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

**Meeting Report  
for  
TSG SA WG5  
meeting: 129e**

**e-meeting, Online, 24/02/2020 to 04/03/2020**

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## 1 Opening of the meeting

This was an electronic meeting. Most of the discussions took place in the SA5 email exploder.

Some notes on these disccussions can be found in the following documents:

S5-201511 (OAM Report), S5-201512 (OAM conclusions) and S5-201513 (OAM Chair notes and comments).

## 2 Approval of the agenda

**S5-201100 Agenda**

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

**Decision:** The document was **revised to S5-201338**.

**S5-201338 SA5#129e E-Meeting Agenda**

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

(Replaces S5-201100)

**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

### 4.2 Last SA meeting report

### 4.3 Inter-organizational reports

## 5 Cross-SWG issues

### 5.1 Administrative issues at SA5 level

**S5-201101 SA5#129e E-Meeting process**

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

**Decision:** The document was **revised to S5-201240**.

**S5-201240 SA5#129e E-Meeting process**

*Type: discussion For: Information  
 Source: WG Vice Chair*

(Replaces S5-201101)

**Decision:** The document was **revised to S5-201421**.

**S5-201349 SA5 Rel-17 time plan proposal for OAM**

*Type: Work Plan For: (not specified)  
 Source: SA5 Vice chair (Huawei)*

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

**S5-201421 SA5#129e E-Meeting process**

*Type: discussion For: Information  
 Source: WG Vice Chair*

(Replaces S5-201240)

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

**S5-201601 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

### 5.4 SA5 meeting calendar

### 5.5 Review of the Work Plan

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-201417 Migrate SA5 Source files to Gitlab - step 1**

*Type: discussion For: Endorsement  
 Source: Ericsson España S.A.*

**Abstract:**

Documenting JsonSchema, YANG XSD in MS Word documents led to publishing faulty source code.

In order to avoid faulty code we must move the source code into separate files: into the Gitlab based ETSI Forge.

**Decision:** The document was **withdrawn**.

**S5-201420 SA5#129\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

**Decision:** The document was **revised to S5-201423**.

**S5-201423 SA5#129\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

(Replaces S5-201420)

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

**S5-201502 OAM action list**

*Type: other For: discussion  
 Source: WG vice chair (Huawei)*

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

**S5-201511 OAM report**

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

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

**S5-201512 OAM Conclusions**

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

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

**S5-201513 OAM Chair notes and comments**

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

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

### 6.2 New OAM&P Work Item proposals

**S5-201152 New WID on management aspects for Edge Applications enablement**

*Type: WID new For: Agreement  
 Source: Samsung R&D Institute UK*

**Decision:** The document was **revised to S5-201597**.

**S5-201597 New SID on edge computing management**

*Type: SID new For: Agreement  
 Source: Samsung R&D Institute UK,Intel*

(Replaces S5-201152)

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

**S5-201153 DP for new WID on management aspects for Edge Applications enablement**

*Type: discussion For: (not specified)  
 Source: Samsung R&D Institute UK*

**Abstract:**

DP for new WID on management aspects for Edge Applications enablement

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

**S5-201171 Reply LS to SA5 on Application Architecture for enabling Edge Applications**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-200306*

**Decision:** The document was **replied to in S5-201598**.

**S5-201598 Reply to: Reply LS to SA5 on Application Architecture for enabling Edge Applications**

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

(Replaces S5-201173)

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

**S5-201173 Reply LS on Application Architecture for enabling Edge Applications**

*Type: LS out For: (not specified)  
 to SA6  
 Source: Samsung R&D Institute UK*

**Abstract:**

Reply LS on Application Architecture for enabling Edge Applications

**Decision:** The document was **revised to S5-201598**.

**S5-201195 New WID on Self-Organizing Networks (SON) for 5G networks**

*Type: WID new For: Approval  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201496**.

**S5-201496 New WID on Self-Organizing Networks (SON) for 5G networks**

*Type: WID new For: Approval  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201195)

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

**S5-201196 New WID on management aspects of edge computing**

*Type: WID new For: Approval  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201245 New WID on management aspect of Communication Services**

*Type: WID new For: Agreement  
 Source: Samsung R&D Institute UK*

**Abstract:**

New WID on management aspect of Communication Services

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

**S5-201255 New WID Enhancement on Management Aspects of 5G Service-Level Agreement**

*Type: WID new For: Approval  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-201480**.

**S5-201480 New WID Enhancement on Management Aspects of 5G Service-Level Agreement**

*Type: WID new For: Approval  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-201255)

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

**S5-201257 New SID New areas on EE for 5G networks**

*Type: SID new For: Approval  
 Source: Orange*

**Decision:** The document was **revised to S5-201477**.

**S5-201477 New SID New areas on EE for 5G networks**

*Type: SID new For: Approval  
 Source: Orange*

(Replaces S5-201257)

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

**S5-201258 New WID Enhancements on EE for 5G networks**

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

**Decision:** The document was **revised to S5-201478**.

**S5-201478 New WID Enhancements on EE for 5G networks**

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

(Replaces S5-201258)

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

**S5-201267 New WI on management of non-public networks**

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

**Decision:** The document was **revised to S5-201479**.

**S5-201479 New WI on management of non-public networks**

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

(Replaces S5-201267)

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

**S5-201305 Revised WID on Intent driven management service for mobile networks**

*Type: WID revised For: (not specified)  
 Source: Huawei Device Co., Ltd*

**Decision:** The document was **revised to S5-201471**.

**S5-201471 Revised WID on Intent driven management service for mobile networks**

*Type: WID revised For: -  
 Source: Huawei Device Co., Ltd*

(Replaces S5-201305)

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

**S5-201352 New WID on Enhanced Closed loop SLS assurance**

*Type: WID new For: Approval  
 Source: Ericsson LM,Deutsche telekom*

**Decision:** The document was **revised to S5-201599**.

**S5-201599 New WID on Enhanced Closed loop SLS assurance**

*Type: WID new For: Approval  
 Source: Ericsson LM,Deutsche telekom*

(Replaces S5-201352)

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

**S5-201372 New WID on management of MDT enhancement in 5G**

*Type: WID new For: Approval  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201481**.

**S5-201481 New WID on management of MDT enhancement in 5G**

*Type: WID new For: Approval  
 Source: Oy LM Ericsson AB*

(Replaces S5-201372)

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

**S5-201380 New WI proposal for REL17 NRM**

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

**Decision:** The document was **revised to S5-201482**.

**S5-201482 New WID on Additional NRM features**

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

(Replaces S5-201380)

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

**S5-201405 New WID on QoE Measurement Collection in 5G and Signalling Based Activation for UMTS and LTE**

*Type: WID new For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **revised to S5-201483**.

**S5-201483 New WID on Enhancement of QoE Measurement Collection**

*Type: WID new For: -  
 Source: Ericsson*

(Replaces S5-201405)

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

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

**S5-201103 Rel-16 CR TS 28.541 Include PNF in network slice NRM fragment diagram**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0230 Cat: F (Rel-16)  
  
 Source: Orange*

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

**S5-201107 Rel-16 CR TS 28.531 Replace occurences of Management Function by Management Service**

*Type: CR For: Approval  
 28.531 v16.4.0 CR-0039 Cat: F (Rel-16)  
  
 Source: Orange*

**Abstract:**

The management of 5G networks is service-based. Consequently, TS 28.531 shall use the term 'management service' rather than 'management function', 'NSMF', 'NSSMF', etc. This approach has already been adopted in other Stage 1 TSs such as TS 28.545 (fault supervision) and TS 28.550 (performance assurance).

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

**S5-201111 Rel-16 CR 28.531 Network Slice Identification Fix Stage 2 and Stage 3**

*Type: CR For: Approval  
 28.531 v16.4.0 CR-0040 Cat: F (Rel-16)  
  
 Source: Samsung R&D Institute UK*

**Abstract:**

This CR fixes the Network Slice Identification error

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

**S5-201112 Rel-15 CR 28.531 Network Slice Identifiction Fix Stage 2 and Stage 3**

*Type: CR For: Approval  
 28.531 v15.5.0 CR-0041 Cat: F (Rel-15)  
  
 Source: Samsung R&D Institute UK*

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

**S5-201117 Rel-15 CR TS 32.422 Updating the measurements list for Immediate MDT**

*Type: CR For: Agreement  
 32.422 v15.2.0 CR-0310 Cat: F (Rel-15)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-201526**.

**S5-201526 Rel-15 CR TS 32.422 Updating the measurements list for Immediate MDT**

*Type: CR For: Agreement  
 32.422 v15.2.0 CR-0310 rev 1 Cat: F (Rel-15)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-201117)

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

**S5-201118 Rel-16 CR TS 32.422 Updating the measurements list for Immediate MDT**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0311 Cat: A (Rel-16)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-201527**.

**S5-201527 Rel-16 CR TS 32.422 Updating the measurements list for Immediate MDT**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0311 rev 1 Cat: A (Rel-16)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-201118)

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

**S5-201120 Add missing definition for matching-criteria-attributes**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0089 Cat: A (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201122 Implement ME (instead of MF) relation to VNF**

*Type: CR For: Approval  
 28.622 v16.2.0 CR-0067 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201123 Use new 28xyz for 28622 material**

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

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

**S5-201124 Add missing definition for matching-criteria-attributes**

*Type: CR For: Approval  
 28.622 v15.4.0 CR-0068 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

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

**S5-201125 Correct placement of notifyEvent definition stage 2**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0090 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201126 Add stage 3 notifyEvent stage 3**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0091 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201127 Clarify capability of ack alarms and filter constraint**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0092 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-201553**.

**S5-201553 Clarify capability of ack alarms and filter constraint**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0092 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

(Replaces S5-201127)

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

**S5-201128 Add notifyAlarmRecord**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0093 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201129 Clarify NSI can be RAN resource only**

*Type: CR For: Approval  
 28.530 v16.1.0 CR-0017 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201184 Rel-15 CR 28.550 Update the performance data streaming procedure**

*Type: CR For: Approval  
 28.550 v15.3.0 CR-0043 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201528**.

**S5-201528 Rel-15 CR 28.550 Update the performance data streaming procedure**

*Type: CR For: Approval  
 28.550 v15.3.0 CR-0043 rev 1 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201184)

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

**S5-201185 Rel-16 CR 28.550 Update the performance data streaming procedure**

*Type: CR For: Approval  
 28.550 v16.3.0 CR-0044 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201529**.

**S5-201529 Rel-16 CR 28.550 Update the performance data streaming procedure**

*Type: CR For: Approval  
 28.550 v16.3.0 CR-0044 rev 1 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201185)

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

**S5-201186 Rel-15 CR 28.550 Add streaming procedure for measurement collection termination**

*Type: CR For: Approval  
 28.550 v15.3.0 CR-0045 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201533**.

**S5-201533 Rel-15 CR 28.550 Add streaming procedure for measurement collection termination**

*Type: CR For: Approval  
 28.550 v15.3.0 CR-0045 rev 1 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201186)

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

**S5-201187 Rel-16 CR 28.550 Add streaming procedure for measurement collection termination**

*Type: CR For: Approval  
 28.550 v16.3.0 CR-0046 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201534**.

**S5-201534 Rel-16 CR 28.550 Add streaming procedure for measurement collection termination**

*Type: CR For: Approval  
 28.550 v16.3.0 CR-0046 rev 1 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201187)

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

**S5-201188 Rel-15 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer**

*Type: CR For: Approval  
 28.533 v15.3.0 CR-0055 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201537**.

**S5-201537 Rel-15 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer**

*Type: CR For: Approval  
 28.533 v15.3.0 CR-0055 rev 1 Cat: F (Rel-15)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201188)

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

**S5-201189 Rel-16 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer**

*Type: CR For: Approval  
 28.533 v16.2.0 CR-0056 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201538**.

**S5-201538 Rel-16 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer**

*Type: CR For: Approval  
 28.533 v16.2.0 CR-0056 rev 1 Cat: A (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201189)

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

**S5-201306 Rel16 CR 28.622 Update references related to NFV**

*Type: CR For: Agreement  
 28.622 v16.2.0 CR-0070 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201307 Rel16 CR 28.541 Update references related to NFV**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0251 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201308 Rel16 CR 28.533 Update references related to NFV**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0058 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201309 Rel16 CR 28.531 Update references related to NFV**

*Type: CR For: Agreement  
 28.531 v16.4.0 CR-0042 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201310 Rel16 CR 28.532 Update references related to NFV**

*Type: CR For: Agreement  
 28.532 v16.2.0 CR-0095 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201318 Rel-16 CR TS 28.532 Rapporteur clean up**

*Type: CR For: Agreement  
 28.532 v16.2.0 CR-0096 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201319 Rel-16 CR TS 28.532 Update the description for generic provisioning MnS**

*Type: CR For: Agreement  
 28.532 v16.2.0 CR-0097 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201346 Align text in network slice subnet concepts with NRM**

*Type: CR For: Approval  
 28.530 v15.3.0 CR-0019 Cat: F (Rel-15)  
  
 Source: Ericsson LM,,Deutsche telekom*

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

**S5-201347 Align text in network slice subnet concepts with NRM**

*Type: CR For: Approval  
 28.530 v16.1.0 CR-0020 Cat: A (Rel-16)  
  
 Source: Ericsson LM,Deutsche telekom*

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

**S5-201348 Correct reference to NOTE in attribute properties table in clause 5.2.1.1**

*Type: CR For: Approval  
 32.156 v16.3.0 CR-0037 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201350 Remove incorrect example from constraints table**

*Type: CR For: Approval  
 32.160 v16.1.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201351 Resolution of Editors Note in clause W4.3 Class definitions**

*Type: CR For: Approval  
 32.160 v16.1.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201361 Rel-15 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v15.3.0 CR-0063 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201551**.

**S5-201551 Rel-15 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v15.3.0 CR-0063 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-201361)

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

**S5-201362 Rel-16 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0064 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201552**.

**S5-201552 Rel-16 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0064 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-201362)

**Decision:** The document was **revised to S5-201600**.

**S5-201600 Rel-16 CR TS 28.533 Update of Management service description and diagram**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0064 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-201552)

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

**S5-201364 Add missing LTE MDT trace record**

*Type: CR For: Agreement  
 32.422 v15.2.0 CR-0312 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201367 Add missing LTE MDT trace record**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0313 Cat: A (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201369 Add missing MDT trace record for LTE measurements**

*Type: CR For: Agreement  
 32.423 v15.1.0 CR-0099 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201556**.

