attributes | Oy LM Ericsson AB | not pursued |  |  |
| S5-202116 | Rel-16 CR TS 28.541 Correction of reference | CATT | revised |  | S5-202352 |
| S5-202117 | Rel-16 CR 28.541 Update NRM attribute definitions | CATT, Ericsson | merged |  | S5-202303 |
| S5-202118 | Rel-16 CR 28.658 Update NRM attribute definitions | CATT, Ericsson | revised |  | S5-202353 |
| S5-202119 | pCR 28.810 Update capacity optimization scenario example for network autonomy level | CATT, China Mobile | revised |  | S5-202390 |
| S5-202120 | Rel-15 CR 32.298 Correction of UserLocationInformation | China Mobile Com. Corporation | not pursued |  |  |
| S5-202121 | Rel-16 CR 32.298 Correction of UserLocationInformation | China Mobile Com. Corporation | not pursued |  |  |
| S5-202122 | Rel-6 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | not pursued |  |  |
| S5-202123 | Rel-7 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | not pursued |  |  |
| S5-202124 | Rel-8 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | revised |  | S5-202350 |
| S5-202125 | Rel-9 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202126 | Rel-10 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202127 | Rel-11 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202128 | Rel-12 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202129 | Rel-13 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202130 | Rel-14 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202131 | Rel-15 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202132 | Rel-16 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed |  |  |
| S5-202133 | pCR 28.807 Add requirements for management of SNPN and PNI-NPN | TELEFONICA S.A. | withdrawn |  |  |
| S5-202134 | LS on NWDAF for Network Slice Performance and Analytics Charging | Huawei | noted |  |  |
| S5-202135 | Rel-16 pCR 28.201 Add the general message flows description in clause 5.2 | Huawei | revised |  | S5-202425 |
| S5-202136 | Rel-16 pCR 28.201 Add the NWDAF and MnS producer message flows description | Huawei | revised |  | S5-202427 |
| S5-202137 | Rel-16 pCR 28.201 Add the Charging Data request and response | Huawei | revised |  | S5-202438 |
| S5-202138 | Rel-16 pCR 28.201 Add the Network slice performance and analytics CHF CDR data | Huawei | revised |  | S5-202430 |
| S5-202139 | Rel-16 pCR 28.201 Add detailed message format for converged charging | Huawei | revised |  | S5-202428 |
| S5-202140 | Rel-16 pCR 28.201 Remove the editor's note in clause 4 | Huawei | revised |  | S5-202429 |
| S5-202141 | Rel-16 pCR 28.201 Remove the editor's note in clause 5.1.5 | Huawei | revised |  | S5-202424 |
| S5-202142 | Rel-16 pCR 28.201 Remove the editor's note in clause 5.2.1.1 | Huawei | revised |  | S5-202423 |
| S5-202143 | Rel-16 CR 32.290 API definition for network slice performance and analytics charging | Huawei | not pursued |  |  |
| S5-202144 | Rel-16 pCR 28.201 Add charging requirements | Huawei | noted |  | - |
| S5-202145 | Rel-16 CR TS 28.531 Fix inconsistencies | Huawei | not pursued |  |  |
| S5-202146 | Rel-16 CR TS 28.530 Fix inconsistencies | Huawei | not pursued |  |  |
| S5-202147 | Rel-16 CR 28.550 Correct Typos of Reference | Huawei | withdrawn |  |  |
| S5-202148 | Rel-16 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | revised |  | S5-202358 |
| S5-202149 | Rel-16 CR TS 28.531 fix NSI activation and deactivation use case | Huawei | revised |  | S5-202359 |
| S5-202150 | Rel-15 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | revised |  | S5-202360 |
| S5-202151 | Revised WID on Discovery of management services in 5G | Huawei | noted |  |  |
| S5-202152 | Rel-16 CR TS 28.533 Clarify the MnS producer profile | Huawei | not pursued |  |  |
| S5-202153 | Rel-16 CR TS 28.622 Clarify systemDN usage for MnS producer profile notification | Huawei | not pursued |  |  |
| S5-202154 | Discussion paper on CSI clarification in close loop control context | Huawei | revised |  | S5-202384 |
| S5-202155 | Rel-16 CR TS 28.530 Extend roles related to 5G networks and network slicing management | Huawei | revised |  | S5-202334 |
| S5-202156 | Rel-16 CR TS 28.530 Update use case exposure of network slice management data for network slice as a service | Huawei | not pursued |  |  |
| S5-202157 | Rel-16 CR TS 28.533 Clarify management framework support in multiple tenant environment | Huawei | merged |  | S5-202331 |
| S5-202158 | Rel-16 CR TS 28.541 Add tenantList attribute to ServiceProfile | Huawei | not pursued |  |  |
| S5-202159 | Revised WID on enhancement of 3GPP management system for multiple tenant envorinment support | Huawei | revised |  | S5-202335 |
| S5-202160 | Rel-16 CR 28.550 Clarify performance measurement for a tenant | Huawei | revised |  | S5-202332 |
| S5-202161 | Rel-16 CR 28.552 Clarify performance indicators exposed to a tenant | Huawei | revised |  | S5-202333 |
| S5-202162 | Rel-16 CR 32.254 Add the Retransmission Indicator | Huawei | revised |  | S5-202417 |
| S5-202163 | Rel-16 CR 32.255 Add the Retransmission Indicator | Huawei | revised |  | S5-202418 |
| S5-202164 | Rel-16 CR 32.256 Add the Retransmission Indicator | Huawei | revised |  | S5-202419 |
| S5-202165 | Rel-16 CR 32.291 Add the Retransmission Indicator in Open API | Huawei | revised |  | S5-202420 |
| S5-202166 | Rel-16 CR 32.254 Correct the message content for NEF charging | Huawei | revised |  | S5-202421 |
| S5-202167 | Rel-16 CR 32.256 Correct the Event offline charging scenarios | Huawei | revised |  | S5-202422 |
| S5-202168 | Rel-16 CR 32.291 Correct the PDU Address | Huawei | not pursued |  |  |
| S5-202169 | Rel-15 CR 32.291 Add the reference about the storage of OPENAPI in FORGE | Huawei | not pursued |  |  |
| S5-202170 | Rel-16 CR 32.291 Add the reference about the storage of OPENAPI in FORGE | Huawei | revised |  | S5-202431 |
| S5-202171 | Rel-15 CR 32.290 Correction on Service Termination | Huawei | not pursued |  |  |
| S5-202172 | Rel-16 CR 32.290 Correction on Service Termination | Huawei | revised |  | S5-202432 |
| S5-202173 | Rel-16 CR 32.255 Add PDU address for IPv6 multi-homing | Huawei | not pursued |  |  |
| S5-202174 | Rel-16 CR 32.291 Add PDU address for IPv6 multi-homing | Huawei | not pursued |  |  |
| S5-202175 | Rel-16 CR 32.298 Add PDU address for IPv6 multi-homing | Huawei | not pursued |  |  |
| S5-202176 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | revised |  | S5-202410 |
| S5-202177 | Rel-16 CR 32.255 Add 5WWC charging information | Huawei | revised |  | S5-202415 |
| S5-202178 | Rel-16 CR 32.255 Add procedure for 5G-RG handover | Huawei | revised |  | S5-202414 |
| S5-202179 | Rel-16 CR 32.255 Add trigger for access network handover | Huawei | not pursued |  |  |
| S5-202180 | Rel-16 CR 32.290 Addition of suspend or resume quota management | Huawei | not pursued |  |  |
| S5-202181 | Rel-16 CR 32.291 Addition of suspend or resume quota management | Huawei | not pursued |  |  |
| S5-202182 | Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202183 | Rel-16 CR TS 28.541 Add NRPhysicalCellDU and NRCarrier NRM to support Multi-SSBs and network sharing | ZTE Corporation | not pursued |  |  |
| S5-202184 | Rel-16 CR 28.623 Correct OpenAPI definition for notificationTypes | Nokia, Nokia Shanghai Bell | revised |  | S5-202375 |
| S5-202185 | CR TS 28.541 Add the NRM fragement for SON management | Huawei, Orange, Intel | revised |  | S5-202330 |
| S5-202186 | CR TS 28.541 ANR management for EN-DC architecture | Huawei | revised |  | S5-202328 |
| S5-202187 | pCR TS 28.313 clarification on RAN-related discriptions of SON management service | Huawei | revised |  | S5-202322 |
| S5-202188 | pCR TS 28.313 Clarification on the D-SON terminologies | Huawei | revised |  | S5-202323 |
| S5-202189 | LS for D-SON management | Huawei | noted |  |  |
| S5-202190 | Discussion paper clarification on network slice related identifiers | Huawei | revised |  | S5-202364 |
| S5-202191 | Rel-16 CR 28.541 Clarification on network slice related identifiers | Huawei | revised |  | S5-202365 |
| S5-202192 | Rel-16 CR 28.530 Clarification on network slice related identifiers | Huawei | revised |  | S5-202366 |
| S5-202193 | Rel-16 CR 28.531 Clarification on network slice related identifiers | Huawei | revised |  | S5-202367 |
| S5-202194 | Rel-16 CR 28.541 Stage 3 update for clarification on network slice related identifiers | Huawei | agreed |  |  |
| S5-202195 | LS to SA2 on network slice identifiers | Huawei | withdrawn |  |  |
| S5-202196 | pCR 28.807 Use PNI-NPN terminology | Huawei | approved |  |  |
| S5-202197 | pCR 28.807 Rapporteur clean up proposal | Huawei | approved |  |  |
| S5-202198 | pCR 28.807 clarification on NPN supported by network slice instance of a PLMN | Huawei, Telefónica S.A. | approved |  |  |
| S5-202199 | pCR 28.807 Add CAG configuration requirement | Huawei | revised |  | S5-202336 |
| S5-202200 | pCR 28.807 Add management requirement | Huawei | revised |  | S5-202337 |
| S5-202201 | Discussion paper on non-binary description of neighbor cell relations | Nokia Germany | withdrawn |  |  |
| S5-202202 | Rel-16 pCR TS 28.535 update of use case in subclause 6.1.1 | HuaWei Technologies Co., Ltd | revised |  | S5-202395 |
| S5-202203 | Rel-16 CR TS 28.622 Add TOP\_ as parent class | ZTE Corporation | revised |  | S5-202376 |
| S5-202204 | Rel-16 CR 28.541 Extend description of NRCellRelation | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-202205 | Discussion paper on non-binary description of neighbor cell relations | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-202206 | Rel-16 CR TS 28.541 Add TOP\_ as parent class | ZTE Corporation | not pursued |  |  |
| S5-202207 | Rel-16 CR TS 28.541 Correct sNSSAI definition in XML solution | ZTE Corporation | revised |  | S5-202380 |
| S5-202208 | R16 CR TS28.552 Add DSS PRB usage measurements | ZTE Corporation, China Telecom | not pursued |  |  |
| S5-202209 | pCR TS 28.313 Management service description | Huawei | noted |  |  |
| S5-202210 | R16 CR TS28.552 Add Initial BWP PRB usage measurements | ZTE Corporation, China Telecom | not pursued |  |  |
| S5-202211 | R16 CR TS28.552 Modify Distribution PRB usage measurements | ZTE Corporation, China Telecom | revised |  | S5-202316 |
| S5-202212 | Update YANG Guidelines | Ericsson Hungary Ltd | revised |  | S5-202381 |
| S5-202213 | Rel-16 CR TS 28.552 Add use case and defintion of the maximum round-trip packet delay between PSA UPF and UE | Huawei | not pursued |  |  |
| S5-202214 | Rel-16 CR TS 28.552 Add use case and definition of the maximum delay of DL air-interface | Huawei | not pursued |  |  |
| S5-202215 | pCR 28.807 Add requirements for management of SNPN and PNI-NPN | Telefónica S.A., Huawei | revised |  | S5-202338 |
| S5-202216 | pCR 28.807 Neutral host in the management of PNI-NPN | Telefónica S.A. | noted |  |  |
| S5-202217 | Rel16 CR 28.533 Add clarifications to description of tenant concept | Telefónica S.A. | revised |  | S5-202331 |
| S5-202218 | Update Clause 4.2 Management control loops | Huawei Technologies (Korea) | noted |  |  |