**S5-201556 Add missing MDT trace record for LTE measurements**

*Type: CR For: Agreement  
 32.423 v15.1.0 CR-0099 rev 1 Cat: F (Rel-15)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201369)

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

**S5-201377 correct ackState name**

*Type: CR For: Approval  
 28.532 v15.4.0 CR-0099 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-201558**.

**S5-201558 correct ackState name**

*Type: CR For: Approval  
 28.532 v15.4.0 CR-0099 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

(Replaces S5-201377)

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

**S5-201384 Rel-15 CR 28.158 Clarify HTTP Patch methods**

*Type: CR For: Approval  
 32.158 v15.3.0 CR-0011 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201555**.

**S5-201555 Rel-15 CR 28.158 Clarify HTTP Patch methods**

*Type: CR For: Approval  
 32.158 v15.3.0 CR-0011 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201384)

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

**S5-201385 Rel-16 CR 28.532 Add summary CM notification to the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0100 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201540**.

**S5-201540 Rel-16 CR 28.532 Add summary CM notification to the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0100 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201385)

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

**S5-201387 Rel-16 CR 28.532 Clarify and add numerous issues in the REST SS of the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0101 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201541**.

**S5-201541 Rel-16 CR 28.532 Clarify and add numerous issues in the REST SS of the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0101 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201387)

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

**S5-201390 Rel-16 CR 28.532 Remove subscribe and unsubscribe operation from ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0102 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201392 Rel-16 CR 28.532 Correct OpenAPI definition of the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0103 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201542**.

**S5-201542 Rel-16 CR 28.532 Correct OpenAPI definition of the ProvMnS**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0103 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201392)

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

**S5-201393 Rel-16 CR 28.622 Correct HeartbeatControl IOC definition**

*Type: CR For: Approval  
 28.622 v16.2.0 CR-0071 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201554**.

**S5-201554 Rel-16 CR 28.622 Correct HeartbeatControl IOC definition**

*Type: CR For: Approval  
 28.622 v16.2.0 CR-0071 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201393)

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

**S5-201395 Rel-16 CR 28.622 Add missing supported notifications of MeasurementReader, MeasurementControl and ThresholdMonitor**

*Type: CR For: (not specified)  
 28.622 v16.2.0 CR-0072 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201402 TD Definition of SystemDN**

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

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

**S5-201403 Correct ackState attribute name**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0104 Cat: A (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-201406 Correct Heartbeat**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0105 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201408 ME (instead of MF) relation to VNF in YANG**

*Type: CR For: Approval  
 28.623 v16.2.0 CR-0044 Cat: F (Rel-16)  
  
 Source: Ericsson España S.A.*

**Abstract:**

Summary of change: Remove the ManagedFunction.vnfParameterList. Add the ManagedElement.vNFParameterList.

Remove description related to VNF from the Definition of ManagedFunction. Add corresponding description related to VNF to Definition of ManagedElement.

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

**S5-201419 Rel-16 CR 28.533 Correct definition of MnS and introduce term Service Based Management Architecture and its abbreviation SBMA**

*Type: CR For: Approval  
 28.533 v16.2.0 CR-0065 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201498 Rel-16 CR 28.533 Correct definition of MnS and introduce term Service Based Management Architecture and its abbreviation SBMA**

*Type: CR For: Approval  
 28.533 v16.2.0 CR-0065 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201425 Add missing definition for matching-criteria-attributes**

*Type: CR For: Approval  
 28.532 v15.4.0 CR-0106 Cat: F (Rel-15)  
  
 Source: Ericsson Limited*

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

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

#### 6.4.1 Management of QoE measurement collection

**S5-201163 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 **withdrawn**.

**S5-201172 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 **postponed**.

**S5-201388 pCR R16 28.307-020 Rapporteur's clean up**

*Type: pCR For: (not specified)  
 28.307 v0.2.0  
 Source: Ericsson*

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

**S5-201389 pCR R16 28.308-020 Rapporteur's clean up**

*Type: pCR For: (not specified)  
 28.308 v0.2.0  
 Source: Ericsson*

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

**S5-201391 pCR R16 28.405-110 Rapporteur's clean up**

*Type: pCR For: (not specified)  
 28.405 v1.1.0  
 Source: Ericsson*

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

**S5-201394 pCR R16 28.307-020 Remove SBA**

*Type: pCR For: (not specified)  
 28.307 v0.2.0  
 Source: Ericsson*

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

**S5-201396 pCR R16 28.308-020 Remove SBA**

*Type: pCR For: (not specified)  
 28.308 v0.2.0  
 Source: Ericsson*

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

**S5-201398 Removing Signalling Based Activation**

*Type: CR For: (not specified)  
 28.404 v16.1.0 CR-0002 Cat: C (Rel-16)  
  
 Source: Ericsson*

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

**S5-201401 pCR R16 28.405-110 Remove SBA**

*Type: pCR For: (not specified)  
 28.405 v1.1.0  
 Source: Ericsson*

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

**S5-201404 pCR R16 28.406-011 Remove SBA**

*Type: pCR For: (not specified)  
 28.405 v1.1.0  
 Source: Ericsson*

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

**S5-201426 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 **postponed**.

**S5-201506 Draft TS 28.307**

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

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

**S5-201507 Draft TS 28.308**

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

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

**S5-201508 Draft TS 28.405**

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

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

**S5-201509 Draft TS 28.406**

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

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

**S5-201532 Rel-16 Work Item Exception for QOED**

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

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

#### 6.4.2 Energy Efficiency of 5G

**S5-201116 pCR TS 28.310 Add solution for distributed energy saving management**

*Type: pCR For: Approval  
 28.310 v1.2.0  
 Source: Orange*

**Decision:** The document was **revised to S5-201484**.

**S5-201484 pCR TS 28.310 Add solution for distributed energy saving management**

*Type: pCR For: Approval  
 28.310 v1.2.0  
 Source: Orange*

(Replaces S5-201116)

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

**S5-201131 pCR TS 28.310 Add requirement on energy saving reactivation**

*Type: pCR For: Approval  
 28.310 v1.2.0  
 Source: Nanjing Ericsson Panda Com Ltd*

**Decision:** The document was **revised to S5-201485**.

**S5-201485 pCR TS 28.310 Add requirement on energy saving reactivation**

*Type: pCR For: Approval  
 28.310 v1.2.0  
 Source: Nanjing Ericsson Panda Com Ltd*

(Replaces S5-201131)

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

**S5-201161 Rel-16 CR TS 28.541 Add NRM fragment for energy saving management**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0237 Cat: B (Rel-16)  
  
 Source: Orange, Huawei*

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

**S5-201167 Reply LS to SA5 on energy efficiency**

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

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

**S5-201168 Reply LS to SA5 on analytics support for energy saving**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-191378*

**Decision:** The document was **replied to in S5-201472**.

**S5-201472 Reply LS on analytics support for energy saving**

*Type: LS out For: approval  
 to SA, cc SA2.SA3,SA3-LI,RAN3  
 Source: ORANGE*

(Replaces S5-201269)

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

**S5-201169 LS ccSA5 on analytics support for energy saving**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1912770*

**Decision:** The document was **replied to in S5-201472**.

**S5-201174 pCR TS 28.310 Add solution for centralized energy saving management**

*Type: pCR For: Approval  
 28.310 v1.2.0  
 Source: Orange*

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

**S5-201269 Reply LS on analytics support for energy saving**

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

**Decision:** The document was **revised to S5-201472**.

**S5-201339 Presentation of TS 28.310 for approval to SA#87**

*Type: TS or TR cover For: Approval  
 28.310 v1.2.0  
 Source: Orange*

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

**S5-201474 Exception sheet for WI EE\_5G**

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

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

**S5-201504 Draft TS 28.310**

*Type: draft TS For: Approval  
 28.310 v1.3.0  
 Source: ORANGE*

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

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

**S5-201279 pCR TR 28.812 Rapporteur cleanup**

*Type: pCR For: (not specified)  
 28.812 v0.9.0  
 Source: Huawei Device Co., Ltd*

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

**S5-201282 pCR TR 28.812 Update Recommendation and Conclusion**

*Type: pCR For: (not specified)  
 28.812 v0.9.0  
 Source: Huawei Device Co., Ltd*

**Decision:** The document was **revised to S5-201486**.

**S5-201486 pCR TR 28.812 Update Recommendation and Conclusion**

*Type: pCR For: -  
 28.812 v0.9.0  
 Source: Huawei Device Co., Ltd*

(Replaces S5-201282)

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

**S5-201475 Exception sheet for WI TM\_SBMA**

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

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

**S5-201499 Draft TR 28.812**

*Type: draft TR For: Approval  
 28.812 v0.10.0  
 Source: Huawei*

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

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

**S5-201133 Rel-16 CR TS 28.552 Correction of PDCP Data Volume measurement name**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0173 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201134 Rel-16 CR TS 28.552 Correction of text color**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0174 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201135 Rel-16 CR TS 28.552 Correction of UE throughput measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0175 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201565**.

**S5-201565 Rel-16 CR TS 28.552 Correction of UE throughput measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0175 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201135)

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

**S5-201136 Rel-16 CR TS 28.554 Correction of equation color**

*Type: CR For: Approval  
 28.554 v16.3.0 CR-0039 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201137 Rel-16 CR TS 28.552 Correction of Packet Drop Rate measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0176 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201566**.

**S5-201566 Rel-16 CR TS 28.552 Correction of Packet Drop Rate measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0176 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201137)

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

**S5-201138 Rel-16 CR TS 28.552 Correction of Packet Loss Rate measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0177 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201567**.

**S5-201567 Rel-16 CR TS 28.552 Correction of Packet Loss Rate measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0177 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201138)

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

**S5-201149 Rel-16 CR TS 28.552 Add new measurements related to DRB Setup via Initial Context Setup**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0181 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201569**.

**S5-201569 Rel-16 CR TS 28.552 Add new measurements related to DRB Setup via Initial Context Setup**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0181 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201149)

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

**S5-201150 Rel-16 CR TS 28.552 Correct measurements related to QoS flows**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0182 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201577**.

**S5-201577 Rel-16 CR TS 28.552 Correct measurements related to QoS flows**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0182 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201150)

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

**S5-201151 Rel-16 CR TS 28.552 Correct PDU Data Volume measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0183 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201175 Rel-16 CR TS 28.552 Add reference to RAN L2 measurement specification**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0184 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201568**.

**S5-201568 Rel-16 CR TS 28.552 Add reference to RAN L2 measurement specification**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0184 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201175)

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

**S5-201177 Rel-16 CR TS 28.552 Add measurement Average delay UL on over-the-air interface**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0186 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201561**.

**S5-201561 Rel-16 CR TS 28.552 Add measurement Average delay UL on over-the-air interface**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0186 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201177)

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

**S5-201178 Rel-16 CR TS 28.552 Add Number of Active UEs measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0187 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201580**.

**S5-201580 Rel-16 CR TS 28.552 Add Number of Active UEs measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0187 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201178)

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

**S5-201179 Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and NG-RAN**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0188 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201562**.

**S5-201562 Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and NG-RAN**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0188 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201179)

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

**S5-201180 Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and NG-RAN**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0189 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201563**.

**S5-201563 Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and NG-RAN**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0189 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201180)

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

**S5-201181 Rel-16 CR 28.552 Add measurements on RTT delay between PSA UPF and NG-RAN**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0190 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201564**.

**S5-201564 Rel-16 CR 28.552 Add measurements on RTT delay between PSA UPF and NG-RAN**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0190 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201181)

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

**S5-201182 Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0191 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201559**.

**S5-201559 Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0191 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201182)

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

**S5-201183 Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0192 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201560**.

**S5-201560 Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0192 rev 1 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201183)

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

**S5-201268 Add DL user plane packet delay measurement from PSA UPF to UE**

*Type: CR For: Approval  
 28.550 v16.3.0 CR-0047 Cat: B (Rel-16)  
  
 Source: ETRI*

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

**S5-201272 Add UL user plane packet delay measurement from UE to PSA UPF**

*Type: CR For: Approval  
 28.550 v16.3.0 CR-0048 Cat: B (Rel-16)  
  
 Source: ETRI*

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

**S5-201313 Rel-16 CR TS 28.552 Update the latency related measurements**

*Type: CR For: (not specified)  
 28.552 v16.4.0 CR-0193 Cat: F (Rel-16)  
  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S5-201325 R16 CR TS28.552 Add measurements for SSB beam handover**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0194 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

**Decision:** The document was **revised to S5-201578**.

**S5-201578 R16 CR TS28.552 Add measurements for SSB beam handover**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0194 rev 1 Cat: B (Rel-16)  
  
 Source: China Telecommunications, ZTE*

(Replaces S5-201325)

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

**S5-201332 R16 CR TS28.552 Modify Packet Delay measurements**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0195 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-201333 R16 CR TS28.552 Modify PRB usage measurements**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0196 Cat: B (Rel-16)  
  
 Source: ZTE, China Telecom*

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

**S5-201335 R16 CR TS28.552 Add RSRP measurements**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0197 Cat: B (Rel-16)  
  
 Source: ZTE, China Mobile*

**Decision:** The document was **revised to S5-201579**.

**S5-201579 R16 CR TS28.552 Add RSRP measurements**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0197 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE, China Mobile*

(Replaces S5-201335)

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

**S5-201336 R16 CR TS 28.552 Add TA related measurements**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0198 Cat: B (Rel-16)  
  
 Source: ZTE, China Mobile*

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

**S5-201337 R16 CR TS 28.552 Add TA related measurements**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0199 Cat: B (Rel-16)  
  
 Source: ZTE, China Mobile*

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

**S5-201378 Add new Use cases into A.28 according to agreed CRs**

*Type: CR For: Agreement  
 28.552 v16.4.0 CR-0200 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201521 Rel-16 Exception sheet for WI 5G\_SLICE\_ePA**

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

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

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

**S5-201523 Exception sheet for WI 5GDMS**

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

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

#### 6.4.6 NRM enhancements

**S5-201113 Rel 16 CR 28.541 NRM adding missing managedNFProfile Stage 2 and Stage 3**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0231 Cat: F (Rel-16)  
  
 Source: Samsung R&D Institute UK*

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

**S5-201114 Rel-16 CR 28.541 nSIIdList NRM Fix Stage 2 and Stage 3**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0232 Cat: F (Rel-16)  
  
 Source: Samsung R&D Institute UK*

**Abstract:**

Adding nSIIdList in remaining IOCs

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

**S5-201115 Rel-15 CR 28.541 nSIIdList NRM Fix Stage 2 and Stage 3**

*Type: CR For: Approval  
 28.541 v15.5.0 CR-0233 Cat: F (Rel-15)  
  
 Source: Samsung R&D Institute UK*

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

**S5-201121 Add configurable FM.**

*Type: CR For: Approval  
 28.622 v16.2.0 CR-0066 Cat: B (Rel-16)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-201548**.

**S5-201548 Add configurable FM.**

*Type: CR For: Approval  
 28.622 v16.2.0 CR-0066 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson Limited*

(Replaces S5-201121)

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

**S5-201130 Rel-16 CR TS 28.540 Correction of requirement number**

*Type: CR For: Approval  
 28.540 v16.1.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201132 Rel-16 CR TS 28.541 Correction of reference**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0235 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201166 Resubmitted Reply LS to SA5 on clarification of OAM requirements for RIM**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-197540*

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

**S5-201190 Rel-16 CR TS 28.541 Correct the parameter sNSSAIList in ServiceProfile and SliceProfile**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0238 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201191 Rel-16 CR TS 28.541 Update the NR NRM to align with NG-RAN overview architecture**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0239 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201543**.

**S5-201543 Rel-16 CR TS 28.541 Update the NR NRM to align with NG-RAN overview architecture**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0239 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-201191)

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

**S5-201192 Rel-16 CR TS 28.541 Correct the xml solution set for NR**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0240 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201193 Rel-16 CR TS 28.541 Some correction the NR NRM**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0241 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201197 Rel-16 CR TS 28.541 Fix merging errors of the specification**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0242 Cat: F (Rel-16)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell*

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

**S5-201198 Rel-16 CR TS 28.541 Update NRM attribute definitions**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0243 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-201550**.

**S5-201550 Rel-16 CR TS 28.541 Update NRM attribute definitions**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0243 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-201198)

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

**S5-201199 Rel-16 CR TS 28.541 Add NRPhysicalCellDU and NRCarrier NRM**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0244 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-201259 Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0245 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201547**.

**S5-201547 Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0245 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-201259)

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

**S5-201278 Rel-16 CR TS 28.541 Update of GNBCUUPFunction NRM**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0250 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201545**.

**S5-201545 Rel-16 CR TS 28.541 Update of GNBCUUPFunction NRM**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0250 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201278)

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

**S5-201317 Rel-16 CR 28.541 Update of RRM Policy**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0179 rev 3 Cat: C (Rel-16)  
  
 Source: Ericsson, Huawei, Nokia*

(Replaces S5-197638)

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

**S5-201320 Rel-16 CR TS 28.541 Clause 4.3.36 Update on RRMPolicyRatio**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0252 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201334 Rel-16 CR TS 28.541 Correct the parameter sNSSAIList**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0163 rev 3 Cat: F (Rel-16)  
  
 Source: Huawei,Ericsson*

(Replaces S5-197634)

**Decision:** The document was **revised to S5-201544**.

**S5-201544 Rel-16 CR TS 28.541 Correct the parameter sNSSAIList**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0163 rev 4 Cat: F (Rel-16)  
  
 Source: Huawei,Ericsson*

(Replaces S5-201334)

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

**S5-201343 YANG Guidelines Update**

*Type: CR For: Approval  
 32.160 v16.1.0 CR-0005 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

**Abstract:**

Add CR number into the YANG revision statement.

Define how a Proxy class is mapped to YANG.

State the exact format of the module reference. This will allow a simple grep command to list all modules belonging to a specific specification.

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

**S5-201344 YANG\_Netconf Operations**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0098 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

**Abstract:**

Add a YANG/Netconf SS for the operations createMOI, getMOIAttributes, modifyMOIAttributes and deleteMOI

We specify one specific Netconf based mapping for the 3GPP operations, while still allowing alternative Netconf operations conforming to the 3GPP YANG models.

**Decision:** The document was **revised to S5-201539**.

**S5-201539 YANG\_Netconf Operations**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0098 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Orange, Telecom Italia, China Mobile, Huawei*

(Replaces S5-201344)

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

**S5-201363 Rel-16 CR TS 28.541 Add Stage 3 NRM Info Model definitions for RRMPolicy and PLMNInfo related CRs**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0253 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201546**.

**S5-201546 Rel-16 CR TS 28.541 Add Stage 3 NRM Info Model definitions for RRMPolicy and PLMNInfo related CRs**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0253 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Nokia, Huawei*

(Replaces S5-201363)

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

**S5-201365 Add configurable FM - YANG Solution**

*Type: CR For: Approval  
 28.623 v16.2.0 CR-0042 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

**Abstract:**

Add a YANG solution set for a configurable FM

**Decision:** The document was **revised to S5-201549**.

**S5-201549 Add configurable FM - YANG Solution**

*Type: CR For: Approval  
 28.623 v16.2.0 CR-0042 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson España S.A.*

(Replaces S5-201365)

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

**S5-201379 TD replance JSON with YAML in NRM**

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

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

**S5-201397 Rel-16 CR 28.623 Add OpenAPI definitions required by the ProvMnS**

*Type: CR For: Approval  
 28.623 v16.2.0 CR-0043 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201399 Rel-16 CR 28.541 Add OpenAPI definitions required by the ProvMnS**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0255 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201400 TD Use YAML instead of JSON in the OpenAPI definitions of the REST SS**

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

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

**S5-201468 Correct errors in yang solution set**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0258 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201469 Correct errors in yang solution set**

*Type: CR For: Agreement  
 28.623 v16.2.0 CR-0045 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201530 Rel-16 Exception sheet for eNRM**

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

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

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

#### 6.4.8 Integration of ONAP and 3GPP 5G management framework

**S5-201277 Rel-16 CR TS 28.532 Correction of MnS Stage 3 SSs for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0094 Cat: F (Rel-16)  
  
 Source: AT&T, Ericsson, Nokia, Orange,Huawei*

**Decision:** The document was **revised to S5-201487**.

**S5-201487 Rel-16 CR TS 28.532 Correction of MnS Stage 3 SSs for integration with ONAP VES**

*Type: CR For: Approval  
 28.532 v16.2.0 CR-0094 rev 1 Cat: F (Rel-16)  
  
 Source: AT&T, Ericsson, Nokia, Orange,Huawei*

(Replaces S5-201277)

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

**S5-201321 Rel-16 CR TS 28.533 Add the description of methodology for integration of ONAP VES Collector and 3GPP MnS**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0061 Cat: B (Rel-16)  
  
 Source: Huawei*

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

#### 6.4.9 Closed loop SLS Assurance

**S5-201194 Rel-16 CR TS 28.533 Update Clause 5.3 Management service deployment based on ZSM framework**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0057 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201489**.

**S5-201489 Rel-16 CR TS 28.533 Update Clause 5.3 Management service deployment based on ZSM framework**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0057 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson, Deutsche Telekom*

(Replaces S5-201194)

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

**S5-201247 Rel-16 pCR TS 28.535 Add UC on NWDAF assisted SLS Assurance**

*Type: pCR For: Agreement  
 28.535 v1.0.0  
 Source: Samsung R&D Institute UK*

**Abstract:**

UC on NWDAF assisted SLS Assurance

**Decision:** The document was **revised to S5-201473**.

**S5-201473 Rel-16 pCR TS 28.535 Add UC on NWDAF assisted SLS Assurance**

*Type: pCR For: Agreement  
 28.535 v1.0.0  
 Source: Samsung R&D Institute UK*

(Replaces S5-201247)

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

**S5-201250 pCR 28.535 Add ManagementControlLoop Definition**

*Type: pCR For: Approval  
 28.535 v1.0.0  
 Source: China Mobile E-Commerce Co.*

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

**S5-201271 pCR TS 28.535 Add description of communication service assurance in the concept**

*Type: pCR For: Approval  
 28.535 v1.0.0  
 Source: China Mobile E-Commerce Co.*

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

**S5-201274 pCR 28.535 Add ManagementControlLoop Definition**

*Type: pCR For: (not specified)  
 28.535 v1.0.0  
 Source: China Mobile Com. Corporation*

**Abstract:**

The contribution is focusing on the CSI MCL definition, it describes the phases of MCL in the life cycle of CSI, and gives the potential composition of MCL

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

**S5-201314 CR TS 28.533 Add the cooperation with CN and RAN**

*Type: CR For: (not specified)  
 28.533 v16.2.0 CR-0060 Cat: B (Rel-16)  
  
 Source: Huawei Device Co., Ltd*

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

**S5-201345 pCR 28.535 Add ManagementControlLoop Definition**

*Type: pCR For: Approval  
 28.535 v1.0.0  
 Source: China Mobile E-Commerce Co.*

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

**S5-201354 Discussion paper around Closed Loop SLS Assurance architecture**

*Type: discussion For: Endorsement  
 Source: Ericsson LM*

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

**S5-201355 Add clauses to describe closed control loop interactions**

*Type: CR For: Approval  
 28.533 v16.2.0 CR-0062 Cat: C (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-201356 Add text for clause 4.2 Management control loops**

*Type: pCR For: Approval  
 28.535 v1.0.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201488**.

**S5-201488 Add text for clause 4.2 Management control loops**

*Type: pCR For: Approval  
 28.535 v1.0.0  
 Source: Ericsson, China Mobile, Huawei, China Southern Power Grid Co*

(Replaces S5-201356)

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

**S5-201357 Add control loop text for stage 2**

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

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

**S5-201359 Presentation of TS 28.536 for information to SA#87e**

*Type: TS or TR cover For: Information  
 28.536 v0.2.0  
 Source: Ericsson LM*

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

**S5-201360 Work Item Exception for Closed loop SLS Assurance**

*Type: WI exception request For: Information  
 Source: Ericsson LM*

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

**S5-201505 Draft TS 28.535**

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

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

#### 6.4.10 Streaming trace reporting

**S5-201418 Add streaming format for Trace Record Reporting**

*Type: CR For: Agreement  
 32.423 v15.1.0 CR-0101 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201490**.

**S5-201490 Add streaming format for Trace Record Reporting**

*Type: CR For: Agreement  
 32.423 v15.1.0 CR-0101 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201418)

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

**S5-201476 Exception sheet for WI OAM\_RTT**

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

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

#### 6.4.11 KPI reporting

**S5-201119 Rel-16 CR TS 28.554 Update KPI definitions to align with the new template**

*Type: CR For: Agreement  
 28.554 v16.3.0 CR-0038 Cat: F (Rel-16)  
  
 Source: China Telecommunications, ZTE, Huawei*

**Decision:** The document was **revised to S5-201522**.

**S5-201522 Rel-16 CR TS 28.554 Update KPI definitions to align with the new template**

*Type: CR For: Agreement  
 28.554 v16.3.0 CR-0038 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecommunications, ZTE, Huawei*

(Replaces S5-201119)

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

**S5-201200 Rel-16 CR TS 28.622 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.622 v16.2.0 CR-0069 Cat: B (Rel-16)  
  
 Source: ZTE, China Telecom*

**Decision:** The document was **revised to S5-201581**.

**S5-201581 Rel-16 CR TS 28.622 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.622 v16.2.0 CR-0069 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE, China Telecom*

(Replaces S5-201200)

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

**S5-201203 Rel-16 CR TS 28.623 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.623 v16.2.0 CR-0041 Cat: B (Rel-16)  
  
 Source: ZTE, China Telecom*

**Decision:** The document was **revised to S5-201582**.

**S5-201582 Rel-16 CR TS 28.623 Add configurable KPI control NRM**

*Type: CR For: Agreement  
 28.623 v16.2.0 CR-0041 rev 1 Cat: B (Rel-16)  
  
 Source: ZTE, China Telecom*

(Replaces S5-201203)

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

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

**S5-201139 Rel-16 CR TS 25.552 Add the measurement of PCI of candidate cells**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0178 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201140 Rel-16 CR TS 25.552 Add measurements related to RACH optimization**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0179 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201141 Rel-16 CR TS 25.552 Add handover measurements related to MRO**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0180 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201142 Rel-16 CR TS 25.552 Add IOCs to support SON functions**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0236 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201143 pCR 28.313 LBO use cases**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201144 pCR 28.313 LBO procedures**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201145 pCR 28.313 LBO information**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201146 pCR 28.313 changes to PCI configuration**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201147 pCR 28.313 changes to MRO**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201583**.

**S5-201583 pCR 28.313 changes to MRO**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201147)

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

**S5-201148 pCR 28.313 changes to RACH optimization**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S5-201584**.

**S5-201584 pCR 28.313 changes to RACH optimization**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S5-201148)

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

**S5-201176 Rel-16 CR TS 28.552 Add Random Access Preambles measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0185 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-201557**.

**S5-201557 Rel-16 CR TS 28.552 Add Random Access Preambles measurements**

*Type: CR For: Approval  
 28.552 v16.4.0 CR-0185 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-201176)

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

**S5-201260 Rel-16 CR TS 28.541 Add the NRM fragement for ANR management**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0246 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201261 Rel-16 CR TS 28.541 Add the NRM fragement for PCI configuration**

*Type: CR For: Agreement  
 28.541 v16.3.0 CR-0247 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201322 pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Huawei,China Telecom*

**Decision:** The document was **revised to S5-201585**.

**S5-201585 pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Huawei,China Telecom*

(Replaces S5-201322)

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

**S5-201371 Correct CR implementation errors**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0254 Cat: F (Rel-16)  
  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-201586**.