| S5-202219 | CR TS 28.622 Update concept of ME and MF | Huawei Technologies (Korea) | revised |  | S5-202377 |
| S5-202220 | CR nR16 32.101-f00 Introduction of QMC | Ericsson | revised |  | S5-202301 |
| S5-202221 | pCR R16 28308-030 QMC operations | Ericsson | revised |  | S5-202302 |
| S5-202222 | pCR R16 28.405-120 Update of R16 | Ericsson | revised |  | S5-202453 |
| S5-202223 | Presentation of Specification to TSG: TS 28.307, Version 1.0.0 | Ericsson | approved |  |  |
| S5-202224 | Update clause 6.2 requirements | Huawei Technologies (Korea) | revised |  | S5-202382 |
| S5-202225 | Rel-16 CR 28.532 Add missing callbacks for notifications to ProvMnS | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202226 | Discussion on general CRUD operation for different management purposes | Huawei | noted |  |  |
| S5-202227 | Rel-16 CR TS 28.532 Update the generic provisioning MnS to support different management purposes | Huawei | not pursued |  |  |
| S5-202228 | Rel-16 CR TS 28.550 Add description for configurable PM control MnS | Huawei | not pursued |  |  |
| S5-202229 | Rel-16 CR TS 28.5450 Add description for configurable FM control MnS | Huawei | not pursued |  |  |
| S5-202230 | Rel-16 CR TS 28.532 Remove attribute referenceObjectInstance which is not supported by solution set | Huawei | agreed |  |  |
| S5-202231 | Rel-16 CR TS 28.532 Update URI for generic fault supervision management service | Huawei | revised |  | S5-202361 |
| S5-202232 | Rel-16 CR TS 28.532 Update URI for performance data file reporting service | Huawei | revised |  | S5-202362 |
| S5-202233 | Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei | revised |  | S5-202363 |
| S5-202234 | Rel-16 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei | not pursued |  |  |
| S5-202235 | Rel-16 CR TS 28.622 Update the attribute priorityLabel for several IOCs | Huawei | agreed |  |  |
| S5-202236 | Rel-16 CR TS 28.541 Clarify the NR NRM used for different deployment scenarios | Huawei,China Mobile | revised |  | S5-202379 |
| S5-202237 | pCR TS 28.535 Move Annex A Management control loop in different layers to TS 28.536 | Huawei,China Mobile | revised |  | S5-202340 |
| S5-202238 | pCR TS 28.536 Move and update Annex A Management control loop in different later from TS 28.535 | Huawei,China Mobile | revised |  | S5-202341 |
| S5-202239 | pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels | Huawei,China Mobile | revised |  | S5-202391 |
| S5-202240 | pCR 28.810 Update Clause 5.2 Coverage optimization scenario example for classification of network autonomy levels | Huawei,China Mobile | revised |  | S5-202392 |
| S5-202241 | Rel-16 CR 32.291 Correction of NodeFunctionality | China Mobile Com. Corporation | revised |  | S5-202411 |
| S5-202242 | OAM&P SWG action list | Huawei Technologies (Korea) | noted |  |  |
| S5-202243 | SA5#130e\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM | Huawei Technologies (Korea) | noted |  |  |
| S5-202244 | SA5#130e OAM Exec Report | Huawei Technologies (Korea) | available |  |  |
| S5-202245 | pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network | Huawei,China Telecom | revised | S5-201585 | S5-202329 |
| S5-202246 | pCR 28.810 Update Clause 4.4 Potential dimensions for classification of network autonomy | China Mobile, Huawei | revised |  | S5-202393 |
| S5-202247 | TS28.535 pCR clarify service load in use case fro interaction with core network for service assurance | China Mobile E-Commerce Co., Huawei | revised |  | S5-202383 |
| S5-202248 | TS 28.535 pCR Add business level use case and requirements | China Mobile E-Commerce Co., Huawei | noted |  |  |
| S5-202249 | pCR 28.810 Update Clause 5 Scenarios | China Mobile, Huawei | merged |  | S5-202393 |
| S5-202250 | Discussion on the NRM of MF contains other MF | China Mobile E-Commerce Co., Huawei | noted |  |  |
| S5-202251 | Rel-16 CR 28.532 Remove data object from response types in the ProvMnS | Nokia, Nokia Shanghai Bell | revised |  | S5-202357 |
| S5-202252 | Rel-16 CR 32.255 Correction of Charging Identifier definition | China Mobile Com. Corporation | revised |  | S5-202413 |
| S5-202253 | Rel-16 CR TS 28.622 Updated MF description with nested clarification | China Mobile E-Commerce Co., Huawei | revised |  | S5-202378 |
| S5-202254 | pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for classification of network autonomy | China Mobile, Huawei, CATT | revised |  | S5-202394 |
| S5-202255 | Discussion paper on release planning of GST attributes | Ericsson LM | noted |  |  |
| S5-202256 | CR TS 28.541 Align ServiceProfile with GST Option 1 | Ericsson LM | not pursued |  |  |
| S5-202257 | CR TS 28.541 Align ServiceProfile with GST Option 2 | Ericsson LM | not pursued |  |  |
| S5-202258 | pCR TS 28.536 Communication service assurance stage 2 solution | Ericsson LM | revised |  | S5-202399 |
| S5-202259 | pCR TS 28.536 Assurance data | Ericsson LM | noted |  |  |
| S5-202260 | pCR TS 28.536 Add the procedure of NWDAF assisted SLA assurance | Huawei | noted |  |  |
| S5-202261 | pCR TS 28.536 Add list of interfaces in 4.1.1 | Huawei | noted |  |  |
| S5-202262 | Rel-16 CR 28.541 Add missing notification types to the definition of common notifications | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202263 | DP CHF- controlled quota management impact beyond SMF | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-202264 | Rel-16 CR 32.255 Introduction of MA PDU session indicator | Nokia, Nokia Shanghai Bell | revised |  | S5-202450 |
| S5-202265 | Rel-16 CR 32.255 Clarify ATSSS when same rating group for 3GPP and non-3GPP | Nokia, Nokia Shanghai Bell | revised |  | S5-202451 |
| S5-202266 | Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed Network requested | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202267 | Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed UE requested | Nokia, Nokia Shanghai Bell | revised |  | S5-202452 |
| S5-202268 | Rel-16 CR 32.255 Introduction of ATSSS EPS interworking | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202269 | Rel-16 CR TS 28.541 Update on NRCellDU | Huawei | revised |  | S5-202371 |
| S5-202270 | Rel-15 CR TS 28.541 Update on NRCellDU | Huawei | revised |  | S5-202372 |
| S5-202271 | Rel-16 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | revised |  | S5-202373 |
| S5-202272 | Rel-15 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | revised |  | S5-202374 |
| S5-202273 | pCR 28.807 Additional considerations on NPN | Orange, Telefonica | revised |  | S5-202339 |
| S5-202274 | NWDAF assisted CSI SLS Assurance MnS and Procedure | Samsung Electronics France SA | noted |  |  |
| S5-202275 | CR TS 28.552 editorial correction of TS 28.552 | Huawei | revised |  | S5-202307 |
| S5-202276 | CR TS 28.552 update the definition of UE throughput related measurements | Huawei | revised |  | S5-202315 |
| S5-202277 | Add CHF-Controlled Quota Management functionality | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-202278 | TD proposal for cleanup network slice related definitions | Nokia, Nokia Shanghai Bell, Intel | merged |  | S5-202364 |
| S5-202279 | Fix Network Slice related definitions in OAM space | Nokia, Nokia Shanghai Bell, Intel | revised |  | S5-202366 |
| S5-202280 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-202281 | TD proposal of NRM change to support RIM | Nokia, Nokia Shanghai Bell | revised |  | S5-202369 |
| S5-202282 | new NRM fragment to support RIM stage 2 | Nokia, Nokia Shanghai Bell | revised |  | S5-202370 |
| S5-202283 | new NRM fragment to support RIM stage 3 | Nokia, Nokia Shanghai Bell | revised |  | S5-202342 |
| S5-202284 | Add Quota Management new data types | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-202285 | Rel-15 CR 32.298 Correction ASN.1 imported module version | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202286 | Rel-16 CR 32.298 Correction ASN.1 imported module version | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-202287 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 2 definition | Nokia | revised |  | S5-202385 |
| S5-202288 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 mapping of operations | Nokia | revised |  | S5-202386 |
| S5-202289 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 resources | Nokia | revised |  | S5-202387 |
| S5-202290 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 data types | Nokia | revised |  | S5-202388 |
| S5-202291 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 open API definition | Nokia | revised |  | S5-202389 |
| S5-202292 | Rel-16 CR 28.622 Add trace control NRM fragment stage 2 | Nokia | revised |  | S5-202320 |
| S5-202293 | Rel-16 CR 28.622 Add trace control NRM fragment stage 3 | Nokia | revised |  | S5-202296 |
| S5-202294 | CH Agenda and Time Plan | SA5 Vice Chair (Nokia) | revised |  | S5-202405 |
| S5-202295 | Rel-16 CR 28.622 Fix inconsistent formatting | Nokia | revised |  | S5-202355 |
| S5-202296 | Rel-16 CR 28.623 Add trace control NRM fragment stage 3 | Nokia | revised | S5-202293 | S5-202321 |
| S5-202297 | Update stage3 on the RRMpolicyRatio | Huawei,Ericsson, CATT, China Telecom, China Mobile | agreed |  |  |
| S5-202298 | Rel-16 CR 28.623 Fix inconsistent formatting | Nokia | agreed |  |  |
| S5-202299 | Correct Typos of Reference | Huawei Tech.(UK) Co., Ltd | revised |  | S5-202354 |
| S5-202300 | Reply LS to ONAP on liaison coordinator and VES API reference | Ericsson | approved |  |  |
| S5-202301 | CR nR16 32.101-f00 Introduction of QMC | Ericsson | agreed | S5-202220 |  |
| S5-202302 | pCR R16 28308-030 QMC operations | Ericsson | approved | S5-202221 |  |
| S5-202303 | Replace DN with better identifier for whitelists and blacklists management | Ericsson France S.A.S | agreed | S5-202085 |  |
| S5-202304 | Reply to: LS to SA5 on Reply on QoE Measurement Collection | Ericsson | approved |  |  |
| S5-202305 | Reply to: Resubmitted Reply LS to SA5 on QoE Measurement Collection | Ericsson | approved |  |  |
| S5-202306 | pCR 28.313 revise MRO use case, requirements, information, and procedure | Intel Corporation (UK) Ltd | approved | S5-202041 |  |
| S5-202307 | CR TS 28.552 editorial correction of TS 28.552 | Huawei | revised | S5-202275 | S5-202319 |
| S5-202308 | LS to CT4 on SNSSAI support in N4 Session Establishment | Samsung Electronics France SA | approved | S5-202012 |  |
| S5-202309 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | agreed | S5-202090 |  |
| S5-202310 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | agreed | S5-202091 |  |
| S5-202311 | Add measurement Average RLC packet delay in the UL | Ericsson LM | agreed | S5-202016 |  |
| S5-202312 | Add measurement Average PDCP re-ordering delay in the UL | Ericsson LM | agreed | S5-202017 |  |
| S5-202313 | Rel-16 CR TS 28.552 Update the precision of packet delay | Huawei,Ericsson | agreed | S5-202046 |  |
| S5-202314 | Correction of Downlink latency in gNB-DU KPI | Ericsson LM | agreed | S5-202037 |  |
| S5-202315 | CR TS 28.552 update the definition of UE throughput related measurements | Huawei | agreed | S5-202276 |  |