**S5-201586 Correct CR implementation errors**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0254 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-201371)

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

**S5-201376 pCR 28.313 Replace duplicated ANR management Stage 2 with reference**

*Type: pCR For: Approval  
 28.313 v0.2.0  
 Source: Ericsson France S.A.S*

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

**S5-201414 Rel-16 CR TS 25.541 Add the stage 3 solution for SOM attributes**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0256 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201416 Rel-16 CR TS 25.541 Add IOCs to support SON functions**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0257 Cat: B (Rel-16)  
  
 Source: Intel Corporation (UK) Ltd*

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

**S5-201500 Draft TR 28.313**

*Type: draft TR For: discussion  
 28.313 v0.3.0  
 Source: Intel*

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

**S5-201524 Rel-16 Work Item Exception for SON\_5G**

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

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

**S5-201525 LS on the status update of the SON support for NR works**

*Type: LS out For: Approval  
 to RAN2,RAN3  
 Source: Intel*

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

#### 6.4.13 Enhancement of 3GPP management system for multiple tenant environment support

**S5-201311 Rel16 CR 28.530 Add tenant concept associated to CSI consumer**

*Type: CR For: Agreement  
 28.530 v16.1.0 CR-0018 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201312 Rel16 CR 28.533 Add clarifications to concept description**

*Type: CR For: Agreement  
 28.533 v16.2.0 CR-0059 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201381 TD tenant information to support multi-tenancy environment**

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

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

**S5-201531 Rel-16 Work Item Exception for MEMTANE**

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

**Decision:** The document was **revised to S5-201607**.

**S5-201607 Rel-16 Work Item Exception for MEMTANE**

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

(Replaces S5-201531)

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

#### 6.4.14 Management Aspects of 5G Service-Level Agreement

**S5-201262 Rel-16 CR TS 28.541 Update on slice NRM and solution sets**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0248 Cat: F (Rel-16)  
  
 Source: Huawei, China Mobile*

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

**S5-201273 CR TS 28.541 Update attribute properties of resourceSharingLevel**

*Type: CR For: Approval  
 28.541 v16.3.0 CR-0249 Cat: B (Rel-16)  
  
 Source: China Mobile E-Commerce Co.*

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

**S5-201382 TD proposal for network slice isolation attribute**

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

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

**S5-201383 TD proposal for tolerance indicator attribute**

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

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

**S5-201386 Endorsement for GST parameters in Rel-16 and 17**

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

**Decision:** The document was **revised to S5-201497**.

**S5-201497 Endorsement for GST parameters in Rel-16 and 17**

*Type: discussion For: -  
 Source: Ericsson*

(Replaces S5-201386)

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

**S5-201470 Revised WID for MA5SLA**

*Type: WID revised For: Agreement  
 Source: China Mobile*

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

#### 6.4.15 Management of MDT in 5G

**S5-201164 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 **postponed**.

**S5-201165 LS to SA5 on trace related configurations for NR MDT**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1916598*

**Decision:** The document was **replied to in S5-201424**.

**S5-201353 Add MDT requirements for NR**

*Type: CR For: Agreement  
 32.421 v16.0.0 CR-0093 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201591**.

**S5-201591 Add MDT requirements for NR**

*Type: CR For: Agreement  
 32.421 v16.0.0 CR-0093 rev 1 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201353)

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

**S5-201358 Alignment with RAN2, Replace area based MDT with management based MDT**

*Type: CR For: Agreement  
 32.421 v16.0.0 CR-0094 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201366 Alignment with RAN2, Replace area based MDT with management based MDT**

*Type: CR For: Agreement  
 32.421 v16.0.0 CR-0095 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201368 Alignment with RAN2, Replace area based MDT with management based MDT**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0314 Cat: F (Rel-16)  
  
 Source: Oy LM Ericsson AB*

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

**S5-201370 Add MDT trace record for NR measurements**

*Type: CR For: Agreement  
 32.423 v15.1.0 CR-0100 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201587**.

**S5-201587 Add MDT trace record for NR measurements**

*Type: CR For: Agreement  
 32.423 v15.1.0 CR-0100 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201370)

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

**S5-201374 Add anonymization of MDT data for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0315 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201535**.

**S5-201535 Add anonymization of MDT data for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0315 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201374)

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

**S5-201375 Add MDT signalling activation and deactionvation mechanisms for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0316 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201589**.

**S5-201589 Add MDT signalling activation and deactionvation mechanisms for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0316 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201375)

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

**S5-201407 Add MDT management activation and deactionvation mechanism for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0317 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201590**.

**S5-201590 Add MDT management activation and deactionvation mechanism for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0317 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201407)

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

**S5-201409 Add MDT specific configuration parameters for 5G**

*Type: CR For: Approval  
 32.422 v16.0.0 CR-0318 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201588**.

**S5-201588 Add MDT specific configuration parameters for 5G**

*Type: CR For: Approval  
 32.422 v16.0.0 CR-0318 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201409)

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

**S5-201410 Add MDT user consent handling for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0319 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201536**.

**S5-201536 Add MDT user consent handling for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0319 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201410)

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

**S5-201412 Add MDT trace recording session start and stop mechanism for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0320 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

**Decision:** The document was **revised to S5-201592**.

**S5-201592 Add MDT trace recording session start and stop mechanism for 5G**

*Type: CR For: Agreement  
 32.422 v16.0.0 CR-0320 rev 1 Cat: B (Rel-16)  
  
 Source: Oy LM Ericsson AB*

(Replaces S5-201412)

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

**S5-201424 Reply to LS to SA5 on trace related configurations for NR MDT**

*Type: LS out For: (not specified)  
 to RAN2  
 Source: Ericsson LM*

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

#### 6.4.16 5G management capabilities

**S5-201108 pCR TS 28.537 First draft with Edithelp comments and text in Scope**

*Type: draft TS For: Approval  
 28.537 v0.1.0  
 Source: Orange*

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

**S5-201109 Revised WID on 5G management capabilities**

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

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

**S5-201110 Presentation of TS 28.537 for Information and approval to SA#87**

*Type: TS or TR cover For: Approval  
 28.537 v..  
 Source: Orange*

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

### 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

### 6.6 OAM&P Studies

#### 6.6.1 Study on protocol enhancement for real time communication

#### 6.6.2 Study on non-public networks management

**S5-201256 pCR 28.807 Network Slice as a Service in the management of PNI-NPN**

*Type: pCR For: Approval  
 28.807 v0.3.0  
 Source: TELEFONICA S.A.*

**Abstract:**

It is proposed to include Network Slice as a Service as a service delivery model in the management of public network integrated NPN (PNI-NPN), when this NPN is supported by a PLMN provided network slice instance.

**Decision:** The document was **revised to S5-201596**.

**S5-201596 pCR 28.807 Network Slice as a Service in the management of PNI-NPN**

*Type: pCR For: Approval  
 28.807 v0.3.0  
 Source: TELEFONICA S.A.*

(Replaces S5-201256)

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

**S5-201263 pCR 28.807 Add introduction**

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

**Decision:** The document was **revised to S5-201593**.

**S5-201593 pCR 28.807 Add introduction**

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

(Replaces S5-201263)

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

**S5-201264 pCR 28.807 pCR 28.807 Solutions and conclusion for mgmt of SNPN**

*Type: pCR For: Approval  
 28.807 v0.3.0  
 Source: Huawei, Telefonica*

**Decision:** The document was **revised to S5-201594**.

**S5-201594 pCR 28.807 pCR 28.807 Solutions and conclusion for mgmt of SNPN**

*Type: pCR For: Approval  
 28.807 v0.3.0  
 Source: Huawei, Telefonica*

(Replaces S5-201264)

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

**S5-201265 pCR 28.807 Solutions and conclusion for mgmt of PNI-NPN**

*Type: pCR For: Approval  
 28.807 v0.3.0  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-201595**.

**S5-201595 pCR 28.807 Solutions and conclusion for mgmt of PNI-NPN**

*Type: pCR For: Approval  
 28.807 v0.3.0  
 Source: Huawei, China Mobile*

(Replaces S5-201265)

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

**S5-201266 Presentation of TR 28.807 to SA for Information**

*Type: TS or TR cover For: Approval  
 28.807 v..  
 Source: Huawei*

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

**S5-201503 Draft TR 28.807**

*Type: draft TR For: Approval  
 28.807 v0.4.0  
 Source: Huawei*

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

#### 6.6.3 Study on management and orchestration aspects with integrated satellite components in a 5G network

**S5-201280 Small editorial corrections**

*Type: pCR For: Approval  
 28.808 v0.4.0  
 Source: TNO*

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

#### 6.6.4 Study on enhancement of Management Data Analytics Service

**S5-201251 pCR 28.809 Add load balancing optimization use case**

*Type: pCR For: Approval  
 28.809 v0.2.0  
 Source: China Mobile E-Commerce Co.*

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

**S5-201253 pCR 28.809 Modification on Management Interaction with NWDAF**

*Type: pCR For: (not specified)  
 28.809 v0.2.0  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-201491**.

**S5-201491 pCR 28.809 Modification on Management Interaction with NWDAF**

*Type: pCR For: -  
 28.809 v0.2.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-201253)

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

**S5-201275 pCR 28.809 Modification on Management Interaction with NWDAF**

*Type: pCR For: (not specified)  
 28.809 v0.2.0  
 Source: China Mobile Com. Corporation*

**Abstract:**

The contribution is to add the interaction between MDA and RAN with RAN as a MDAS consumer.

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

**S5-201276 pCR 28.809 Add load balancing optimization use case**

*Type: pCR For: (not specified)  
 28.809 v0.2.0  
 Source: China Mobile Com. Corporation*

**Abstract:**

It proposes to add a use case to TR 28.809

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

**S5-201315 pCR 28.809 Use case and potential solutions of MDA assisted EE**

*Type: pCR For: (not specified)  
 28.809 v0.2.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd., China Telecommunications*

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

**S5-201316 pCR 28.809 Add the use cases related to SLA assurance**

*Type: pCR For: (not specified)  
 28.809 v0.2.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

**Decision:** The document was **revised to S5-201492**.

**S5-201492 pCR 28.809 Add the use cases related to SLA assurance**

*Type: pCR For: -  
 28.809 v0.2.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

(Replaces S5-201316)

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

**S5-201327 pCR 28.809 addition of resource utilization analysis solution**

*Type: pCR For: Approval  
 28.809 v0.2.0  
 Source: ETRI*

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

**S5-201510 draft TR 28.809**

*Type: draft TR For: Approval  
 28.809 v0.3.0  
 Source: Intel*

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

#### 6.6.5 Study on autonomous network levels

**S5-201201 pCR TS 28.810 Add Self-healing scenario for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: CATT*

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

**S5-201202 pCR TS 28.810 Add Self-healing scenario for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: CATT*

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

**S5-201241 pCR TS 28.810 Add Resource optimization scenario for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-201493**.

**S5-201493 pCR TS 28.810 Add Resource optimization scenario for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: CATT*

(Replaces S5-201241)

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

**S5-201323 pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: Huawei,China Mobile,China Unicom, ZTE*

**Decision:** The document was **revised to S5-201494**.

**S5-201494 pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: Huawei,China Mobile,China Unicom, ZTE*

(Replaces S5-201323)

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

**S5-201324 pCR 28.810 Update Clause 4.4 Potential dimension for classification of network autonomy**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: China Mobile, Huawei, China Unicom, ZTE*

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

**S5-201326 pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: China Mobile, Huawei, China Unicom, ZTE*

**Decision:** The document was **revised to S5-201495**.

**S5-201495 pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for network autonomy level**

*Type: pCR For: Approval  
 28.810 v0.2.0  
 Source: China Mobile, CATT,Huawei, China Unicom, ZTE*

(Replaces S5-201326)

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

**S5-201501 Draft TR 28.810**

*Type: draft TR For: Approval  
 28.810 v0.3.0  
 Source: China Mobile*

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

#### 6.6.6 Study on network slice management enhancements

## 7 Charging

### 7.1 Charging Plenary

**S5-201102 SA5#129e CH E-Meeting process**

*Type: discussion For: Information  
 Source: CH SWG Chair*

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

**S5-201159 LS reply on Reply LS on supporting simultaneous online and offline reporting level access**

*Type: LS out For: Approval  
 to SA2, cc CT3  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201457**.

**S5-201170 Reply LS to SA5 on supporting simultaneous online and offline reporting level access**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-1912278*

**Decision:** The document was **replied to**.

**S5-201422 CH Agenda and Time Plan**

*Type: agenda For: (not specified)  
 Source: CH SWG Chair*

**Decision:** The document was **revised to S5-201466**.

**S5-201457 LS reply on Reply LS on supporting simultaneous online and offline reporting level access**

*Type: LS out For: Approval  
 to SA2, cc CT3  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201159)

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

**S5-201466 CH Agenda and Time Plan**

*Type: agenda For: (not specified)  
 Source: CH SWG Chair*

(Replaces S5-201422)

**Decision:** The document was **revised to S5-201572**.

**S5-201572 CH Agenda and Time Plan**

*Type: agenda For: -  
 Source: CH SWG Chair*

(Replaces S5-201466)

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

### 7.2 New Charging Work Item proposals

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-201104 Rel-15 CR 32.298 Correction ASN.1 syntax**

*Type: CR For: Agreement  
 32.298 v15.9.0 CR-0793 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201105 Rel-16 CR 32.298 Correction ASN.1 syntax**

*Type: CR For: Agreement  
 32.298 v16.3.0 CR-0794 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201465**.

**S5-201238 Rel-16 CR 32.290 Clarification of quota handling**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0107 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-201239 Rel-16 CR 32.298 Incomplete indicator missing in CDR**

*Type: CR For: Agreement  
 32.298 v16.3.0 CR-0795 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-201448**.

**S5-201242 Rel-16 CR 32.298 Missing diagnostics for Nchf**

*Type: CR For: Agreement  
 32.298 v16.3.0 CR-0796 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S5-201243 Rel-16 CR 32.298 Heading corrections**

*Type: CR For: Agreement  
 32.298 v16.3.0 CR-0797 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-201449**.

**S5-201244 Rel-15 CR 32.291 Correction of non-backward compatible change of usedUnitContainer**

*Type: CR For: Agreement  
 32.291 v15.5.0 CR-0204 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S5-201342 Rel-16 CR 32.291 Correction to tariffTimeChange with UTC format**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0185 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197360)

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

**S5-201427 Rel-16 CR 32.291 Correct the style for TriggerType in OpenAPI**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0208 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-201448 Rel-16 CR 32.298 Incomplete indicator missing in CDR**

*Type: CR For: Approval  
 32.298 v16.3.0 CR-0795 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-201239)

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

**S5-201449 Rel-16 CR 32.298 Heading corrections**

*Type: CR For: Approval  
 32.298 v16.3.0 CR-0797 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-201243)

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

**S5-201465 Rel-16 CR 32.298 Correction ASN.1 syntax**

*Type: CR For: Agreement  
 32.298 v16.3.0 CR-0794 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201105)

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

**S5-201571 Rel-16 CR 32.291 Update OpenAPI version**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0209 Cat: B (Rel-16)  
  
 Source: Huawei*

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

### 7.4 Rel-16 Charging

#### 7.4.1 IMS Charging in 5G System Architecture

#### 7.4.2 Charging aspects of Enhancing Topology of SMF and UPF in 5G Networks

**S5-201106 Rel-16 CR 32.255 Introduction of V-SMF change in Roaming HR - principles**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0167 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201459**.

**S5-201154 Rel-16 CR 32.291 Update of Serving Network Function ID**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0199 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201160 Rel-16 CR 32.255 Introduction of V-SMF Change in Roaming HR - flows**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0172 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201460**.

**S5-201225 Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0182 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201451**.

**S5-201226 Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion.**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0183 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201433**.

**S5-201227 Rel-16 CR 32.255 Correct PDU session establishment procedure with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0184 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201434**.

**S5-201292 Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0191 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201293 Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion.**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0192 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201294 Rel-16 CR 32.255 Correct PDU session establishment procedure with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0193 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201328 Rel-16 CR 32.255 Addition of PSA2 and UL CL or BP controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0200 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-201458**.

**S5-201329 Rel-16 CR 32.255 Change of PSA2 for UL CL or BP controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0201 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-201330 Rel-16 CR 32.255 Removal of PSA2 and UL CL or BP controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0202 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-201331 Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0203 Cat: B (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-201452**.

**S5-201340 Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF**

*Type: CR For: Approval  
 32.255 v16.3.0 CR-0140 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197066)

**Decision:** The document was **revised to S5-201453**.

**S5-201341 Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF**

*Type: CR For: Approval  
 32.255 v16.3.0 CR-0141 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-197067)

**Decision:** The document was **revised to S5-201455**.

**S5-201433 Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0183 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201226)

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

**S5-201434 Correct PDU session establishment procedure with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0184 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201227)

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

**S5-201451 Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0182 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-201225)

**Decision:** The document was **revised to S5-201573**.

**S5-201573 Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0182 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei*

(Replaces S5-201451)

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

**S5-201452 Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0203 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-201331)

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

**S5-201453 Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF**

*Type: CR For: Approval  
 32.255 v16.3.0 CR-0140 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-201340)

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

**S5-201455 Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF**

*Type: CR For: Approval  
 32.255 v16.3.0 CR-0141 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-201341)

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

**S5-201458 Rel-16 CR 32.255 Adding/removal/change of PSA2 and UL CL or BP controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0200 rev 1 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces S5-201328)

**Decision:** The document was **revised to S5-201574**.

**S5-201574 Rel-16 CR 32.255 Adding/removal/change of PSA2 and UL CL or BP controlled by I-SMF**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0200 rev 2 Cat: B (Rel-16)  
  
 Source: Ericsson, Huawei*

(Replaces S5-201458)

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

**S5-201459 Rel-16 CR 32.255 Introduction of V-SMF change in Roaming HR - principles**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0167 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201106)

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

**S5-201460 Rel-16 CR 32.255 Introduction of V-SMF Change in Roaming HR - flows**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0172 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201160)

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

#### 7.4.3 Network Slice Performance and Analytics Charging in 5G System

**S5-201162 Rel-16 pCR 28.201 Add performance and analytics inputs to clause 5.1.3**

*Type: pCR For: Approval  
 28.201 v0.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-201446**.

**S5-201216 Rel-16 pCR 28.201 Update of the Reference**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-201445**.

**S5-201217 Rel-16 pCR 28.201 Add charging requirements**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-201431**.

**S5-201218 Rel-16 pCR 28.201 Add message content**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-201432**.

**S5-201219 Rel-16 pCR 28.201 Add message flow**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201220 Rel-16 pCR 28.201 Update of the Terms, Symbols and Abbreviations**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-201444**.

**S5-201221 Rel-16 pCR 28.201 Add Basic Principles to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-201443**.

**S5-201222 Rel-16 pCR 28.201 Add applicable triggers to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-201442**.

**S5-201223 Rel-16 pCR 28.201 Add MnF message flows to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201224 Rel-16 pCR 28.201 Add NWDAF message flows to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201246 Rel-16 pCR 28.201 Adding charging scenarios principles**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Ericsson*

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

**S5-201248 Rel-16 pCR 28.201 Addition of flow section**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Ericsson*

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

**S5-201249 Rel-16 pCR 28.201 Addition of CSIF and CHF flows**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-201450**.

**S5-201283 Rel-16 pCR 28.201 Update of the Reference,Terms, Symbols and Abbreviations**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201284 Rel-16 pCR 28.201 Add charging requirements**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201285 Rel-16 pCR 28.201 Add message content**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201286 Rel-16 pCR 28.201 Add message flow**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201287 Rel-16 pCR 28.201 Update of the Terms, Symbols and Abbreviations**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201288 Rel-16 pCR 28.201 Add Basic Principles to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201289 Rel-16 pCR 28.201 Add applicable triggers to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201290 Rel-16 pCR 28.201 Add MnF message flows to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201291 Rel-16 pCR 28.201 Add MnF message flows to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

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

**S5-201428 Rel-16 WIException for Network Slice performance and Analytics Charging in 5GS**

*Type: WI exception request For: (not specified)  
 Source: Huawei*

**Decision:** The document was **revised to S5-201467**.

**S5-201431 Rel16 pCR 28.801 Add requirements**

*Type: pCR For: Approval  
 28.201 v0.2.0  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201217)

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

**S5-201432 Rel16 pCR 28.801 Add message content**

*Type: pCR For: Approval  
 28.201 v0.2.0  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201218)

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

**S5-201442 Rel-16 pCR 28.201 Add applicable triggers to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

(Replaces S5-201222)

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

**S5-201443 Rel-16 pCR 28.201 Add Basic Principles to clause 5.2**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

(Replaces S5-201221)

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

**S5-201444 Rel-16 pCR 28.201 Introduction of Reference point to the Billing system**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

(Replaces S5-201220)

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

**S5-201445 Rel-16 pCR 28.201 Update of the Reference**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Huawei*

(Replaces S5-201216)

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

**S5-201446 Rel-16 pCR 28.201 Add performance and analytics inputs to clause 5.1.3**

*Type: pCR For: Approval  
 28.201 v0.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-201162)

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

**S5-201450 Rel-16 pCR 28.201 Addition of CSIF and CHF flows**

*Type: pCR For: Agreement  
 28.201 v0.2.0  
 Source: Ericsson*

(Replaces S5-201249)

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

**S5-201467 Rel-16 WI Exception for Network Slice performance and Analytics Charging in 5GS**

*Type: WI exception request For: (not specified)  
 Source: Huawei*

(Replaces S5-201428)

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

**S5-201570 Draft TS 28.201**

*Type: draft TS For: Approval  
 28.201 v0.3.0  
 Source: Huawei*

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

#### 7.4.4 Network Slice Management Charging in 5G System

**S5-201281 Rel-16 WI Exception for Network Slice Management Charging in 5GS**

*Type: WI exception request For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201373 Create initial text for the Scope clause.**

*Type: pCR For: Approval  
 28.202 v0.0.0  
 Source: Openet Telecom*

**Abstract:**

This pCR is to add some initial text to the Scope clause of this specification.

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

#### 7.4.5 Charging Access Traffic Steering, Switching and Splitting in 5G system architecture

**S5-201155 Rel-16 CR 32.255 Introduction of ATSSS architecture reference and charging requirements**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0168 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201461**.

**S5-201156 Rel-16 CR 32.255 Introduction of MA PDU session and PCC Rules**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0169 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201462**.

**S5-201157 Rel-16 CR 32.255 Introduction of ATSSS flows**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0170 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-201464**.

**S5-201158 Rel-16 CR 32.255 Introduction of MA PDU session indicator**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0171 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201429 Rel-16 WI Exception for Charging Access Traffic Steering, Switching and Splitting in 5G system architecture**

*Type: WI exception request For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-201461 Rel-16 CR 32.255 Introduction of ATSSS architecture reference and charging requirements**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0168 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201155)

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

**S5-201462 Rel-16 CR 32.255 Introduction of MA PDU session and PCC Rules**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0169 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201156)

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

**S5-201464 Rel-16 CR 32.255 Introduction of ATSSS flows**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0170 rev 1 Cat: B (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-201157)

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

#### 7.4.6 Charging Aspect for 5WWC

**S5-201228 Rel-16 CR 32.255 Add 5WWC charging requirements**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0185 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201436**.

**S5-201229 Rel-16 CR 32.255 Add 5WWC architecture diagram**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0186 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201447**.

**S5-201230 Rel-16 CR 32.255 Add description on charging information**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0187 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201437**.

**S5-201231 Rel-16 CR 32.255 Add precedure for 5G RG+scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0188 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201438**.

**S5-201232 Rel-16 CR 32.255 Add precedure for FN RG scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0189 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201439**.

**S5-201233 Rel-16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0190 Cat: B (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-201440**.

**S5-201234 Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG**

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

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

**S5-201295 Rel-16 CR 32.255 Add 5WWC charging requirements**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0194 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201296 Rel-16 CR 32.255 Add 5WWC architecture diagram**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0195 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201297 Rel-16 CR 32.255 Add description on charging information**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0196 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201298 Rel-16 CR 32.255 Add precedure for 5G RG+scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0197 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201299 Rel-16 CR 32.255 Add precedure for FN RG scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0198 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201300 Rel-16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0199 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201301 Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0206 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201430 Rel-16 WI Exception for 5WWC charging**

*Type: WI exception request For: Approval  
 Source: Huawei Tech.(UK) Co., Ltd*

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

**S5-201436 Rel16 CR 32.255 Add 5WWC charging requirements**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0185 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201228)

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

**S5-201437 Rel16 CR 32.255 Add description on charging information**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0187 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201230)

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

**S5-201438 Rel16 CR 32.255 Add precedure for 5G RG scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0188 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201231)

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

**S5-201439 Rel16 CR 32.255 Add procedure for FN RG scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0189 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201232)

**Decision:** The document was **revised to S5-201454**.

**S5-201440 Rel16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0190 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201233)

**Decision:** The document was **revised to S5-201456**.

**S5-201447 Rel-16 CR 32.255 Add 5WWC architecture diagram**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0186 rev 1 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201229)

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

**S5-201454 Rel-16 CR 32.255 Add precedure for FN RG scenario**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0189 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201439)

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

**S5-201456 Rel16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0190 rev 2 Cat: B (Rel-16)  
  
 Source: Huawei Tech.(UK) Co., Ltd*

(Replaces S5-201440)

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

#### 7.4.7 CHF-controlled quota management

**S5-201235 Rel-16 CR 32.290 Suspend or resume quota management via the charging notify request**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0106 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201236 Rel-16 CR 32.291 Suspend or resume quota management via the charging notify request**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0203 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201237 Discussion paper on CHF controlled Quota management**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-201252 Rel-16 CR 32.290 Add unlimited quota in threshold triggers**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0108 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-201254 Rel-16 CR 32.291 Add unlimited quota**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0205 Cat: B (Rel-16)  
  
 Source: Ericsson*

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

**S5-201302 Rel-16 CR 32.290 Suspend or resume quota management via the charging notify request**

*Type: CR For: Agreement  
 32.290 v16.3.0 CR-0109 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201303 Rel-16 CR 32.291 Suspend or resume quota management via the charging notify request**

*Type: CR For: Agreement  
 32.291 v16.2.0 CR-0207 Cat: B (Rel-16)  
  
 Source: Huawei*

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

**S5-201304 Discussion paper on CHF controlled Quota management**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-201411 Introduce CHF-Controlled Quota Management**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0204 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-201441**.

**S5-201413 Add CHF-Controlled Quota Management**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0205 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-201415 Add quota management attributes**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0206 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-201435 Rel-16 Work Item Exception for CHF-Controlled Quota Management**

*Type: WI exception request For: Approval  
 Source: Amdocs Software Systems Ltd*

**Abstract:**

Exception request for CHF-Controlled Quota Management

**Decision:** The document was **revised to S5-201576**.

**S5-201576 Rel-16 Work Item Exception for CHF-Controlled Quota Management**

*Type: WI exception request For: Approval  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-201435)

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

**S5-201441 Introduce CHF-Controlled Quota Management**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0204 rev 1 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-201411)

**Decision:** The document was **revised to S5-201463**.

**S5-201463 Introduce CHF-Controlled Quota Management**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0204 rev 2 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-201441)

**Decision:** The document was **revised to S5-201575**.

**S5-201575 Introduce CHF-Controlled Quota Management**

*Type: CR For: Agreement  
 32.255 v16.3.0 CR-0204 rev 3 Cat: B (Rel-16)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-201463)