| S5-202316 | R16 CR TS28.552 Modify Distribution PRB usage measurements | ZTE Corporation, China Telecom | agreed | S5-202211 |  |
| S5-202317 | New measuremenst for average call duration | Nokia Solutions & Networks (I) | agreed | S5-202003 |  |
| S5-202318 | Rel-16 CR TS 28.552 Update the measurements related to the delay of DL air-interface | Huawei | agreed | S5-202045 |  |
| S5-202319 | CR TS 28.552 editorial correction of TS 28.552 | Huawei | agreed | S5-202307 |  |
| S5-202320 | Rel-16 CR 28.622 Add trace control NRM fragment stage 2 | Nokia | agreed | S5-202292 |  |
| S5-202321 | Rel-16 CR 28.623 Add trace control NRM fragment stage 3 | Nokia | agreed | S5-202296 |  |
| S5-202322 | pCR TS 28.313 clarification on RAN-related discriptions of SON management service | Huawei | approved | S5-202187 |  |
| S5-202323 | pCR TS 28.313 Clarification on the D-SON terminologies | Huawei | approved | S5-202188 |  |
| S5-202324 | pCR TS 28.406 Add QoE record contents | Nanjing Ericsson Panda Com Ltd | revised | S5-202011 | S5-202406 |
| S5-202325 | Rel-16 CR 28.552 Add handover measurements related to MRO | Intel Corporation (UK) Ltd | agreed | S5-202044 |  |
| S5-202326 | pCR 28.313 changes to RACH optimization | Intel Corporation (UK) Ltd | approved | S5-202042 |  |
| S5-202327 | pCR 28.313 changes to PCI configuration | Intel Corporation (UK) Ltd | approved | S5-202040 |  |
| S5-202328 | CR TS 28.541 ANR management for EN-DC architecture | Huawei | agreed | S5-202186 |  |
| S5-202329 | pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network | Huawei,China Telecom | approved | S5-202245 |  |
| S5-202330 | CR TS 28.541 Add the NRM fragement for SON management | Huawei, Orange, Intel | agreed | S5-202185 |  |
| S5-202331 | Rel16 CR 28.533 Add clarifications to description of tenant concept | Telefónica S.A. | agreed | S5-202217 |  |
| S5-202332 | Rel-16 CR 28.550 Clarify performance measurement for a tenant | Huawei | agreed | S5-202160 |  |
| S5-202333 | Rel-16 CR 28.552 Clarify performance indicators exposed to a tenant | Huawei | agreed | S5-202161 |  |
| S5-202334 | Rel-16 CR TS 28.530 Extend roles related to 5G networks and network slicing management | Huawei | agreed | S5-202155 |  |
| S5-202335 | Revised WID on enhancement of 3GPP management system for multiple tenant envorinment support | Huawei | agreed | S5-202159 |  |
| S5-202336 | pCR 28.807 Add CAG configuration requirement | Huawei | approved | S5-202199 |  |
| S5-202337 | pCR 28.807 Add management requirement | Huawei | approved | S5-202200 |  |
| S5-202338 | pCR 28.807 Add requirements for management of SNPN and PNI-NPN | Telefónica S.A., Huawei | approved | S5-202215 |  |
| S5-202339 | pCR 28.807 Additional considerations on NPN | Orange, Telefonica | approved | S5-202273 |  |
| S5-202340 | pCR TS 28.535 Move Annex A Management control loop in different layers to TS 28.536 | Huawei,China Mobile | approved | S5-202237 |  |
| S5-202341 | pCR TS 28.536 Move and update Annex A Management control loop in different later from TS 28.535 | Huawei,China Mobile | approved | S5-202238 |  |
| S5-202342 | new NRM fragment to support RIM stage 3 | Nokia, Nokia Shanghai Bell | agreed | S5-202283 |  |
| S5-202343 | draft TS 28.308 | Ericsson | approved |  |  |
| S5-202344 | draft TS 28.406 | Ericsson | approved |  |  |
| S5-202345 | draft TS 28.405 | Ericsson | approved |  |  |
| S5-202346 | draft TS 28.313 | Intel | approved |  |  |
| S5-202347 | draft TS 28.807 | Huawei | approved |  |  |
| S5-202348 | SA5#130e OAM Chair notes and conclusions | WG Chair | available |  |  |
| S5-202349 | Rel-16 CR 28.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | not pursued | S5-202043 |  |
| S5-202350 | Rel-8 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | agreed | S5-202124 |  |
| S5-202351 | Rel-16 CR TS 28.532 Void meaningless clause | AT&T, Orange | agreed | S5-202004 |  |
| S5-202352 | Rel-16 CR TS 28.541 Correction of reference | CATT | agreed | S5-202116 |  |
| S5-202353 | Rel-16 CR 28.658 Update NRM attribute definitions | CATT, Ericsson | agreed | S5-202118 |  |
| S5-202354 | Correct Typos of Reference | Huawei Tech.(UK) Co., Ltd | agreed | S5-202299 |  |
| S5-202355 | Rel-16 CR 28.622 Fix inconsistent formatting | Nokia | agreed | S5-202295 |  |
| S5-202356 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | agreed | S5-202049 |  |
| S5-202357 | Rel-16 CR 28.532 Remove data object from response types in the ProvMnS | Nokia, Nokia Shanghai Bell | agreed | S5-202251 |  |
| S5-202358 | Rel-16 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | agreed | S5-202148 |  |
| S5-202359 | Rel-16 CR TS 28.531 fix NSI activation and deactivation use case | Huawei | agreed | S5-202149 |  |
| S5-202360 | Rel-15 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | agreed | S5-202150 |  |
| S5-202361 | Rel-16 CR TS 28.532 Update URI for generic fault supervision management service | Huawei | agreed | S5-202231 |  |
| S5-202362 | Rel-16 CR TS 28.532 Update URI for performance data file reporting service | Huawei | agreed | S5-202232 |  |
| S5-202363 | Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei | agreed | S5-202233 |  |
| S5-202364 | Discussion paper clarification on network slice related identifiers | Huawei, Nokia, Nokia Shanghai Bell | endorsed | S5-202190 |  |
| S5-202365 | Rel-16 CR 28.541 Clarification on network slice related identifiers | Huawei, Nokia, Nokia Shanghai Bell | agreed | S5-202191 |  |
| S5-202366 | Fix Network Slice related definitions in OAM space | Nokia, Nokia Shanghai Bell, Intel, Huawei | agreed | S5-202279 |  |
| S5-202367 | Rel-16 CR 28.531 Clarification on network slice related identifiers | Huawei | agreed | S5-202193 |  |
| S5-202368 | Rel-16 CR TS 28.541 Update on RRMPolicyRatio | Huawei, Ericsson,CATT,China Telecom, China Mobile | agreed | S5-202034 |  |
| S5-202369 | TD proposal of NRM change to support RIM | Nokia, Nokia Shanghai Bell | endorsed | S5-202281 |  |
| S5-202370 | new NRM fragment to support RIM stage 2 | Nokia, Nokia Shanghai Bell | agreed | S5-202282 |  |
| S5-202371 | Rel-16 CR TS 28.541 Update on NRCellDU | Huawei | agreed | S5-202269 |  |
| S5-202372 | Rel-15 CR TS 28.541 Update on NRCellDU | Huawei | agreed | S5-202270 |  |
| S5-202373 | Rel-16 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | agreed | S5-202271 |  |
| S5-202374 | Rel-15 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | agreed | S5-202272 |  |
| S5-202375 | Rel-16 CR 28.623 Correct OpenAPI definition for notificationTypes | Nokia, Nokia Shanghai Bell | agreed | S5-202184 |  |
| S5-202376 | Rel-16 CR TS 28.622 Add TOP\_ as parent class | ZTE Corporation | agreed | S5-202203 |  |
| S5-202377 | CR TS 28.622 Update concept of ME and MF | Huawei Technologies (Korea) | agreed | S5-202219 |  |
| S5-202378 | Rel-16 CR TS 28.622 Updated MF description with nested clarification | China Mobile E-Commerce Co., Huawei | agreed | S5-202253 |  |
| S5-202379 | Rel-16 CR TS 28.541 Clarify the NR NRM used for different deployment scenarios | Huawei,China Mobile | agreed | S5-202236 |  |
| S5-202380 | Rel-16 CR TS 28.541 Correct sNSSAI definition in XML solution | ZTE Corporation | agreed | S5-202207 |  |
| S5-202381 | Update YANG Guidelines | Ericsson Hungary Ltd | agreed | S5-202212 |  |
| S5-202382 | Update clause 6.2 requirements | Huawei Technologies (Korea) | approved | S5-202224 |  |
| S5-202383 | TS28.535 pCR clarify service load in use case fro interaction with core network for service assurance | China Mobile E-Commerce Co., Huawei | approved | S5-202247 |  |
| S5-202384 | Discussion paper on CSI clarification in close loop control context | Huawei | endorsed | S5-202154 |  |
| S5-202385 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 2 definition | Nokia | agreed | S5-202287 |  |
| S5-202386 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 mapping of operations | Nokia | agreed | S5-202288 |  |
| S5-202387 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 resources | Nokia | agreed | S5-202289 |  |
| S5-202388 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 data types | Nokia | agreed | S5-202290 |  |
| S5-202389 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 open API definition | Nokia | agreed | S5-202291 |  |
| S5-202390 | pCR 28.810 Update capacity optimization scenario example for network autonomy level | CATT, China Mobile,Huawei | approved | S5-202119 |  |
| S5-202391 | pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels | Huawei,China Mobile | approved | S5-202239 |  |
| S5-202392 | pCR 28.810 Update Clause 5.2 Coverage optimization scenario example for classification of network autonomy levels | Huawei,China Mobile | approved | S5-202240 |  |
| S5-202393 | pCR 28.810 Update Clause 4.4 Potential dimensions for classification of network autonomy | China Mobile, Huawei | approved | S5-202246 |  |
| S5-202394 | pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for classification of network autonomy | China Mobile, Huawei, CATT | approved | S5-202254 |  |
| S5-202395 | Rel-16 pCR TS 28.535 update of use case in subclause 6.1.1 | HuaWei Technologies Co., Ltd | approved | S5-202202 |  |
| S5-202396 | draft TR 28.810 | China mobile | approved |  |  |
| S5-202397 | draft TS 28.535 | Ericsson | approved |  |  |
| S5-202398 | draft TS 28.536 | Ericsson | approved |  |  |
| S5-202399 | pCR TS 28.536 Communication service assurance stage 2 solution | Ericsson LM,Nokia,Deutsche Telekom | approved | S5-202258 |  |
| S5-202400 | Charging architecture for Network Slice Charging in 5GS | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-202401 | Rel-16 CR 32.255 Correction of Serving Network Function Functionality for I-SMF | China Mobile Com. Corporation | revised |  | S5-202412 |
| S5-202402 | Rel-15 CR 32.298 Correction of startOfServiceDataFlowNoSession naming | Ericsson LM | agreed |  |  |
| S5-202403 | Draft TS 28.201 | Huawei | approved |  |  |
| S5-202404 | Draft TS 28.202 | Nokia | approved |  |  |
| S5-202405 | CH Agenda and Time Plan | SA5 Vice Chair (Nokia) | approved | S5-202294 |  |
| S5-202406 | pCR TS 28.406 Add QoE record contents | Nanjing Ericsson Panda Com Ltd | approved | S5-202324 |  |
| S5-202410 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | agreed | S5-202176 |  |
| S5-202411 | Rel-16 CR 32.291 Correction of NodeFunctionality | China Mobile Com. Corporation | agreed | S5-202241 |  |
| S5-202412 | Rel-16 CR 32.255 Correction of Serving Network Function Functionality for I-SMF | China Mobile Com. Corporation | agreed | S5-202401 |  |
| S5-202413 | Rel-16 CR 32.255 Correction of Charging Identifier definition | China Mobile Com. Corporation | agreed | S5-202252 |  |
| S5-202414 | Rel-16 CR 32.255 Add procedure for 5G-RG handover | Huawei | agreed | S5-202178 |  |
| S5-202415 | Rel-16 CR 32.255 Add 5WWC charging information | Huawei | agreed | S5-202177 |  |
| S5-202416 | Rel-16 pCR 28.201 Add charging requirements | Huawei | withdrawn | - |  |
| S5-202417 | Rel-16 CR 32.254 Add the Retransmission Indicator | Huawei | agreed | S5-202162 |  |
| S5-202418 | Rel-16 CR 32.255 Add the Retransmission Indicator | Huawei | agreed | S5-202163 |  |
| S5-202419 | Rel-16 CR 32.256 Add the Retransmission Indicator | Huawei | agreed | S5-202164 |  |
| S5-202420 | Rel-16 CR 32.291 Add the Retransmission Indicator in Open API | Huawei | agreed | S5-202165 |  |
| S5-202421 | Rel-16 CR 32.254 Correct the message content for NEF charging | Huawei | agreed | S5-202166 |  |
| S5-202422 | Rel-16 CR 32.256 Correct the Event offline charging scenarios | Huawei | agreed | S5-202167 |  |
| S5-202423 | Rel-16 pCR 28.201 Remove the editor's note in clause 5.2.1.1 | Huawei | approved | S5-202142 |  |
| S5-202424 | Rel-16 pCR 28.201 Remove the editor's note in clause 5.1.5 | Huawei | approved | S5-202141 |  |
| S5-202425 | Rel-16 pCR 28.201 Add the general message flows description in clause 5.2 | Huawei | approved | S5-202135 |  |
| S5-202426 | Rel-16 pCR 28.202 Create initial text for the Scope clause | Openet Telecom | approved | S5-202039 |  |
| S5-202427 | Rel-16 pCR 28.201 Add the NWDAF and MnS producer message flows description | Huawei | approved | S5-202136 |  |
| S5-202428 | Rel-16 pCR 28.201 Add detailed message format for converged charging | Huawei | approved | S5-202139 |  |
| S5-202429 | Rel-16 pCR 28.201 Remove the editor's note in clause 4 | Huawei | approved | S5-202140 |  |
| S5-202430 | Rel-16 pCR 28.201 Add the Network slice performance and analytics CHF CDR data | Huawei | approved | S5-202138 |  |
| S5-202431 | Rel-16 CR 32.291 Add the reference about the storage of OPENAPI in FORGE | Huawei | agreed | S5-202170 |  |
| S5-202432 | Rel-16 CR 32.290 Correction on Service Termination | Huawei | agreed | S5-202172 |  |
| S5-202433 | Rel-16 CR 32.291 Missing network slice info for QBC | Ericsson | not pursued | S5-202065 |  |
| S5-202434 | Rel-16 CR 32.298 Missing I-SMF as network function | Ericsson | agreed | S5-202072 |  |
| S5-202435 | Rel-16 CR 32.298 Missing QoS characteristics in QFI container | Ericsson | agreed | S5-202073 |  |
| S5-202436 | Rel-16 CR 32.298 Missing time in QFI container | Ericsson | agreed | S5-202074 |  |
| S5-202437 | Rel-16 CR 32.291 Missing event limit in trigger type | Ericsson | agreed | S5-202075 |  |
| S5-202438 | Rel-16 pCR 28.201 Add the Charging Data request and response | Huawei | approved | S5-202137 |  |
| S5-202439 | Rel-16 pCR 28.201 Introduction of flows for NWDAF for subscribing to analytics information | Ericsson | approved | S5-202079 |  |
| S5-202440 | Rel-16 pCR 28.201 Update of triggers | Ericsson | approved | S5-202081 |  |
| S5-202441 | Rel-16 pCR 28.202 Introduce symbols abbreviations and references | Nokia, Nokia Shanghai Bell | approved | S5-202093 |  |
| S5-202442 | Rel-16 pCR 28.202 Introduce Architecture | Nokia, Nokia Shanghai Bell | approved | S5-202094 |  |
| S5-202443 | Rel-16 pCR 28.202 Introduce Charging Principles | Nokia, Nokia Shanghai Bell | approved | S5-202095 |  |
| S5-202444 | Rel-16 pCR 28.202 Introduce NS management Charging scenarios principles | Nokia, Nokia Shanghai Bell | approved | S5-202096 |  |
| S5-202445 | Rel-16 pCR 28.202 Introduce NS management charging triggers and flows | Nokia, Nokia Shanghai Bell | approved | S5-202097 |  |
| S5-202446 | Rel-16 pCR 28.202 Introduce CDR generation | Nokia, Nokia Shanghai Bell | approved | S5-202098 |  |
| S5-202447 | Rel-16 pCR 28.202 Introduce Message content | Nokia, Nokia Shanghai Bell | approved | S5-202099 |  |
| S5-202448 | Rel-16 pCR 28.202 Introduce NS management charging information | Nokia, Nokia Shanghai Bell | approved | S5-202100 |  |
| S5-202449 | S5-201156 Rel-16 CR 32.255 Introduction of ATSSS triggers | Nokia, Nokia Shanghai Bell | agreed | S5-202007 |  |
| S5-202450 | Rel-16 CR 32.255 Introduction of MA PDU session indicator | Nokia, Nokia Shanghai Bell | agreed | S5-202264 |  |
| S5-202451 | Rel-16 CR 32.255 Clarify ATSSS when same rating group for 3GPP and non-3GPP | Nokia, Nokia Shanghai Bell | agreed | S5-202265 |  |
| S5-202452 | Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed UE requested | Nokia, Nokia Shanghai Bell | agreed | S5-202267 |  |
| S5-202453 | pCR R16 28.405-120 Update of R16 | Ericsson | approved | S5-202222 | - |
| S5-202455 | Rel 15 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | agreed | S5-202008 | - |
| S5-202456 | Rel 16 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | agreed | S5-202009 | - |
| S5-202457 | Discussion paper on QoS requirements for OAM and Charging traffic on IAB | Intel Finland Oy | endorsed | S5-202087 | - |
| S5-202458 | LS to SA2 on QoS requirements for OAM traffic on IAB | Intel | approved | - | - |
| S5-202459 | Add QoE Specifications | Oy LM Ericsson AB | agreed | S5-202112 | - |
| S5-202460 | Post SA5#130e Email approval status | WG Chair | available | - | - |
| S5-202461 | Rel-16 CR 32.298 Correction of startOfServiceDataFlowNoSession naming | Ericsson | agreed | S5-202069 | - |

## Annex B: List of change requests

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Document | 1. Title | 1. Source | 1. Spec | 1. CR | 1. Rev | 1. Rel | 1. Cat | 1. WI | 1. Decision |
| S5-202146 | Rel-16 CR TS 28.530 Fix inconsistencies | Huawei | 28.530 | 0021 | - | Rel-16 | F | eNRM | not pursued |
| S5-202155 | Rel-16 CR TS 28.530 Extend roles related to 5G networks and network slicing management | Huawei | 28.530 | 0022 | - | Rel-16 | B | MEMTANE | revised |
| S5-202334 | Rel-16 CR TS 28.530 Extend roles related to 5G networks and network slicing management | Huawei | 28.530 | 0022 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-202156 | Rel-16 CR TS 28.530 Update use case exposure of network slice management data for network slice as a service | Huawei | 28.530 | 0023 | - | Rel-16 | B | MEMTANE | not pursued |
| S5-202192 | Rel-16 CR 28.530 Clarification on network slice related identifiers | Huawei | 28.530 | 0024 | - | Rel-16 | F | eNRM | revised |
| S5-202279 | Fix Network Slice related definitions in OAM space | Nokia, Nokia Shanghai Bell, Intel | 28.530 | 0025 | - | Rel-16 | F | TEI16 | revised |
| S5-202366 | Fix Network Slice related definitions in OAM space | Nokia, Nokia Shanghai Bell, Intel, Huawei | 28.530 | 0025 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202280 | Cleanup network slice instance | Nokia, Nokia Shanghai Bell | 28.530 | 0026 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202145 | Rel-16 CR TS 28.531 Fix inconsistencies | Huawei | 28.531 | 0043 | - | Rel-16 | F | eNRM | not pursued |
| S5-202148 | Rel-16 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | 28.531 | 0044 | - | Rel-16 | A | NETSLICE-PRO\_NS | revised |
| S5-202358 | Rel-16 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | 28.531 | 0044 | 1 | Rel-16 | A | NETSLICE-PRO\_NS | agreed |
| S5-202149 | Rel-16 CR TS 28.531 fix NSI activation and deactivation use case | Huawei | 28.531 | 0045 | - | Rel-16 | F | NETSLICE-PRO\_NS | revised |
| S5-202359 | Rel-16 CR TS 28.531 fix NSI activation and deactivation use case | Huawei | 28.531 | 0045 | 1 | Rel-16 | F | NETSLICE-PRO\_NS | agreed |
| S5-202150 | Rel-15 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | 28.531 | 0046 | - | Rel-15 | F | NETSLICE-PRO\_NS | revised |
| S5-202360 | Rel-15 CR TS 28.531 fix Network Slice subnet termination use case | Huawei | 28.531 | 0046 | 1 | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-202193 | Rel-16 CR 28.531 Clarification on network slice related identifiers | Huawei | 28.531 | 0047 | - | Rel-16 | F | eNRM | revised |
| S5-202367 | Rel-16 CR 28.531 Clarification on network slice related identifiers | Huawei | 28.531 | 0047 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202049 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0100 | 2 | Rel-16 | F | REST\_SS | revised |
| S5-202356 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0100 | 3 | Rel-16 | F | REST\_SS | agreed |
| S5-202050 | Rel-16 CR 28.532 Remove subscribe and unsubscribe operation from ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0102 | 1 | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-202004 | Rel-16 CR TS 28.532 Void meaningless clause | AT&T, Orange | 28.532 | 0107 | - | Rel-16 | F | TEI16 | revised |
| S5-202351 | Rel-16 CR TS 28.532 Void meaningless clause | AT&T, Orange | 28.532 | 0107 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202086 | YANG-Push Notifications | Ericsson Hungary Ltd | 28.532 | 0108 | - | Rel-16 | B | eNRM | not pursued |
| S5-202114 | Add missing notification attributes for Matching-Criteria-Attributes | Oy LM Ericsson AB | 28.532 | 0109 | - | Rel-15 | F | TEI15 | not pursued |
| S5-202115 | Add missing notification attributes for Matching-Criteria-Attributes | Oy LM Ericsson AB | 28.532 | 0110 | - | Rel-16 | A | TEI15 | not pursued |
| S5-202225 | Rel-16 CR 28.532 Add missing callbacks for notifications to ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0111 | - | Rel-16 | F | TEI16,REST\_SS | agreed |
| S5-202227 | Rel-16 CR TS 28.532 Update the generic provisioning MnS to support different management purposes | Huawei | 28.532 | 0112 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202230 | Rel-16 CR TS 28.532 Remove attribute referenceObjectInstance which is not supported by solution set | Huawei | 28.532 | 0113 | - | Rel-16 | F | TEI16 | agreed |
| S5-202231 | Rel-16 CR TS 28.532 Update URI for generic fault supervision management service | Huawei | 28.532 | 0114 | - | Rel-16 | F | TEI16 | revised |
| S5-202361 | Rel-16 CR TS 28.532 Update URI for generic fault supervision management service | Huawei | 28.532 | 0114 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202232 | Rel-16 CR TS 28.532 Update URI for performance data file reporting service | Huawei | 28.532 | 0115 | - | Rel-16 | F | TEI16 | revised |
| S5-202362 | Rel-16 CR TS 28.532 Update URI for performance data file reporting service | Huawei | 28.532 | 0115 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202251 | Rel-16 CR 28.532 Remove data object from response types in the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0116 | - | Rel-16 | F | REST\_SS | revised |
| S5-202357 | Rel-16 CR 28.532 Remove data object from response types in the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0116 | 1 | Rel-16 | F | REST\_SS | agreed |