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

### 7.5 Charging Studies

## 8 Any Other Business

## 9 Closing of the meeting

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-201100 | Agenda | WG Chair | revised | - | S5-201338 |
| S5-201101 | SA5#129e E-Meeting process | WG Chair | revised | - | S5-201240 |
| S5-201102 | SA5#129e CH E-Meeting process | CH SWG Chair | merged | - | S5-201240 |
| S5-201103 | Rel-16 CR TS 28.541 Include PNF in network slice NRM fragment diagram | Orange | not pursued | - | - |
| S5-201104 | Rel-15 CR 32.298 Correction ASN.1 syntax | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201105 | Rel-16 CR 32.298 Correction ASN.1 syntax | Nokia, Nokia Shanghai Bell | revised | - | S5-201465 |
| S5-201106 | Rel-16 CR 32.255 Introduction of V-SMF change in Roaming HR - principles | Nokia, Nokia Shanghai Bell | revised | - | S5-201459 |
| S5-201107 | Rel-16 CR TS 28.531 Replace occurences of Management Function by Management Service | Orange | agreed | - | - |
| S5-201108 | pCR TS 28.537 First draft with Edithelp comments and text in Scope | Orange | approved | - | - |
| S5-201109 | Revised WID on 5G management capabilities | Orange | agreed | - | - |
| S5-201110 | Presentation of TS 28.537 for Information and approval to SA#87 | Orange | approved | - | - |
| S5-201111 | Rel-16 CR 28.531 Network Slice Identification Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | not pursued | - | - |
| S5-201112 | Rel-15 CR 28.531 Network Slice Identifiction Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | not pursued | - | - |
| S5-201113 | Rel 16 CR 28.541 NRM adding missing managedNFProfile Stage 2 and Stage 3 | Samsung R&D Institute UK | not pursued | - | - |
| S5-201114 | Rel-16 CR 28.541 nSIIdList NRM Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | not pursued | - | - |
| S5-201115 | Rel-15 CR 28.541 nSIIdList NRM Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | not pursued | - | - |
| S5-201116 | pCR TS 28.310 Add solution for distributed energy saving management | Orange | revised | - | S5-201484 |
| S5-201117 | Rel-15 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | revised | - | S5-201526 |
| S5-201118 | Rel-16 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | revised | - | S5-201527 |
| S5-201119 | Rel-16 CR TS 28.554 Update KPI definitions to align with the new template | China Telecommunications, ZTE, Huawei | revised | - | S5-201522 |
| S5-201120 | Add missing definition for matching-criteria-attributes | Ericsson Limited | agreed | - | - |
| S5-201121 | Add configurable FM. | Ericsson Limited | revised | - | S5-201548 |
| S5-201122 | Implement ME (instead of MF) relation to VNF | Ericsson Limited | not pursued | - | - |
| S5-201123 | Use new 28xyz for 28622 material | Ericsson Limited | noted | - | - |
| S5-201124 | Add missing definition for matching-criteria-attributes | Ericsson Limited | withdrawn | - | - |
| S5-201125 | Correct placement of notifyEvent definition stage 2 | Ericsson Limited | not pursued | - | - |
| S5-201126 | Add stage 3 notifyEvent stage 3 | Ericsson Limited | not pursued | - | - |
| S5-201127 | Clarify capability of ack alarms and filter constraint | Ericsson Limited | revised | - | S5-201553 |
| S5-201128 | Add notifyAlarmRecord | Ericsson Limited | not pursued | - | - |
| S5-201129 | Clarify NSI can be RAN resource only | Ericsson Limited | not pursued | - | - |
| S5-201130 | Rel-16 CR TS 28.540 Correction of requirement number | Ericsson LM | agreed | - | - |
| S5-201131 | pCR TS 28.310 Add requirement on energy saving reactivation | Nanjing Ericsson Panda Com Ltd | revised | - | S5-201485 |
| S5-201132 | Rel-16 CR TS 28.541 Correction of reference | Ericsson LM | agreed | - | - |
| S5-201133 | Rel-16 CR TS 28.552 Correction of PDCP Data Volume measurement name | Ericsson LM | agreed | - | - |
| S5-201134 | Rel-16 CR TS 28.552 Correction of text color | Ericsson LM | agreed | - | - |
| S5-201135 | Rel-16 CR TS 28.552 Correction of UE throughput measurements | Ericsson LM | revised | - | S5-201565 |
| S5-201136 | Rel-16 CR TS 28.554 Correction of equation color | Ericsson LM | agreed | - | - |
| S5-201137 | Rel-16 CR TS 28.552 Correction of Packet Drop Rate measurements | Ericsson LM | revised | - | S5-201566 |
| S5-201138 | Rel-16 CR TS 28.552 Correction of Packet Loss Rate measurements | Ericsson LM | revised | - | S5-201567 |
| S5-201139 | Rel-16 CR TS 25.552 Add the measurement of PCI of candidate cells | Intel Corporation (UK) Ltd | not pursued | - | - |
| S5-201140 | Rel-16 CR TS 25.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | merged | - | S5-201557 |
| S5-201141 | Rel-16 CR TS 25.552 Add handover measurements related to MRO | Intel Corporation (UK) Ltd | not pursued | - | - |
| S5-201142 | Rel-16 CR TS 25.552 Add IOCs to support SON functions | Intel Corporation (UK) Ltd | withdrawn | - | - |
| S5-201143 | pCR 28.313 LBO use cases | Intel Corporation (UK) Ltd | noted | - | - |
| S5-201144 | pCR 28.313 LBO procedures | Intel Corporation (UK) Ltd | noted | - | - |
| S5-201145 | pCR 28.313 LBO information | Intel Corporation (UK) Ltd | noted | - | - |
| S5-201146 | pCR 28.313 changes to PCI configuration | Intel Corporation (UK) Ltd | noted | - | - |
| S5-201147 | pCR 28.313 changes to MRO | Intel Corporation (UK) Ltd | revised | - | S5-201583 |
| S5-201148 | pCR 28.313 changes to RACH optimization | Intel Corporation (UK) Ltd | revised | - | S5-201584 |
| S5-201149 | Rel-16 CR TS 28.552 Add new measurements related to DRB Setup via Initial Context Setup | Ericsson LM | revised | - | S5-201569 |
| S5-201150 | Rel-16 CR TS 28.552 Correct measurements related to QoS flows | Ericsson LM | revised | - | S5-201577 |
| S5-201151 | Rel-16 CR TS 28.552 Correct PDU Data Volume measurements | Ericsson LM | not pursued | - | - |
| S5-201152 | New WID on management aspects for Edge Applications enablement | Samsung R&D Institute UK | revised | - | S5-201597 |
| S5-201153 | DP for new WID on management aspects for Edge Applications enablement | Samsung R&D Institute UK | noted | - | - |
| S5-201154 | Rel-16 CR 32.291 Update of Serving Network Function ID | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201155 | Rel-16 CR 32.255 Introduction of ATSSS architecture reference and charging requirements | Nokia, Nokia Shanghai Bell | revised | - | S5-201461 |
| S5-201156 | Rel-16 CR 32.255 Introduction of MA PDU session and PCC Rules | Nokia, Nokia Shanghai Bell | revised | - | S5-201462 |
| S5-201157 | Rel-16 CR 32.255 Introduction of ATSSS flows | Nokia, Nokia Shanghai Bell | revised | - | S5-201464 |
| S5-201158 | Rel-16 CR 32.255 Introduction of MA PDU session indicator | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-201159 | LS reply on Reply LS on supporting simultaneous online and offline reporting level access | Nokia, Nokia Shanghai Bell | revised | - | S5-201457 |
| S5-201160 | Rel-16 CR 32.255 Introduction of V-SMF Change in Roaming HR - flows | Nokia, Nokia Shanghai Bell | revised | - | S5-201460 |
| S5-201161 | Rel-16 CR TS 28.541 Add NRM fragment for energy saving management | Orange, Huawei | not pursued | - | - |
| S5-201162 | Rel-16 pCR 28.201 Add performance and analytics inputs to clause 5.1.3 | China Mobile Com. Corporation | revised | - | S5-201446 |
| S5-201163 | Reply LS to SA5 on QoE Measurement Collection | R2-1916328 | withdrawn | - | - |
| S5-201164 | LS to SA5 on EN-DC related MDT configuration details | R2-1916579 | postponed | - | - |
| S5-201165 | LS to SA5 on trace related configurations for NR MDT | R2-1916598 | replied to | - | - |
| S5-201166 | Resubmitted Reply LS to SA5 on clarification of OAM requirements for RIM | R3-197540 | noted | - | - |
| S5-201167 | Reply LS to SA5 on energy efficiency | R3-197745 | postponed | - | - |
| S5-201168 | Reply LS to SA5 on analytics support for energy saving | SP-191378 | replied to | - | - |
| S5-201169 | LS ccSA5 on analytics support for energy saving | S2-1912770 | replied to | - | - |
| S5-201170 | Reply LS to SA5 on supporting simultaneous online and offline reporting level access | S2-1912278 | replied to | - | S5-201457 |
| S5-201171 | Reply LS to SA5 on Application Architecture for enabling Edge Applications | S6-200306 | replied to | - | - |
| S5-201172 | LS to SA5 on Reply on QoE Measurement Collection | S4-200241 | postponed | - | - |
| S5-201173 | Reply LS on Application Architecture for enabling Edge Applications | Samsung R&D Institute UK | revised | - | S5-201598 |
| S5-201174 | pCR TS 28.310 Add solution for centralized energy saving management | Orange | approved | - | - |
| S5-201175 | Rel-16 CR TS 28.552 Add reference to RAN L2 measurement specification | Ericsson LM | revised | - | S5-201568 |
| S5-201176 | Rel-16 CR TS 28.552 Add Random Access Preambles measurements | Ericsson LM | revised | - | S5-201557 |
| S5-201177 | Rel-16 CR TS 28.552 Add measurement Average delay UL on over-the-air interface | Ericsson LM | revised | - | S5-201561 |
| S5-201178 | Rel-16 CR TS 28.552 Add Number of Active UEs measurements | Ericsson LM | revised | - | S5-201580 |
| S5-201179 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | revised | - | S5-201562 |
| S5-201180 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | revised | - | S5-201563 |
| S5-201181 | Rel-16 CR 28.552 Add measurements on RTT delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | revised | - | S5-201564 |
| S5-201182 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | revised | - | S5-201559 |
| S5-201183 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | revised | - | S5-201560 |
| S5-201184 | Rel-15 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | revised | - | S5-201528 |
| S5-201185 | Rel-16 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | revised | - | S5-201529 |
| S5-201186 | Rel-15 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | revised | - | S5-201533 |
| S5-201187 | Rel-16 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | revised | - | S5-201534 |
| S5-201188 | Rel-15 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | revised | - | S5-201537 |
| S5-201189 | Rel-16 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | revised | - | S5-201538 |
| S5-201190 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList in ServiceProfile and SliceProfile | Huawei | not pursued | - | - |
| S5-201191 | Rel-16 CR TS 28.541 Update the NR NRM to align with NG-RAN overview architecture | Huawei | revised | - | S5-201543 |
| S5-201192 | Rel-16 CR TS 28.541 Correct the xml solution set for NR | Huawei | withdrawn | - | - |
| S5-201193 | Rel-16 CR TS 28.541 Some correction the NR NRM | Huawei | agreed | - | - |
| S5-201194 | Rel-16 CR TS 28.533 Update Clause 5.3 Management service deployment based on ZSM framework | Huawei | revised | - | S5-201489 |
| S5-201195 | New WID on Self-Organizing Networks (SON) for 5G networks | Intel Corporation (UK) Ltd | revised | - | S5-201496 |
| S5-201196 | New WID on management aspects of edge computing | Intel Corporation (UK) Ltd | merged | - | S5-201597 |
| S5-201197 | Rel-16 CR TS 28.541 Fix merging errors of the specification | CATT, Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201198 | Rel-16 CR TS 28.541 Update NRM attribute definitions | CATT | revised | - | S5-201550 |
| S5-201199 | Rel-16 CR TS 28.541 Add NRPhysicalCellDU and NRCarrier NRM | ZTE Corporation | not pursued | - | - |
| S5-201200 | Rel-16 CR TS 28.622 Add configurable KPI control NRM | ZTE, China Telecom | revised | - | S5-201581 |
| S5-201201 | pCR TS 28.810 Add Self-healing scenario for classification of network autonomy levels | CATT | merged | - | S5-201495 |
| S5-201202 | pCR TS 28.810 Add Self-healing scenario for classification of network autonomy levels | CATT | withdrawn | - | - |
| S5-201203 | Rel-16 CR TS 28.623 Add configurable KPI control NRM | ZTE, China Telecom | revised | - | S5-201582 |
| S5-201216 | Rel-16 pCR 28.201 Update of the Reference | Huawei | revised | - | S5-201445 |
| S5-201217 | Rel-16 pCR 28.201 Add charging requirements | Huawei | revised | - | S5-201431 |
| S5-201218 | Rel-16 pCR 28.201 Add message content | Huawei | revised | - | S5-201432 |
| S5-201219 | Rel-16 pCR 28.201 Add message flow | Huawei | noted | - | - |
| S5-201220 | Rel-16 pCR 28.201 Update of the Terms, Symbols and Abbreviations | Huawei | revised | - | S5-201444 |
| S5-201221 | Rel-16 pCR 28.201 Add Basic Principles to clause 5.2 | Huawei | revised | - | S5-201443 |
| S5-201222 | Rel-16 pCR 28.201 Add applicable triggers to clause 5.2 | Huawei | revised | - | S5-201442 |
| S5-201223 | Rel-16 pCR 28.201 Add MnF message flows to clause 5.2 | Huawei | noted | - | - |
| S5-201224 | Rel-16 pCR 28.201 Add NWDAF message flows to clause 5.2 | Huawei | noted | - | - |
| S5-201225 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | revised | - | S5-201451 |
| S5-201226 | Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion. | Huawei | revised | - | S5-201433 |
| S5-201227 | Rel-16 CR 32.255 Correct PDU session establishment procedure with I-SMF insertion | Huawei | revised | - | S5-201434 |
| S5-201228 | Rel-16 CR 32.255 Add 5WWC charging requirements | Huawei | revised | - | S5-201436 |
| S5-201229 | Rel-16 CR 32.255 Add 5WWC architecture diagram | Huawei | revised | - | S5-201447 |
| S5-201230 | Rel-16 CR 32.255 Add description on charging information | Huawei | revised | - | S5-201437 |
| S5-201231 | Rel-16 CR 32.255 Add precedure for 5G RG+scenario | Huawei | revised | - | S5-201438 |
| S5-201232 | Rel-16 CR 32.255 Add precedure for FN RG scenario | Huawei | revised | - | S5-201439 |