| S5-202287 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 2 definition | Nokia | 28.532 | 0117 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202385 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 2 definition | Nokia | 28.532 | 0117 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202288 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 mapping of operations | Nokia | 28.532 | 0118 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202386 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 mapping of operations | Nokia | 28.532 | 0118 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202289 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 resources | Nokia | 28.532 | 0119 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202387 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 resources | Nokia | 28.532 | 0119 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202290 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 data types | Nokia | 28.532 | 0120 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202388 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 data types | Nokia | 28.532 | 0120 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202291 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 open API definition | Nokia | 28.532 | 0121 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202389 | Rel-16 CR 28.532 Add streaming trace data reporting service stage 3 open API definition | Nokia | 28.532 | 0121 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202152 | Rel-16 CR TS 28.533 Clarify the MnS producer profile | Huawei | 28.533 | 0066 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-202157 | Rel-16 CR TS 28.533 Clarify management framework support in multiple tenant environment | Huawei | 28.533 | 0067 | - | Rel-16 | B | MEMTANE | merged |
| S5-202217 | Rel16 CR 28.533 Add clarifications to description of tenant concept | Telefónica S.A. | 28.533 | 0068 | - | Rel-16 | B | MEMTANE | revised |
| S5-202331 | Rel16 CR 28.533 Add clarifications to description of tenant concept | Telefónica S.A. | 28.533 | 0068 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-202034 | Rel-16 CR TS 28.541 Update on RRMPolicyRatio | Huawei, Ericsson,CATT,China Telecom, China Mobile | 28.541 | 0259 | - | Rel-16 | F | eNRM | revised |
| S5-202368 | Rel-16 CR TS 28.541 Update on RRMPolicyRatio | Huawei, Ericsson,CATT,China Telecom, China Mobile | 28.541 | 0259 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202085 | Replace DN with better identifier for whitelists and blacklists management | Ericsson France S.A.S | 28.541 | 0260 | - | Rel-16 | F | SON\_5G | revised |
| S5-202303 | Replace DN with better identifier for whitelists and blacklists management | Ericsson France S.A.S | 28.541 | 0260 | 1 | Rel-16 | F | SON\_5G | agreed |
| S5-202101 | Rel-16 CR 28.541 Add IOC for control of QoS monitoring per QoS flow per UE | Intel Finland Oy | 28.541 | 0261 | - | Rel-16 | B | eNRM | agreed |
| S5-202103 | Rel-16 CR 28.541 Add IOC for control of GTP-U path QoS monitoring | Intel Finland Oy | 28.541 | 0262 | - | Rel-16 | B | eNRM | agreed |
| S5-202116 | Rel-16 CR TS 28.541 Correction of reference | CATT | 28.541 | 0263 | - | Rel-16 | F | eNRM | revised |
| S5-202352 | Rel-16 CR TS 28.541 Correction of reference | CATT | 28.541 | 0263 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202117 | Rel-16 CR 28.541 Update NRM attribute definitions | CATT, Ericsson | 28.541 | 0264 | - | Rel-16 | F | eNRM | merged |
| S5-202158 | Rel-16 CR TS 28.541 Add tenantList attribute to ServiceProfile | Huawei | 28.541 | 0265 | - | Rel-16 | B | MEMTANE | not pursued |
| S5-202183 | Rel-16 CR TS 28.541 Add NRPhysicalCellDU and NRCarrier NRM to support Multi-SSBs and network sharing | ZTE Corporation | 28.541 | 0266 | - | Rel-16 | B | eNRM | not pursued |
| S5-202185 | CR TS 28.541 Add the NRM fragement for SON management | Huawei, Orange, Intel | 28.541 | 0267 | - | Rel-16 | B | SON\_5G | revised |
| S5-202330 | CR TS 28.541 Add the NRM fragement for SON management | Huawei, Orange, Intel | 28.541 | 0267 | 1 | Rel-16 | B | SON\_5G | agreed |
| S5-202186 | CR TS 28.541 ANR management for EN-DC architecture | Huawei | 28.541 | 0268 | - | Rel-16 | B | SON\_5G | revised |
| S5-202328 | CR TS 28.541 ANR management for EN-DC architecture | Huawei | 28.541 | 0268 | 1 | Rel-16 | B | SON\_5G | agreed |
| S5-202191 | Rel-16 CR 28.541 Clarification on network slice related identifiers | Huawei | 28.541 | 0269 | - | Rel-16 | F | eNRM | revised |
| S5-202365 | Rel-16 CR 28.541 Clarification on network slice related identifiers | Huawei, Nokia, Nokia Shanghai Bell | 28.541 | 0269 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202194 | Rel-16 CR 28.541 Stage 3 update for clarification on network slice related identifiers | Huawei | 28.541 | 0270 | - | Rel-16 | F | eNRM | agreed |
| S5-202201 | Discussion paper on non-binary description of neighbor cell relations | Nokia Germany | 28.541 | 0271 | - | Rel-16 | B | eNRM | withdrawn |
| S5-202204 | Rel-16 CR 28.541 Extend description of NRCellRelation | Nokia, Nokia Shanghai Bell | 28.541 | 0272 | - | Rel-16 | B | eNRM | not pursued |
| S5-202206 | Rel-16 CR TS 28.541 Add TOP\_ as parent class | ZTE Corporation | 28.541 | 0273 | - | Rel-16 | F | eNRM | not pursued |
| S5-202207 | Rel-16 CR TS 28.541 Correct sNSSAI definition in XML solution | ZTE Corporation | 28.541 | 0274 | - | Rel-16 | F | eNRM | revised |
| S5-202380 | Rel-16 CR TS 28.541 Correct sNSSAI definition in XML solution | ZTE Corporation | 28.541 | 0274 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202236 | Rel-16 CR TS 28.541 Clarify the NR NRM used for different deployment scenarios | Huawei,China Mobile | 28.541 | 0275 | - | Rel-16 | F | eNRM | revised |
| S5-202379 | Rel-16 CR TS 28.541 Clarify the NR NRM used for different deployment scenarios | Huawei,China Mobile | 28.541 | 0275 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202256 | CR TS 28.541 Align ServiceProfile with GST Option 1 | Ericsson LM | 28.541 | 0276 | - | Rel-16 | F | MA5SLA | not pursued |
| S5-202257 | CR TS 28.541 Align ServiceProfile with GST Option 2 | Ericsson LM | 28.541 | 0277 | - | Rel-16 | F | MA5SLA | not pursued |
| S5-202262 | Rel-16 CR 28.541 Add missing notification types to the definition of common notifications | Nokia, Nokia Shanghai Bell | 28.541 | 0278 | - | Rel-16 | F | eNRM | agreed |
| S5-202269 | Rel-16 CR TS 28.541 Update on NRCellDU | Huawei | 28.541 | 0279 | - | Rel-16 | F | eNRM | revised |
| S5-202371 | Rel-16 CR TS 28.541 Update on NRCellDU | Huawei | 28.541 | 0279 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202270 | Rel-15 CR TS 28.541 Update on NRCellDU | Huawei | 28.541 | 0280 | - | Rel-15 | A | eNRM | revised |
| S5-202372 | Rel-15 CR TS 28.541 Update on NRCellDU | Huawei | 28.541 | 0280 | 1 | Rel-15 | A | eNRM | agreed |
| S5-202271 | Rel-16 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | 28.541 | 0281 | - | Rel-16 | F | eNRM | revised |
| S5-202373 | Rel-16 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | 28.541 | 0281 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202272 | Rel-15 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | 28.541 | 0282 | - | Rel-15 | A | eNRM | revised |
| S5-202374 | Rel-15 CR TS 28.541 Update Clause 4.2.1.2 Inheritance UML diagram | Huawei | 28.541 | 0282 | 1 | Rel-15 | A | eNRM | agreed |
| S5-202282 | new NRM fragment to support RIM stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0283 | - | Rel-16 | B | eNRM | revised |
| S5-202370 | new NRM fragment to support RIM stage 2 | Nokia, Nokia Shanghai Bell | 28.541 | 0283 | 1 | Rel-16 | B | eNRM | agreed |
| S5-202283 | new NRM fragment to support RIM stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0284 | - | Rel-16 | B | eNRM | revised |
| S5-202342 | new NRM fragment to support RIM stage 3 | Nokia, Nokia Shanghai Bell | 28.541 | 0284 | 1 | Rel-16 | B | eNRM | agreed |
| S5-202297 | Update stage3 on the RRMpolicyRatio | Huawei,Ericsson, CATT, China Telecom, China Mobile | 28.541 | 0285 | - | Rel-16 | F | eNRM | agreed |
| S5-202229 | Rel-16 CR TS 28.5450 Add description for configurable FM control MnS | Huawei | 28.545 | 0004 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202088 | Rel-15 CR 28.550 Add service components for configurable performance measurement control | Intel Finland Oy | 28.550 | 0049 | - | Rel-15 | F | NETSLICE-ADPM5G | not pursued |
| S5-202089 | Rel-16 CR 28.550 Add service components for configurable performance measurement control | Intel Finland Oy | 28.550 | 0050 | - | Rel-16 | A | NETSLICE-ADPM5G | not pursued |
| S5-202147 | Rel-16 CR 28.550 Correct Typos of Reference | Huawei | 28.550 | 0051 | - | Rel-16 | F | NETSLICE-ADPM5G | withdrawn |
| S5-202160 | Rel-16 CR 28.550 Clarify performance measurement for a tenant | Huawei | 28.550 | 0052 | - | Rel-16 | B | MEMTANE | revised |
| S5-202332 | Rel-16 CR 28.550 Clarify performance measurement for a tenant | Huawei | 28.550 | 0052 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-202228 | Rel-16 CR TS 28.550 Add description for configurable PM control MnS | Huawei | 28.550 | 0053 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202299 | Correct Typos of Reference | Huawei Tech.(UK) Co., Ltd | 28.550 | 0054 | - | Rel-16 | F | NETSLICE-ADPM5G | revised |
| S5-202354 | Correct Typos of Reference | Huawei Tech.(UK) Co., Ltd | 28.550 | 0054 | 1 | Rel-16 | F | NETSLICE-ADPM5G | agreed |
| S5-202090 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | 28.552 | 0191 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-202309 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | 28.552 | 0191 | 3 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202091 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | 28.552 | 0192 | 2 | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-202310 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd, ETRI | 28.552 | 0192 | 3 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202003 | New measuremenst for average call duration | Nokia Solutions & Networks (I) | 28.552 | 0201 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-202317 | New measuremenst for average call duration | Nokia Solutions & Networks (I) | 28.552 | 0201 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202008 | Rel 15 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | 28.552 | 0202 | - | Rel-15 | F | 5G\_SLICE\_ePA | revised |
| S5-202455 | Rel 15 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | 28.552 | 0202 | 1 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-202009 | Rel 16 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | 28.552 | 0203 | - | Rel-16 | A | 5G\_SLICE\_ePA | revised |
| S5-202456 | Rel 16 CR Adding Per Slice N3 Measurements | Samsung Electronics France SA | 28.552 | 0203 | 1 | Rel-16 | A | 5G\_SLICE\_ePA | agreed |
| S5-202014 | Corrections of Number of Active UEs measurements | Ericsson LM | 28.552 | 0204 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202015 | Correction of Average delay UL on over-the-air interface measurement | Ericsson LM | 28.552 | 0205 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202016 | Add measurement Average RLC packet delay in the UL | Ericsson LM | 28.552 | 0206 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-202311 | Add measurement Average RLC packet delay in the UL | Ericsson LM | 28.552 | 0206 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202017 | Add measurement Average PDCP re-ordering delay in the UL | Ericsson LM | 28.552 | 0207 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-202312 | Add measurement Average PDCP re-ordering delay in the UL | Ericsson LM | 28.552 | 0207 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202018 | Add Number of stored inactive UE contexts measurements | Ericsson LM | 28.552 | 0208 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202043 | Rel-16 CR 28.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | 28.552 | 0209 | - | Rel-16 | B | SON\_5G | revised |
| S5-202349 | Rel-16 CR 28.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | 28.552 | 0209 | 1 | Rel-16 | B | SON\_5G | not pursued |
| S5-202044 | Rel-16 CR 28.552 Add handover measurements related to MRO | Intel Corporation (UK) Ltd | 28.552 | 0210 | - | Rel-16 | B | SON\_5G | revised |
| S5-202325 | Rel-16 CR 28.552 Add handover measurements related to MRO | Intel Corporation (UK) Ltd | 28.552 | 0210 | 1 | Rel-16 | B | SON\_5G | agreed |
| S5-202045 | Rel-16 CR TS 28.552 Update the measurements related to the delay of DL air-interface | Huawei | 28.552 | 0211 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202318 | Rel-16 CR TS 28.552 Update the measurements related to the delay of DL air-interface | Huawei | 28.552 | 0211 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202046 | Rel-16 CR TS 28.552 Update the precision of packet delay | Huawei | 28.552 | 0212 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202313 | Rel-16 CR TS 28.552 Update the precision of packet delay | Huawei,Ericsson | 28.552 | 0212 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202047 | Rel-16 CR TS 28.552 Move the network slice related measurements to clause 6 | Huawei | 28.552 | 0213 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-202048 | Rel-16 CR TS 28.552 add the referrence to slice related measurements in clause 6 | Huawei | 28.552 | 0214 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-202105 | Rel-16 CR 28.552 Add measurements on DL packet delay between NG-RAN and UE | Intel Finland Oy | 28.552 | 0215 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202106 | Rel-16 CR 28.552 Add measurements on UL packet delay between NG-RAN and UE | Intel Finland Oy | 28.552 | 0216 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202108 | Rel-16 CR 28.552 Add measurements on DL packet delay in NG-RAN for Network Slice | Intel Finland Oy | 28.552 | 0217 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202109 | Rel-16 CR 28.552 Add measurements on UL packet delay in NG-RAN for Network Slice | Intel Finland Oy | 28.552 | 0218 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202111 | Rel-16 CR 28.552 Add PCI related measurement of candidate cells | Intel Corporation (UK) Ltd | 28.552 | 0219 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-202161 | Rel-16 CR 28.552 Clarify performance indicators exposed to a tenant | Huawei | 28.552 | 0220 | - | Rel-16 | B | MEMTANE | revised |
| S5-202333 | Rel-16 CR 28.552 Clarify performance indicators exposed to a tenant | Huawei | 28.552 | 0220 | 1 | Rel-16 | B | MEMTANE | agreed |
| S5-202208 | R16 CR TS28.552 Add DSS PRB usage measurements | ZTE Corporation, China Telecom | 28.552 | 0221 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202210 | R16 CR TS28.552 Add Initial BWP PRB usage measurements | ZTE Corporation, China Telecom | 28.552 | 0222 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202211 | R16 CR TS28.552 Modify Distribution PRB usage measurements | ZTE Corporation, China Telecom | 28.552 | 0223 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-202316 | R16 CR TS28.552 Modify Distribution PRB usage measurements | ZTE Corporation, China Telecom | 28.552 | 0223 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-202213 | Rel-16 CR TS 28.552 Add use case and defintion of the maximum round-trip packet delay between PSA UPF and UE | Huawei | 28.552 | 0224 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202214 | Rel-16 CR TS 28.552 Add use case and definition of the maximum delay of DL air-interface | Huawei | 28.552 | 0225 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202275 | CR TS 28.552 editorial correction of TS 28.552 | Huawei | 28.552 | 0226 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202307 | CR TS 28.552 editorial correction of TS 28.552 | Huawei | 28.552 | 0226 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202319 | CR TS 28.552 editorial correction of TS 28.552 | Huawei | 28.552 | 0226 | 2 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202276 | CR TS 28.552 update the definition of UE throughput related measurements | Huawei | 28.552 | 0227 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202315 | CR TS 28.552 update the definition of UE throughput related measurements | Huawei | 28.552 | 0227 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202005 | Rel 16 CR TS 28.554 Fixing Equations | Samsung Electronics France SA | 28.554 | 0040 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-202006 | Rel 15 CR TS 28.554 Fixing Equations | Samsung Electronics France SA | 28.554 | 0041 | - | Rel-15 | F | 5G\_SLICE\_ePA | not pursued |
| S5-202035 | Add KPI for UL packet delay in NG-RAN | Ericsson LM | 28.554 | 0042 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-202036 | Correction of Integrated downlink delay in RAN KPI | Ericsson LM | 28.554 | 0043 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-202037 | Correction of Downlink latency in gNB-DU KPI | Ericsson LM | 28.554 | 0044 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-202314 | Correction of Downlink latency in gNB-DU KPI | Ericsson LM | 28.554 | 0044 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202038 | Removal of the KPI named KPI categories | Ericsson LM | 28.554 | 0045 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202102 | Update of KPI template | Ericsson LM | 28.554 | 0046 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-202153 | Rel-16 CR TS 28.622 Clarify systemDN usage for MnS producer profile notification | Huawei | 28.622 | 0073 | - | Rel-16 | B | 5GDMS | not pursued |
| S5-202203 | Rel-16 CR TS 28.622 Add TOP\_ as parent class | ZTE Corporation | 28.622 | 0074 | - | Rel-16 | F | eNRM | revised |
| S5-202376 | Rel-16 CR TS 28.622 Add TOP\_ as parent class | ZTE Corporation | 28.622 | 0074 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202219 | CR TS 28.622 Update concept of ME and MF | Huawei Technologies (Korea) | 28.622 | 0075 | - | Rel-16 | F | eNRM | revised |
| S5-202377 | CR TS 28.622 Update concept of ME and MF | Huawei Technologies (Korea) | 28.622 | 0075 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202235 | Rel-16 CR TS 28.622 Update the attribute priorityLabel for several IOCs | Huawei | 28.622 | 0076 | - | Rel-16 | F | eNRM | agreed |
| S5-202253 | Rel-16 CR TS 28.622 Updated MF description with nested clarification | China Mobile E-Commerce Co., Huawei | 28.622 | 0077 | - | Rel-16 | F | eNRM | revised |
| S5-202378 | Rel-16 CR TS 28.622 Updated MF description with nested clarification | China Mobile E-Commerce Co., Huawei | 28.622 | 0077 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202292 | Rel-16 CR 28.622 Add trace control NRM fragment stage 2 | Nokia | 28.622 | 0078 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202320 | Rel-16 CR 28.622 Add trace control NRM fragment stage 2 | Nokia | 28.622 | 0078 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202293 | Rel-16 CR 28.622 Add trace control NRM fragment stage 3 | Nokia | 28.622 | 0079 | - | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202295 | Rel-16 CR 28.622 Fix inconsistent formatting | Nokia | 28.622 | 0080 | - | Rel-16 | D | TEI16 | revised |
| S5-202355 | Rel-16 CR 28.622 Fix inconsistent formatting | Nokia | 28.622 | 0080 | 1 | Rel-16 | D | TEI16 | agreed |
| S5-202182 | Rel-16 CR 28.623 Add OpenAPI definitions for the FM control fragment | Nokia, Nokia Shanghai Bell | 28.623 | 0046 | - | Rel-16 | B | eNRM | agreed |
| S5-202184 | Rel-16 CR 28.623 Correct OpenAPI definition for notificationTypes | Nokia, Nokia Shanghai Bell | 28.623 | 0047 | - | Rel-16 | F | eNRM | revised |
| S5-202375 | Rel-16 CR 28.623 Correct OpenAPI definition for notificationTypes | Nokia, Nokia Shanghai Bell | 28.623 | 0047 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202296 | Rel-16 CR 28.623 Add trace control NRM fragment stage 3 | Nokia | 28.623 | 0079 | 1 | Rel-16 | B | TM\_SBMA, OAM\_RTT | revised |
| S5-202321 | Rel-16 CR 28.623 Add trace control NRM fragment stage 3 | Nokia | 28.623 | 0079 | 2 | Rel-16 | B | TM\_SBMA, OAM\_RTT | agreed |
| S5-202298 | Rel-16 CR 28.623 Fix inconsistent formatting | Nokia | 28.623 | 0080 | - | Rel-16 | D | TEI16 | agreed |
| S5-202118 | Rel-16 CR 28.658 Update NRM attribute definitions | CATT, Ericsson | 28.658 | 0052 | - | Rel-16 | F | eNRM | revised |
| S5-202353 | Rel-16 CR 28.658 Update NRM attribute definitions | CATT, Ericsson | 28.658 | 0052 | 1 | Rel-16 | F | eNRM | agreed |
| S5-202220 | CR nR16 32.101-f00 Introduction of QMC | Ericsson | 32.101 | 0070 | - | Rel-16 | B | QOED | revised |
| S5-202301 | CR nR16 32.101-f00 Introduction of QMC | Ericsson | 32.101 | 0070 | 1 | Rel-16 | B | QOED | agreed |
| S5-202112 | Add QoE Specifications | Oy LM Ericsson AB | 32.103 | 0017 | - | Rel-16 | B | QOED | revised |
| S5-202459 | Add QoE Specifications | Oy LM Ericsson AB | 32.103 | 0017 | 1 | Rel-16 | B | QOED | agreed |
| S5-202233 | Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei | 32.158 | 0012 | - | Rel-15 | F | REST\_SS | revised |
| S5-202363 | Rel-15 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei | 32.158 | 0012 | 1 | Rel-15 | F | REST\_SS | agreed |
| S5-202234 | Rel-16 CR TS 32.158 Add the missing definition for LDN-first-part | Huawei | 32.158 | 0013 | - | Rel-16 | A | REST\_SS | not pursued |
| S5-202212 | Update YANG Guidelines | Ericsson Hungary Ltd | 32.160 | 0008 | - | Rel-16 | B | eNRM | revised |
| S5-202381 | Update YANG Guidelines | Ericsson Hungary Ltd | 32.160 | 0008 | 1 | Rel-16 | B | eNRM | agreed |
| S5-202063 | Rel-16 CR 32.240 Correcting reference point naming for non-5G | Ericsson | 32.240 | 0412 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202162 | Rel-16 CR 32.254 Add the Retransmission Indicator | Huawei | 32.254 | 0011 | - | Rel-16 | F | TEI16 | revised |
| S5-202417 | Rel-16 CR 32.254 Add the Retransmission Indicator | Huawei | 32.254 | 0011 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202166 | Rel-16 CR 32.254 Correct the message content for NEF charging | Huawei | 32.254 | 0012 | - | Rel-16 | F | TEI16 | revised |
| S5-202421 | Rel-16 CR 32.254 Correct the message content for NEF charging | Huawei | 32.254 | 0012 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202414 | Rel-16 CR 32.255 Add procedure for 5G-RG handover | Huawei | 32.255 | - | - | Rel-16 | B | 5WWC | agreed |
| S5-202415 | Rel-16 CR 32.255 Add 5WWC charging information | Huawei | 32.255 | - | - | Rel-16 | B | 5WWC | agreed |
| S5-202007 | S5-201156 Rel-16 CR 32.255 Introduction of ATSSS triggers | Nokia, Nokia Shanghai Bell | 32.255 | 0207 | - | Rel-16 | B | ATSSS | revised |