| S5-201233 | Rel-16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei | revised | - | S5-201440 |
| S5-201234 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | not pursued | - | - |
| S5-201235 | Rel-16 CR 32.290 Suspend or resume quota management via the charging notify request | Huawei | not pursued | - | - |
| S5-201236 | Rel-16 CR 32.291 Suspend or resume quota management via the charging notify request | Huawei | not pursued | - | - |
| S5-201237 | Discussion paper on CHF controlled Quota management | Huawei | noted | - | - |
| S5-201238 | Rel-16 CR 32.290 Clarification of quota handling | Ericsson | not pursued | - | - |
| S5-201239 | Rel-16 CR 32.298 Incomplete indicator missing in CDR | Ericsson | revised | - | S5-201448 |
| S5-201240 | SA5#129e E-Meeting process | WG Vice Chair | revised | S5-201101 | S5-201421 |
| S5-201241 | pCR TS 28.810 Add Resource optimization scenario for classification of network autonomy levels | CATT | revised | - | S5-201493 |
| S5-201242 | Rel-16 CR 32.298 Missing diagnostics for Nchf | Ericsson | not pursued | - | - |
| S5-201243 | Rel-16 CR 32.298 Heading corrections | Ericsson | revised | - | S5-201449 |
| S5-201244 | Rel-15 CR 32.291 Correction of non-backward compatible change of usedUnitContainer | Ericsson | not pursued | - | - |
| S5-201245 | New WID on management aspect of Communication Services | Samsung R&D Institute UK | noted | - | - |
| S5-201246 | Rel-16 pCR 28.201 Adding charging scenarios principles | Ericsson | merged | - | S5-201443 |
| S5-201247 | Rel-16 pCR TS 28.535 Add UC on NWDAF assisted SLS Assurance | Samsung R&D Institute UK | revised | - | S5-201473 |
| S5-201248 | Rel-16 pCR 28.201 Addition of flow section | Ericsson | noted | - | - |
| S5-201249 | Rel-16 pCR 28.201 Addition of CSIF and CHF flows | Ericsson | revised | - | S5-201450 |
| S5-201250 | pCR 28.535 Add ManagementControlLoop Definition | China Mobile E-Commerce Co. | withdrawn | - | - |
| S5-201251 | pCR 28.809 Add load balancing optimization use case | China Mobile E-Commerce Co. | withdrawn | - | - |
| S5-201252 | Rel-16 CR 32.290 Add unlimited quota in threshold triggers | Ericsson | not pursued | - | - |
| S5-201253 | pCR 28.809 Modification on Management Interaction with NWDAF | China Mobile E-Commerce Co. | revised | - | S5-201491 |
| S5-201254 | Rel-16 CR 32.291 Add unlimited quota | Ericsson | not pursued | - | - |
| S5-201255 | New WID Enhancement on Management Aspects of 5G Service-Level Agreement | China Mobile E-Commerce Co. | revised | - | S5-201480 |
| S5-201256 | pCR 28.807 Network Slice as a Service in the management of PNI-NPN | TELEFONICA S.A. | revised | - | S5-201596 |
| S5-201257 | New SID New areas on EE for 5G networks | Orange | revised | - | S5-201477 |
| S5-201258 | New WID Enhancements on EE for 5G networks | Orange | revised | - | S5-201478 |
| S5-201259 | Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management | Huawei | revised | - | S5-201547 |
| S5-201260 | Rel-16 CR TS 28.541 Add the NRM fragement for ANR management | Huawei | not pursued | - | - |
| S5-201261 | Rel-16 CR TS 28.541 Add the NRM fragement for PCI configuration | Huawei | not pursued | - | - |
| S5-201262 | Rel-16 CR TS 28.541 Update on slice NRM and solution sets | Huawei, China Mobile | agreed | - | - |
| S5-201263 | pCR 28.807 Add introduction | Huawei | revised | - | S5-201593 |
| S5-201264 | pCR 28.807 pCR 28.807 Solutions and conclusion for mgmt of SNPN | Huawei, Telefonica | revised | - | S5-201594 |
| S5-201265 | pCR 28.807 Solutions and conclusion for mgmt of PNI-NPN | Huawei, China Mobile | revised | - | S5-201595 |
| S5-201266 | Presentation of TR 28.807 to SA for Information | Huawei | approved | - | - |
| S5-201267 | New WI on management of non-public networks | Huawei | revised | - | S5-201479 |
| S5-201268 | Add DL user plane packet delay measurement from PSA UPF to UE | ETRI | merged | - | S5-201559 |
| S5-201269 | Reply LS on analytics support for energy saving | Orange | revised | - | S5-201472 |
| S5-201271 | pCR TS 28.535 Add description of communication service assurance in the concept | China Mobile E-Commerce Co. | merged | - | S5-201488 |
| S5-201272 | Add UL user plane packet delay measurement from UE to PSA UPF | ETRI | merged | - | S5-201560 |
| S5-201273 | CR TS 28.541 Update attribute properties of resourceSharingLevel | China Mobile E-Commerce Co. | not pursued | - | - |
| S5-201274 | pCR 28.535 Add ManagementControlLoop Definition | China Mobile Com. Corporation | withdrawn | - | - |
| S5-201275 | pCR 28.809 Modification on Management Interaction with NWDAF | China Mobile Com. Corporation | withdrawn | - | - |
| S5-201276 | pCR 28.809 Add load balancing optimization use case | China Mobile Com. Corporation | withdrawn | - | - |
| S5-201277 | Rel-16 CR TS 28.532 Correction of MnS Stage 3 SSs for integration with ONAP VES | AT&T, Ericsson, Nokia, Orange,Huawei | revised | - | S5-201487 |
| S5-201278 | Rel-16 CR TS 28.541 Update of GNBCUUPFunction NRM | Ericsson LM | revised | - | S5-201545 |
| S5-201279 | pCR TR 28.812 Rapporteur cleanup | Huawei Device Co., Ltd | approved | - | - |
| S5-201280 | Small editorial corrections | TNO | withdrawn | - | - |
| S5-201281 | Rel-16 WI Exception for Network Slice Management Charging in 5GS | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201282 | pCR TR 28.812 Update Recommendation and Conclusion | Huawei Device Co., Ltd | revised | - | S5-201486 |
| S5-201283 | Rel-16 pCR 28.201 Update of the Reference,Terms, Symbols and Abbreviations | Huawei | withdrawn | - | - |
| S5-201284 | Rel-16 pCR 28.201 Add charging requirements | Huawei | withdrawn | - | - |
| S5-201285 | Rel-16 pCR 28.201 Add message content | Huawei | withdrawn | - | - |
| S5-201286 | Rel-16 pCR 28.201 Add message flow | Huawei | withdrawn | - | - |
| S5-201287 | Rel-16 pCR 28.201 Update of the Terms, Symbols and Abbreviations | Huawei | withdrawn | - | - |
| S5-201288 | Rel-16 pCR 28.201 Add Basic Principles to clause 5.2 | Huawei | withdrawn | - | - |
| S5-201289 | Rel-16 pCR 28.201 Add applicable triggers to clause 5.2 | Huawei | withdrawn | - | - |
| S5-201290 | Rel-16 pCR 28.201 Add MnF message flows to clause 5.2 | Huawei | withdrawn | - | - |
| S5-201291 | Rel-16 pCR 28.201 Add MnF message flows to clause 5.2 | Huawei | withdrawn | - | - |
| S5-201292 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | withdrawn | - | - |
| S5-201293 | Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion. | Huawei | withdrawn | - | - |
| S5-201294 | Rel-16 CR 32.255 Correct PDU session establishment procedure with I-SMF insertion | Huawei | withdrawn | - | - |
| S5-201295 | Rel-16 CR 32.255 Add 5WWC charging requirements | Huawei | withdrawn | - | - |
| S5-201296 | Rel-16 CR 32.255 Add 5WWC architecture diagram | Huawei | withdrawn | - | - |
| S5-201297 | Rel-16 CR 32.255 Add description on charging information | Huawei | withdrawn | - | - |
| S5-201298 | Rel-16 CR 32.255 Add precedure for 5G RG+scenario | Huawei | withdrawn | - | - |
| S5-201299 | Rel-16 CR 32.255 Add precedure for FN RG scenario | Huawei | withdrawn | - | - |
| S5-201300 | Rel-16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei | withdrawn | - | - |
| S5-201301 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | withdrawn | - | - |
| S5-201302 | Rel-16 CR 32.290 Suspend or resume quota management via the charging notify request | Huawei | withdrawn | - | - |
| S5-201303 | Rel-16 CR 32.291 Suspend or resume quota management via the charging notify request | Huawei | withdrawn | - | - |
| S5-201304 | Discussion paper on CHF controlled Quota management | Huawei | withdrawn | - | - |
| S5-201305 | Revised WID on Intent driven management service for mobile networks | Huawei Device Co., Ltd | revised | - | S5-201471 |
| S5-201306 | Rel16 CR 28.622 Update references related to NFV | Huawei | not pursued | - | - |
| S5-201307 | Rel16 CR 28.541 Update references related to NFV | Huawei | not pursued | - | - |
| S5-201308 | Rel16 CR 28.533 Update references related to NFV | Huawei | not pursued | - | - |
| S5-201309 | Rel16 CR 28.531 Update references related to NFV | Huawei | not pursued | - | - |
| S5-201310 | Rel16 CR 28.532 Update references related to NFV | Huawei | not pursued | - | - |
| S5-201311 | Rel16 CR 28.530 Add tenant concept associated to CSI consumer | Huawei | not pursued | - | - |
| S5-201312 | Rel16 CR 28.533 Add clarifications to concept description | Huawei | not pursued | - | - |
| S5-201313 | Rel-16 CR TS 28.552 Update the latency related measurements | HUAWEI TECHNOLOGIES Co. Ltd. | not pursued | - | - |
| S5-201314 | CR TS 28.533 Add the cooperation with CN and RAN | Huawei Device Co., Ltd | not pursued | - | - |
| S5-201315 | pCR 28.809 Use case and potential solutions of MDA assisted EE | HUAWEI TECHNOLOGIES Co. Ltd., China Telecommunications | approved | - | - |
| S5-201316 | pCR 28.809 Add the use cases related to SLA assurance | HUAWEI TECHNOLOGIES Co. Ltd. | revised | - | S5-201492 |
| S5-201317 | Rel-16 CR 28.541 Update of RRM Policy | Ericsson, Huawei, Nokia | agreed | S5-197638 | - |
| S5-201318 | Rel-16 CR TS 28.532 Rapporteur clean up | Huawei | agreed | - | - |
| S5-201319 | Rel-16 CR TS 28.532 Update the description for generic provisioning MnS | Huawei | not pursued | - | - |
| S5-201320 | Rel-16 CR TS 28.541 Clause 4.3.36 Update on RRMPolicyRatio | Huawei | not pursued | - | - |
| S5-201321 | Rel-16 CR TS 28.533 Add the description of methodology for integration of ONAP VES Collector and 3GPP MnS | Huawei | not pursued | - | - |
| S5-201322 | pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network | Huawei,China Telecom | revised | - | S5-201585 |
| S5-201323 | pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels | Huawei,China Mobile,China Unicom, ZTE | revised | - | S5-201494 |
| S5-201324 | pCR 28.810 Update Clause 4.4 Potential dimension for classification of network autonomy | China Mobile, Huawei, China Unicom, ZTE | approved | - | - |
| S5-201325 | R16 CR TS28.552 Add measurements for SSB beam handover | China Telecommunications, ZTE | revised | - | S5-201578 |
| S5-201326 | pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for network autonomy level | China Mobile, Huawei, China Unicom, ZTE | revised | - | S5-201495 |
| S5-201327 | pCR 28.809 addition of resource utilization analysis solution | ETRI | approved | - | - |
| S5-201328 | Rel-16 CR 32.255 Addition of PSA2 and UL CL or BP controlled by I-SMF | Ericsson | revised | - | S5-201458 |
| S5-201329 | Rel-16 CR 32.255 Change of PSA2 for UL CL or BP controlled by I-SMF | Ericsson | merged | - | S5-201574 |
| S5-201330 | Rel-16 CR 32.255 Removal of PSA2 and UL CL or BP controlled by I-SMF | Ericsson | merged | - | S5-201574 |
| S5-201331 | Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion | Ericsson | revised | - | S5-201452 |
| S5-201332 | R16 CR TS28.552 Modify Packet Delay measurements | ZTE Corporation | not pursued | - | - |
| S5-201333 | R16 CR TS28.552 Modify PRB usage measurements | ZTE, China Telecom | not pursued | - | - |
| S5-201334 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | Huawei,Ericsson | revised | S5-197634 | S5-201544 |
| S5-201335 | R16 CR TS28.552 Add RSRP measurements | ZTE, China Mobile | revised | - | S5-201579 |
| S5-201336 | R16 CR TS 28.552 Add TA related measurements | ZTE, China Mobile | withdrawn | - | - |
| S5-201337 | R16 CR TS 28.552 Add TA related measurements | ZTE, China Mobile | not pursued | - | - |
| S5-201338 | SA5#129e E-Meeting Agenda | WG Vice Chair (Huawei) | approved | S5-201100 | - |
| S5-201339 | Presentation of TS 28.310 for approval to SA#87 | Orange | approved | - | - |
| S5-201340 | Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF | Ericsson | revised | S5-197066 | S5-201453 |
| S5-201341 | Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF | Ericsson | revised | S5-197067 | S5-201455 |
| S5-201342 | Rel-16 CR 32.291 Correction to tariffTimeChange with UTC format | Ericsson | not pursued | S5-197360 | - |
| S5-201343 | YANG Guidelines Update | Ericsson España S.A. | agreed | - | - |
| S5-201344 | YANG\_Netconf Operations | Ericsson España S.A. | revised | - | S5-201539 |
| S5-201345 | pCR 28.535 Add ManagementControlLoop Definition | China Mobile E-Commerce Co. | merged | - | S5-201488 |
| S5-201346 | Align text in network slice subnet concepts with NRM | Ericsson LM,,Deutsche telekom | not pursued | - | - |
| S5-201347 | Align text in network slice subnet concepts with NRM | Ericsson LM,Deutsche telekom | not pursued | - | - |
| S5-201348 | Correct reference to NOTE in attribute properties table in clause 5.2.1.1 | Ericsson LM | agreed | - | - |
| S5-201349 | SA5 Rel-17 time plan proposal for OAM | SA5 Vice chair (Huawei) | noted | - | - |
| S5-201350 | Remove incorrect example from constraints table | Ericsson LM | agreed | - | - |
| S5-201351 | Resolution of Editors Note in clause W4.3 Class definitions | Ericsson LM | agreed | - | - |
| S5-201352 | New WID on Enhanced Closed loop SLS assurance | Ericsson LM,Deutsche telekom | revised | - | S5-201599 |
| S5-201353 | Add MDT requirements for NR | Oy LM Ericsson AB | revised | - | S5-201591 |
| S5-201354 | Discussion paper around Closed Loop SLS Assurance architecture | Ericsson LM | noted | - | - |
| S5-201355 | Add clauses to describe closed control loop interactions | Ericsson LM | not pursued | - | - |
| S5-201356 | Add text for clause 4.2 Management control loops | Ericsson LM | revised | - | S5-201488 |