| S5-202449 | S5-201156 Rel-16 CR 32.255 Introduction of ATSSS triggers | Nokia, Nokia Shanghai Bell | 32.255 | 0207 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-202055 | Rel-16 CR 32.255 Correcting charging characteristics category to mandatory | Ericsson | 32.255 | 0208 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202058 | Rel-16 CR 32.255 Correcting triggers as mandatory for QFI container | Ericsson | 32.255 | 0209 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202060 | Rel-16 CR 32.255 Correcting time and volume as mandatory for Qos flow usage reporting | Ericsson | 32.255 | 0210 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202064 | Rel-16 CR 32.255 Missing network slice instance identifier for QBC | Ericsson | 32.255 | 0211 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202163 | Rel-16 CR 32.255 Add the Retransmission Indicator | Huawei | 32.255 | 0212 | - | Rel-16 | F | TEI16 | revised |
| S5-202418 | Rel-16 CR 32.255 Add the Retransmission Indicator | Huawei | 32.255 | 0212 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202173 | Rel-16 CR 32.255 Add PDU address for IPv6 multi-homing | Huawei | 32.255 | 0213 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202177 | Rel-16 CR 32.255 Add 5WWC charging information | Huawei | 32.255 | 0214 | - | Rel-16 | B | 5WWC | revised |
| S5-202178 | Rel-16 CR 32.255 Add procedure for 5G-RG handover | Huawei | 32.255 | 0215 | - | Rel-16 | B | 5WWC | revised |
| S5-202179 | Rel-16 CR 32.255 Add trigger for access network handover | Huawei | 32.255 | 0216 | - | Rel-16 | B | 5WWC | not pursued |
| S5-202252 | Rel-16 CR 32.255 Correction of Charging Identifier definition | China Mobile Com. Corporation | 32.255 | 0217 | - | Rel-16 | F | 5GIEPC\_CH | revised |
| S5-202413 | Rel-16 CR 32.255 Correction of Charging Identifier definition | China Mobile Com. Corporation | 32.255 | 0217 | 1 | Rel-16 | F | 5GIEPC\_CH | agreed |
| S5-202264 | Rel-16 CR 32.255 Introduction of MA PDU session indicator | Nokia, Nokia Shanghai Bell | 32.255 | 0218 | - | Rel-16 | B | ATSSS | revised |
| S5-202450 | Rel-16 CR 32.255 Introduction of MA PDU session indicator | Nokia, Nokia Shanghai Bell | 32.255 | 0218 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-202265 | Rel-16 CR 32.255 Clarify ATSSS when same rating group for 3GPP and non-3GPP | Nokia, Nokia Shanghai Bell | 32.255 | 0219 | - | Rel-16 | B | ATSSS | revised |
| S5-202451 | Rel-16 CR 32.255 Clarify ATSSS when same rating group for 3GPP and non-3GPP | Nokia, Nokia Shanghai Bell | 32.255 | 0219 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-202266 | Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed Network requested | Nokia, Nokia Shanghai Bell | 32.255 | 0220 | - | Rel-16 | B | ATSSS | agreed |
| S5-202267 | Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed UE requested | Nokia, Nokia Shanghai Bell | 32.255 | 0221 | - | Rel-16 | B | ATSSS | revised |
| S5-202452 | Rel-16 CR 32.255 Introduction of ATSSS Roaming Home Routed UE requested | Nokia, Nokia Shanghai Bell | 32.255 | 0221 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-202268 | Rel-16 CR 32.255 Introduction of ATSSS EPS interworking | Nokia, Nokia Shanghai Bell | 32.255 | 0222 | - | Rel-16 | B | ATSSS | agreed |
| S5-202401 | Rel-16 CR 32.255 Correction of Serving Network Function Functionality for I-SMF | China Mobile Com. Corporation | 32.255 | 0223 | - | Rel-16 | F | ETSUN | revised |
| S5-202412 | Rel-16 CR 32.255 Correction of Serving Network Function Functionality for I-SMF | China Mobile Com. Corporation | 32.255 | 0223 | 1 | Rel-16 | F | ETSUN | agreed |
| S5-202164 | Rel-16 CR 32.256 Add the Retransmission Indicator | Huawei | 32.256 | 0001 | - | Rel-16 | F | TEI16 | revised |
| S5-202419 | Rel-16 CR 32.256 Add the Retransmission Indicator | Huawei | 32.256 | 0001 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202167 | Rel-16 CR 32.256 Correct the Event offline charging scenarios | Huawei | 32.256 | 0002 | - | Rel-16 | F | TEI16 | revised |
| S5-202422 | Rel-16 CR 32.256 Correct the Event offline charging scenarios | Huawei | 32.256 | 0002 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202053 | Rel-16 CR 32.290 Default handling for one time events | Ericsson | 32.290 | 0110 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202062 | Rel-16 CR 32.290 Correction of local sequence number handling | Ericsson | 32.290 | 0111 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202143 | Rel-16 CR 32.290 API definition for network slice performance and analytics charging | Huawei | 32.290 | 0112 | - | Rel-16 | B | 5GS\_NSPACH | not pursued |
| S5-202171 | Rel-15 CR 32.290 Correction on Service Termination | Huawei | 32.290 | 0113 | - | Rel-15 | F | TEI15, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202172 | Rel-16 CR 32.290 Correction on Service Termination | Huawei | 32.290 | 0114 | - | Rel-16 | A | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-202432 | Rel-16 CR 32.290 Correction on Service Termination | Huawei | 32.290 | 0114 | 1 | Rel-16 | A | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-202180 | Rel-16 CR 32.290 Addition of suspend or resume quota management | Huawei | 32.290 | 0115 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-202277 | Add CHF-Controlled Quota Management functionality | Amdocs Software Systems Ltd | 32.290 | 0116 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-202410 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | 32.291 | - | - | Rel-16 | B | 5WWC | agreed |
| S5-202054 | Rel-16 CR 32.291 Default handling for one time events | Ericsson | 32.291 | 0210 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202056 | Rel-16 CR 32.291 Correcting charging characteristics category to mandatory | Ericsson | 32.291 | 0211 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202059 | Rel-16 CR 32.291 Correcting triggers as mandatory for QFI container | Ericsson | 32.291 | 0212 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202061 | Rel-16 CR 32.291 Correcting time and volume as mandatory for Qos flow usage reporting | Ericsson | 32.291 | 0213 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202065 | Rel-16 CR 32.291 Missing network slice info for QBC | Ericsson | 32.291 | 0214 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-202433 | Rel-16 CR 32.291 Missing network slice info for QBC | Ericsson | 32.291 | 0214 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202067 | Rel-15 CR 32.291 Missing AMF as network function | Ericsson | 32.291 | 0215 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-202068 | Rel-16 CR 32.291 Missing AMF as network function | Ericsson | 32.291 | 0216 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-202075 | Rel-16 CR 32.291 Missing event limit in trigger type | Ericsson | 32.291 | 0217 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-202437 | Rel-16 CR 32.291 Missing event limit in trigger type | Ericsson | 32.291 | 0217 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-202076 | Rel-16 CR 32.291 Missing constraint of SMSC Address | Ericsson | 32.291 | 0218 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202077 | Rel-16 CR 32.291 Missing downlink volume in QFI container | Ericsson | 32.291 | 0219 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-202078 | Rel-16 CR 32.291 Correction of content problem, callback and version | Ericsson | 32.291 | 0220 | - | Rel-16 | F | TEI16 | agreed |
| S5-202165 | Rel-16 CR 32.291 Add the Retransmission Indicator in Open API | Huawei | 32.291 | 0221 | - | Rel-16 | F | TEI16 | revised |
| S5-202420 | Rel-16 CR 32.291 Add the Retransmission Indicator in Open API | Huawei | 32.291 | 0221 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-202168 | Rel-16 CR 32.291 Correct the PDU Address | Huawei | 32.291 | 0222 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202169 | Rel-15 CR 32.291 Add the reference about the storage of OPENAPI in FORGE | Huawei | 32.291 | 0223 | - | Rel-15 | F | TEI15 | not pursued |
| S5-202170 | Rel-16 CR 32.291 Add the reference about the storage of OPENAPI in FORGE | Huawei | 32.291 | 0224 | - | Rel-16 | A | TEI16 | revised |
| S5-202431 | Rel-16 CR 32.291 Add the reference about the storage of OPENAPI in FORGE | Huawei | 32.291 | 0224 | 1 | Rel-16 | A | TEI16 | agreed |
| S5-202174 | Rel-16 CR 32.291 Add PDU address for IPv6 multi-homing | Huawei | 32.291 | 0225 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202176 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | 32.291 | 0226 | - | Rel-16 | B | 5WWC | revised |
| S5-202181 | Rel-16 CR 32.291 Addition of suspend or resume quota management | Huawei | 32.291 | 0227 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-202241 | Rel-16 CR 32.291 Correction of NodeFunctionality | China Mobile Com. Corporation | 32.291 | 0228 | - | Rel-16 | F | ETSUN | revised |
| S5-202411 | Rel-16 CR 32.291 Correction of NodeFunctionality | China Mobile Com. Corporation | 32.291 | 0228 | 1 | Rel-16 | F | ETSUN | agreed |
| S5-202284 | Add Quota Management new data types | Amdocs Software Systems Ltd | 32.291 | 0229 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-202057 | Rel-16 CR 32.298 Correcting charging characteristics category to mandatory | Ericsson | 32.298 | 0798 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202066 | Rel-16 CR 32.298 Missing network slice instance identifier for QBC | Ericsson | 32.298 | 0799 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-202069 | Rel-16 CR 32.298 Correction of startOfServiceDataFlowNoSession naming | Ericsson | 32.298 | 0800 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-202461 | Rel-16 CR 32.298 Correction of startOfServiceDataFlowNoSession naming | Ericsson | 32.298 | 0800 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-202070 | Rel-15 CR 32.298 Missing trigger for GFBR guaranteed status change | Ericsson | 32.298 | 0801 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-202071 | Rel-16 CR 32.298 Missing trigger for GFBR guaranteed status change | Ericsson | 32.298 | 0802 | - | Rel-16 | A | 5GS\_Ph1-SBI\_CH | agreed |
| S5-202072 | Rel-16 CR 32.298 Missing I-SMF as network function | Ericsson | 32.298 | 0803 | - | Rel-16 | F | ETSUN | revised |
| S5-202434 | Rel-16 CR 32.298 Missing I-SMF as network function | Ericsson | 32.298 | 0803 | 1 | Rel-16 | F | ETSUN | agreed |
| S5-202073 | Rel-16 CR 32.298 Missing QoS characteristics in QFI container | Ericsson | 32.298 | 0804 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-202435 | Rel-16 CR 32.298 Missing QoS characteristics in QFI container | Ericsson | 32.298 | 0804 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-202074 | Rel-16 CR 32.298 Missing time in QFI container | Ericsson | 32.298 | 0805 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-202436 | Rel-16 CR 32.298 Missing time in QFI container | Ericsson | 32.298 | 0805 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-202120 | Rel-15 CR 32.298 Correction of UserLocationInformation | China Mobile Com. Corporation | 32.298 | 0806 | - | Rel-15 | F | 5GS\_Ph1-DCH | not pursued |
| S5-202121 | Rel-16 CR 32.298 Correction of UserLocationInformation | China Mobile Com. Corporation | 32.298 | 0807 | - | Rel-16 | A | 5GS\_Ph1-DCH | not pursued |
| S5-202175 | Rel-16 CR 32.298 Add PDU address for IPv6 multi-homing | Huawei | 32.298 | 0808 | - | Rel-16 | F | TEI16 | not pursued |
| S5-202285 | Rel-15 CR 32.298 Correction ASN.1 imported module version | Nokia, Nokia Shanghai Bell | 32.298 | 0809 | - | Rel-15 | F | TEI15 | agreed |
| S5-202286 | Rel-16 CR 32.298 Correction ASN.1 imported module version | Nokia, Nokia Shanghai Bell | 32.298 | 0810 | - | Rel-16 | A | TEI15 | agreed |
| S5-202402 | Rel-15 CR 32.298 Correction of startOfServiceDataFlowNoSession naming | Ericsson LM | 32.298 | 0811 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-202113 | Replace Management based MDT Allowed IE with Management based MDT PLMN List IE for MDT user consent handling in NR | Oy LM Ericsson AB | 32.422 | 0321 | - | Rel-16 | F | 5GMDT | agreed |
| S5-202122 | Rel-6 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0102 | - | Rel-6 | F | TEI6 | not pursued |
| S5-202123 | Rel-7 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0103 | - | Rel-7 | A | TEI7 | not pursued |
| S5-202124 | Rel-8 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0104 | - | Rel-8 | A | TEI8 | revised |
| S5-202350 | Rel-8 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0104 | 1 | Rel-8 | F | TEI8 | agreed |
| S5-202125 | Rel-9 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0105 | - | Rel-9 | A | TEI9 | agreed |
| S5-202126 | Rel-10 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0106 | - | Rel-10 | A | TEI10 | agreed |
| S5-202127 | Rel-11 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0107 | - | Rel-11 | A | TEI11 | agreed |
| S5-202128 | Rel-12 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0108 | - | Rel-12 | A | TEI12 | agreed |
| S5-202129 | Rel-13 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0109 | - | Rel-13 | A | TEI13 | agreed |
| S5-202130 | Rel-14 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0110 | - | Rel-14 | A | TEI14 | agreed |
| S5-202131 | Rel-15 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0111 | - | Rel-15 | A | TEI15 | agreed |
| S5-202132 | Rel-16 CR TS 32.423 clean up editor notes | Huawei Technologies (Korea) | 32.423 | 0112 | - | Rel-16 | A | TEI16 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Document | 1. Original | 1. Title | 1. From | 1. Decision | 1. Reply TDoc |
| S5-202019 |  | Resubmitted LS to SA5 on EN-DC related MDT configuration details | R2-1916579 | replied to | S5-202052 |
| S5-202020 |  | Resubmitted LS to SA5 on Reply on QoE Measurement Collection | S4-200241 | replied to | S5-202304 |
| S5-202021 |  | Resubmitted Reply LS to SA5 on QoE Measurement Collection | R2-1916328 | replied to | S5-202305 |
| S5-202022 |  | LS Out to SA2 and SA5 on making PSCELL ID available at the SGW of EPC | ETSI TC LI | postponed | (none) |
| S5-202023 |  | Formation of a new ETSI ISG for the Fifth Generation Fixed Network (F5G) | ETSI ISG F5G | noted | (none) |
| S5-202024 |  | LS reply ccSA5 on initiation of a new work item Y.IMT2020-NSC “IMT-2020 network slice configuration | GSMA | noted | (none) |
| S5-202025 |  | LS to SA5 on EN-DC related MDT configuration details | R2-1916579 | withdrawn | S5-202052 |
| S5-202026 |  | Reply LS to SA5 on CAG definition | R2-2001703 | noted | (none) |
| S5-202027 |  | Reply LS ccSA5 on Information Needed for MRO in UE RLF Report | R2-2002393 | noted | (none) |
| S5-202028 |  | Reply LS to SA5 on QoS monitoring for URLLC | R3-201372 | noted | (none) |
| S5-202029 |  | Reply LS to SA5 on support for eCall over NR | SP-200287 | postponed | (none) |
| S5-202030 |  | LS reply to SA5 on Technical Community Cooperation: Generic Network Management | ONAP | replied to | S5-202300 |
| S5-202031 |  | LS to SA5 on removal of Management Based MDT Allowed IE for NR | R3-201437 | postponed | ???? |
| S5-202032 |  | LS ccSA5 on Generic Slice Template with Public Safety Feedback | TCCA | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Document | 1. Title | 1. To | 1. Cc | 1. reply to i/c LS |
| S5-202052 | Reply LS to LS on EN-DC related MDT configuration details | RAN2 | RAN3 | S5-202019 |
| S5-202300 | Reply LS to ONAP on liaison coordinator and VES API reference | ONAP | - | S5-202030 |
| S5-202304 | Reply to: LS to SA5 on Reply on QoE Measurement Collection | SA4,CT1,RAN2,RAN3 | - | S5-202020 |
| S5-202305 | Reply to: Resubmitted Reply LS to SA5 on QoE Measurement Collection | RAN2,RAN3 | - | S5-202021 |
| S5-202308 | LS to CT4 on SNSSAI support in N4 Session Establishment | CT4 | SA2 | - |
| S5-202458 | LS to SA2 on QoS requirements for OAM traffic on IAB | SA2 | - |  |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Document | 1. Title | 1. Source | 1. new/revised |
| S5-202335 | Revised WID on enhancement of 3GPP management system for multiple tenant envorinment support | Huawei | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Document | 1. Spec | 1. vers | 1. Doc title |
| S5-202343 | 28.308 | 0.4.0 | draft TS 28.308 |
| S5-202344 | 28.406 | 0.3.0 | draft TS 28.406 |
| S5-202345 | 28.405 | 1.3.0 | draft TS 28.405 |
| S5-202346 | 28.313 | 0.4.0 | draft TS 28.313 |
| S5-202347 | 28.807 | 1.1.0 | draft TS 28.807 |
| S5-202396 | 28.810 | 0.4.0 | draft TR 28.810 |
| S5-202397 | 28.535 | 1.2.0 | draft TS 28.535 |
| S5-202398 | 28.536 | 0.3.0 | draft TS 28.536 |
| S5-202403 | 28.201 | 0.4.0 | Draft TS 28.201 |
| S5-202404 | 28.202 | 0.1.0 | Draft TS 28.202 |

## Annex F: List of participants

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Organization Represented | Organization Represented Category Code |
| Mr. | Andrianov | Anatoly | Delegate | Nokia Germany | Nokia | ATIS |
| Mrs. | Ayani | Zhulia | Delegate | Ericsson LM | Oy LM Ericsson AB | ETSI |
| Mr. | Bhaskaran | Sridhar | Delegate | Altiostar | Altiostar | ETSI |
| Mr. | Braam | Sjors | Delegate | TNO | KPN N.V. | ETSI |
| Mr. | Cano Soveri | Mirko | Secretary | ETSI | ETSI | ETSI |
| Dr. | Cao | Xi | Rapporteur | China Mobile Research Inst. | China Mobile Com. Corporation | CCSA |
| Ms. | Chen | Na | Delegate | China Telecommunications | China Telecommunications | ETSI |
| Miss | CHEN | SHAN | Delegate | Huawei Tech.(UK) Co., Ltd | HiSilicon Technologies Co. Ltd | CCSA |
| Mr. | Chou | Joey | Rapporteur | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd | ETSI |
| Dr. | Cornily | Jean Michel | Delegate | Orange | Orange Romania | ETSI |
| Miss | Dong | Jia | Delegate | China Mobile E-Commerce Co. | China Mobile Com. Corporation | CCSA |
| Mr. | Edwards | Robert | Delegate | Matrixx | Matrixx | ETSI |
| Mr. | Elmdahl | Per | Delegate | Ericsson France S.A.S | Ericsson France S.A.S | ETSI |
| Mr. | Gao | Xiao-Ming | Delegate | Ericsson LM | COMMUNICATIONS ALLIANCE LTD | OTHER |
| Mrs. | Gardella | Maryse | Vice Chairman | Nokia France | Nokia UK | ETSI |
| Mr. | Gautam | Deepanshu | Delegate | Samsung R&D Institute UK | Samsung Electronics France SA | ETSI |
| Mr. | Glozman | Borislav | Delegate | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd | ETSI |
| Mr. | Görmer | Gerald | Delegate | Matrixx | Matrixx | ETSI |
| Mr. | Groenendijk | Jan | Delegate | Ericsson LM | Ericsson LM | ETSI |
| Miss | Guo | Shasha | Rapporteur | China Mobile Com. Corporation | China Mobile Com. Corporation | CCSA |
| Mr. | Harper | Colby | Delegate | Pivotal Commware | Pivotal Commware | ATIS |
| Mr. | Harper | Colby | Delegate | Pivotal Commware | Pivotal Commware | ATIS |
| Mr. | He | Rui | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Telecommunication India | TSDSI |
| Mr. | Horvat | Attila | Delegate | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB | ETSI |
| Mr. | Jan | Onnegren | Delegate | Ericsson LM | Ericsson LM | ETSI |
| Mr. | Jerbi | Walid | Delegate | Deutsche Telekom AG | Deutsche Telekom AG | ETSI |
| Mr. | Jesske | Roland | Delegate | Deutsche Telekom AG | Deutsche Telekom AG | ETSI |
| Miss | JIA | Xiaoqian | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd | CCSA |
| Mr. | Klotz | Michael | Delegate | Deutsche Telekom AG | Deutsche Telekom AG | ETSI |
| Dr. | Kollar | Martin | Delegate | Nokia Solutions & Networks (I) | Nokia Solutions & Networks (I) | TSDSI |
| Dr. | Lagha | Naceur | Delegate | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd | ETSI |
| Mr. | Lengyel | Balazs | Delegate | Ericsson Hungary Ltd | Ericsson Hungary Ltd | ETSI |
| Mr. | Li | Gang | Delegate | Nanjing Ericsson Panda Com Ltd | Nanjing Ericsson Panda Com Ltd | CCSA |
| Miss | Li | Li | Delegate | HuaWei Technologies Co., Ltd | HuaWei Technologies Co., Ltd | CCSA |
| Mr. | Li | Shitao | Delegate | Huawei Tech.(UK) Co., Ltd | HUAWEI TECH. GmbH | ETSI |
| Mr. | Libunao | Gerardo | Delegate | Verizon UK Ltd | Verizon UK Ltd | ETSI |
| Mr. | Lindblad | Jan | Delegate | Cisco Systems Belgium | Cisco Systems Belgium | ETSI |
| Mr. | McNamee | Alan | Delegate | Openet Telecom | Openet Telecom | ETSI |
| Ing. | Moggio | Fabrizio | Delegate | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. | ETSI |
| Dr. | Mwanje | Stephen | Delegate | Nokia | Nokia Germany | ETSI |
| Mr. | Ordonez-Lucena | Jose | Delegate | TELEFONICA S.A. | TELEFONICA S.A. | ETSI |
| Mr. | Petersen | Robert | Rapporteur | Ericsson LM | Ericsson GmbH, Eurolab | ETSI |
| Miss | Ping | Jing | Delegate | Nokia Germany | Nokia Germany | ETSI |
| Dr. | Pollakowski | Olaf | Delegate | Nokia Germany | Nokia Germany | ETSI |
| Mr. | Potter | Benjamin | Delegate | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL | ETSI |
| Dr. | Samdanis | Konstantinos | Delegate | Nokia | Nokia | ATIS |
| Mrs. | Shi | xiaoli | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. | ETSI |
| Ms. | Shi | Xiaonan | Delegate | China Mobile Research Inst. | China Mobile E-Commerce Co. | CCSA |
| Mr. | Shu | Min | Delegate | CATT | CATT | CCSA |
| Mr. | Smith | David K. | Delegate | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL | ETSI |
| Mr. | Törnkvist | Robert | Delegate | Ericsson LM | Ericsson LM | ETSI |
| Mr. | Tovinger | Thomas | Chairman | Ericsson LM | Ericsson LM | ETSI |
| Mr. | Xiang | Li | Convenor | China Mobile Research Inst. | China Mobile Com. Corporation | CCSA |
| Mr. | XING | XIAOCHENG | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France | ETSI |
| Mr. | Xu | Ruiyue | Delegate | Huawei Tech.(UK) Co., Ltd | Huawei Tech.(UK) Co., Ltd | ETSI |
| Mr. | Yao | Yizhi | Delegate | Intel Corporation (UK) Ltd | Intel Finland Oy | ETSI |
| Mr. | Zadeh | Bagher | Delegate | Ericsson LM | Ericsson LM | ETSI |
| Mr. | Zhang | Jian | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. | TTC |
| Mr. | Zhang | Kai | Delegate | Huawei Tech.(UK) Co., Ltd | Huawei Technologies R&D UK | ETSI |
| Mr. | Zhu | Lei | Delegate | Huawei Tech.(UK) Co., Ltd | Huawei Tech.(UK) Co., Ltd | ETSI |
| Mr. | Zhu | Weihong | Delegate | ZTE Corporation | ZTE Corporation | ETSI |
| Ms. | Zou | Lan | Vice Chairman | Huawei Tech.(UK) Co., Ltd | Huawei Technologies (Korea) | TTA |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1. Title | 1. Start date | 1. End date (OP) | 1. Town | 1. Country | 1. Reference |
| SA5#131e | 2020-05-25 | 2020-06-03 | Online | emeeting | S5-131e |
| SA5#132e | 2020-08-24 | 2020-08-28 |  |  | S5-132e |
| SA5#133 | 2020-10-12 | 2020-10-16 | US | US | S5-133 |
| SA5#134 | 2020-11-16 | 2020-11-20 | China | CN | S5-134 |