| S5-201357 | Add control loop text for stage 2 | Ericsson LM | noted | - | - |
| S5-201358 | Alignment with RAN2, Replace area based MDT with management based MDT | Oy LM Ericsson AB | withdrawn | - | - |
| S5-201359 | Presentation of TS 28.536 for information to SA#87e | Ericsson LM | noted | - | - |
| S5-201360 | Work Item Exception for Closed loop SLS Assurance | Ericsson LM | agreed | - | - |
| S5-201361 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | revised | - | S5-201551 |
| S5-201362 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | revised | - | S5-201552 |
| S5-201363 | Rel-16 CR TS 28.541 Add Stage 3 NRM Info Model definitions for RRMPolicy and PLMNInfo related CRs | Ericsson LM | revised | - | S5-201546 |
| S5-201364 | Add missing LTE MDT trace record | Oy LM Ericsson AB | merged | - | S5-201526 |
| S5-201365 | Add configurable FM - YANG Solution | Ericsson España S.A. | revised | - | S5-201549 |
| S5-201366 | Alignment with RAN2, Replace area based MDT with management based MDT | Oy LM Ericsson AB | agreed | - | - |
| S5-201367 | Add missing LTE MDT trace record | Oy LM Ericsson AB | merged | - | S5-201527 |
| S5-201368 | Alignment with RAN2, Replace area based MDT with management based MDT | Oy LM Ericsson AB | agreed | - | - |
| S5-201369 | Add missing MDT trace record for LTE measurements | Oy LM Ericsson AB | revised | - | S5-201556 |
| S5-201370 | Add MDT trace record for NR measurements | Oy LM Ericsson AB | revised | - | S5-201587 |
| S5-201371 | Correct CR implementation errors | Ericsson France S.A.S | revised | - | S5-201586 |
| S5-201372 | New WID on management of MDT enhancement in 5G | Oy LM Ericsson AB | revised | - | S5-201481 |
| S5-201373 | Create initial text for the Scope clause. | Openet Telecom | withdrawn | - | - |
| S5-201374 | Add anonymization of MDT data for 5G | Oy LM Ericsson AB | revised | - | S5-201535 |
| S5-201375 | Add MDT signalling activation and deactionvation mechanisms for 5G | Oy LM Ericsson AB | revised | - | S5-201589 |
| S5-201376 | pCR 28.313 Replace duplicated ANR management Stage 2 with reference | Ericsson France S.A.S | approved | - | - |
| S5-201377 | correct ackState name | Ericsson Limited | revised | - | S5-201558 |
| S5-201378 | Add new Use cases into A.28 according to agreed CRs | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201379 | TD replance JSON with YAML in NRM | Nokia, Nokia Shanghai Bell | endorsed | - | - |
| S5-201380 | New WI proposal for REL17 NRM | Nokia, Nokia Shanghai Bell | revised | - | S5-201482 |
| S5-201381 | TD tenant information to support multi-tenancy environment | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-201382 | TD proposal for network slice isolation attribute | Nokia, Nokia Shanghai Bell | noted | - | - |
| S5-201383 | TD proposal for tolerance indicator attribute | Nokia, Nokia Shanghai Bell | noted | - | - |
| S5-201384 | Rel-15 CR 28.158 Clarify HTTP Patch methods | Nokia, Nokia Shanghai Bell | revised | - | S5-201555 |
| S5-201385 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | revised | - | S5-201540 |
| S5-201386 | Endorsement for GST parameters in Rel-16 and 17 | Ericsson | revised | - | S5-201497 |
| S5-201387 | Rel-16 CR 28.532 Clarify and add numerous issues in the REST SS of the ProvMnS | Nokia, Nokia Shanghai Bell | revised | - | S5-201541 |
| S5-201388 | pCR R16 28.307-020 Rapporteur's clean up | Ericsson | approved | - | - |
| S5-201389 | pCR R16 28.308-020 Rapporteur's clean up | Ericsson | approved | - | - |
| S5-201390 | Rel-16 CR 28.532 Remove subscribe and unsubscribe operation from ProvMnS | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-201391 | pCR R16 28.405-110 Rapporteur's clean up | Ericsson | approved | - | - |
| S5-201392 | Rel-16 CR 28.532 Correct OpenAPI definition of the ProvMnS | Nokia, Nokia Shanghai Bell | revised | - | S5-201542 |
| S5-201393 | Rel-16 CR 28.622 Correct HeartbeatControl IOC definition | Nokia, Nokia Shanghai Bell | revised | - | S5-201554 |
| S5-201394 | pCR R16 28.307-020 Remove SBA | Ericsson | approved | - | - |
| S5-201395 | Rel-16 CR 28.622 Add missing supported notifications of MeasurementReader, MeasurementControl and ThresholdMonitor | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-201396 | pCR R16 28.308-020 Remove SBA | Ericsson | approved | - | - |
| S5-201397 | Rel-16 CR 28.623 Add OpenAPI definitions required by the ProvMnS | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201398 | Removing Signalling Based Activation | Ericsson | agreed | - | - |
| S5-201399 | Rel-16 CR 28.541 Add OpenAPI definitions required by the ProvMnS | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201400 | TD Use YAML instead of JSON in the OpenAPI definitions of the REST SS | Nokia, Nokia Shanghai Bell | endorsed | - | - |
| S5-201401 | pCR R16 28.405-110 Remove SBA | Ericsson | approved | - | - |
| S5-201402 | TD Definition of SystemDN | Nokia, Nokia Shanghai Bell | noted | - | - |
| S5-201403 | Correct ackState attribute name | Ericsson Limited | agreed | - | - |
| S5-201404 | pCR R16 28.406-011 Remove SBA | Ericsson | approved | - | - |
| S5-201405 | New WID on QoE Measurement Collection in 5G and Signalling Based Activation for UMTS and LTE | Ericsson | revised | - | S5-201483 |
| S5-201406 | Correct Heartbeat | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201407 | Add MDT management activation and deactionvation mechanism for 5G | Oy LM Ericsson AB | revised | - | S5-201590 |
| S5-201408 | ME (instead of MF) relation to VNF in YANG | Ericsson España S.A. | not pursued | - | - |
| S5-201409 | Add MDT specific configuration parameters for 5G | Oy LM Ericsson AB | revised | - | S5-201588 |
| S5-201410 | Add MDT user consent handling for 5G | Oy LM Ericsson AB | revised | - | S5-201536 |
| S5-201411 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | revised | - | S5-201441 |
| S5-201412 | Add MDT trace recording session start and stop mechanism for 5G | Oy LM Ericsson AB | revised | - | S5-201592 |
| S5-201413 | Add CHF-Controlled Quota Management | Amdocs Software Systems Ltd | not pursued | - | - |
| S5-201414 | Rel-16 CR TS 25.541 Add the stage 3 solution for SOM attributes | Intel Corporation (UK) Ltd | not pursued | - | - |
| S5-201415 | Add quota management attributes | Amdocs Software Systems Ltd | not pursued | - | - |
| S5-201416 | Rel-16 CR TS 25.541 Add IOCs to support SON functions | Intel Corporation (UK) Ltd | not pursued | - | - |
| S5-201417 | Migrate SA5 Source files to Gitlab - step 1 | Ericsson España S.A. | withdrawn | - | - |
| S5-201418 | Add streaming format for Trace Record Reporting | Oy LM Ericsson AB | revised | - | S5-201490 |
| S5-201419 | Rel-16 CR 28.533 Correct definition of MnS and introduce term Service Based Management Architecture and its abbreviation SBMA | Nokia, Nokia Shanghai Bell | merged | - | S5-201600 |
| S5-201420 | SA5#129\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM | SA5 Vice Chair (Huawei) | revised | - | S5-201423 |
| S5-201421 | SA5#129e E-Meeting process | WG Vice Chair | noted | S5-201240 | - |
| S5-201422 | CH Agenda and Time Plan | CH SWG Chair | revised | - | S5-201466 |
| S5-201423 | SA5#129\_agenda\_with\_Tdocs\_sequence\_proposal\_OAM | SA5 Vice Chair (Huawei) | noted | S5-201420 | - |
| S5-201424 | Reply to LS to SA5 on trace related configurations for NR MDT | Ericsson LM | approved | - | - |
| S5-201425 | Add missing definition for matching-criteria-attributes | Ericsson Limited | agreed | - | - |
| S5-201426 | Reply LS to SA5 on QoE Measurement Collection | R2-1916328 | postponed | - | - |
| S5-201427 | Rel-16 CR 32.291 Correct the style for TriggerType in OpenAPI | Huawei | agreed | - | - |
| S5-201428 | Rel-16 WIException for Network Slice performance and Analytics Charging in 5GS | Huawei | revised | - | S5-201467 |
| S5-201429 | Rel-16 WI Exception for Charging Access Traffic Steering, Switching and Splitting in 5G system architecture | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-201430 | Rel-16 WI Exception for 5WWC charging | Huawei Tech.(UK) Co., Ltd | agreed | - | - |
| S5-201431 | Rel16 pCR 28.801 Add requirements | Huawei Tech.(UK) Co., Ltd | noted | S5-201217 | - |
| S5-201432 | Rel16 pCR 28.801 Add message content | Huawei Tech.(UK) Co., Ltd | approved | S5-201218 | - |
| S5-201433 | Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion | Huawei Tech.(UK) Co., Ltd | not pursued | S5-201226 | - |
| S5-201434 | Correct PDU session establishment procedure with I-SMF insertion | Huawei Tech.(UK) Co., Ltd | not pursued | S5-201227 | - |
| S5-201435 | Rel-16 Work Item Exception for CHF-Controlled Quota Management | Amdocs Software Systems Ltd | revised | - | S5-201576 |
| S5-201436 | Rel16 CR 32.255 Add 5WWC charging requirements | Huawei Tech.(UK) Co., Ltd | agreed | S5-201228 | - |
| S5-201437 | Rel16 CR 32.255 Add description on charging information | Huawei Tech.(UK) Co., Ltd | not pursued | S5-201230 | - |
| S5-201438 | Rel16 CR 32.255 Add precedure for 5G RG scenario | Huawei Tech.(UK) Co., Ltd | agreed | S5-201231 | - |
| S5-201439 | Rel16 CR 32.255 Add procedure for FN RG scenario | Huawei Tech.(UK) Co., Ltd | revised | S5-201232 | S5-201454 |
| S5-201440 | Rel16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei Tech.(UK) Co., Ltd | revised | S5-201233 | S5-201456 |
| S5-201441 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | revised | S5-201411 | S5-201463 |
| S5-201442 | Rel-16 pCR 28.201 Add applicable triggers to clause 5.2 | Huawei | approved | S5-201222 | - |
| S5-201443 | Rel-16 pCR 28.201 Add Basic Principles to clause 5.2 | Huawei | approved | S5-201221 | - |
| S5-201444 | Rel-16 pCR 28.201 Introduction of Reference point to the Billing system | Huawei | approved | S5-201220 | - |
| S5-201445 | Rel-16 pCR 28.201 Update of the Reference | Huawei | approved | S5-201216 | - |
| S5-201446 | Rel-16 pCR 28.201 Add performance and analytics inputs to clause 5.1.3 | China Mobile Com. Corporation | approved | S5-201162 | - |
| S5-201447 | Rel-16 CR 32.255 Add 5WWC architecture diagram | Huawei Tech.(UK) Co., Ltd | agreed | S5-201229 | - |
| S5-201448 | Rel-16 CR 32.298 Incomplete indicator missing in CDR | Ericsson | agreed | S5-201239 | - |
| S5-201449 | Rel-16 CR 32.298 Heading corrections | Ericsson | agreed | S5-201243 | - |
| S5-201450 | Rel-16 pCR 28.201 Addition of CSIF and CHF flows | Ericsson | approved | S5-201249 | - |
| S5-201451 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | revised | S5-201225 | S5-201573 |
| S5-201452 | Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion | Ericsson | agreed | S5-201331 | - |
| S5-201453 | Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF | Ericsson | agreed | S5-201340 | - |
| S5-201454 | Rel-16 CR 32.255 Add precedure for FN RG scenario | Huawei Tech.(UK) Co., Ltd | agreed | S5-201439 | - |
| S5-201455 | Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF | Ericsson | agreed | S5-201341 | - |
| S5-201456 | Rel16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei Tech.(UK) Co., Ltd | agreed | S5-201440 | - |
| S5-201457 | LS reply on Reply LS on supporting simultaneous online and offline reporting level access | Nokia, Nokia Shanghai Bell | approved | S5-201159 | - |
| S5-201458 | Rel-16 CR 32.255 Adding/removal/change of PSA2 and UL CL or BP controlled by I-SMF | Ericsson, Huawei | revised | S5-201328 | S5-201574 |
| S5-201459 | Rel-16 CR 32.255 Introduction of V-SMF change in Roaming HR - principles | Nokia, Nokia Shanghai Bell | agreed | S5-201106 | - |
| S5-201460 | Rel-16 CR 32.255 Introduction of V-SMF Change in Roaming HR - flows | Nokia, Nokia Shanghai Bell | agreed | S5-201160 | - |
| S5-201461 | Rel-16 CR 32.255 Introduction of ATSSS architecture reference and charging requirements | Nokia, Nokia Shanghai Bell | agreed | S5-201155 | - |
| S5-201462 | Rel-16 CR 32.255 Introduction of MA PDU session and PCC Rules | Nokia, Nokia Shanghai Bell | agreed | S5-201156 | - |
| S5-201463 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | revised | S5-201441 | S5-201575 |
| S5-201464 | Rel-16 CR 32.255 Introduction of ATSSS flows | Nokia, Nokia Shanghai Bell | agreed | S5-201157 | - |
| S5-201465 | Rel-16 CR 32.298 Correction ASN.1 syntax | Nokia, Nokia Shanghai Bell | agreed | S5-201105 | - |
| S5-201466 | CH Agenda and Time Plan | CH SWG Chair | revised | S5-201422 | S5-201572 |
| S5-201467 | Rel-16 WI Exception for Network Slice performance and Analytics Charging in 5GS | Huawei | agreed | S5-201428 | - |
| S5-201468 | Correct errors in yang solution set | Oy LM Ericsson AB | agreed | - | - |
| S5-201469 | Correct errors in yang solution set | Oy LM Ericsson AB | agreed | - | - |
| S5-201470 | Revised WID for MA5SLA | China Mobile | agreed | - | - |
| S5-201471 | Revised WID on Intent driven management service for mobile networks | Huawei Device Co., Ltd | agreed | S5-201305 | - |
| S5-201472 | Reply LS on analytics support for energy saving | ORANGE | approved | S5-201269 | - |
| S5-201473 | Rel-16 pCR TS 28.535 Add UC on NWDAF assisted SLS Assurance | Samsung R&D Institute UK | approved | S5-201247 | - |
| S5-201474 | Exception sheet for WI EE\_5G | ORANGE | agreed | - | - |
| S5-201475 | Exception sheet for WI TM\_SBMA | Nokia | agreed | - | - |
| S5-201476 | Exception sheet for WI OAM\_RTT | Nokia | agreed | - | - |
| S5-201477 | New SID New areas on EE for 5G networks | Orange | agreed | S5-201257 | - |
| S5-201478 | New WID Enhancements on EE for 5G networks | Orange | agreed | S5-201258 | - |
| S5-201479 | New WI on management of non-public networks | Huawei | agreed | S5-201267 | - |
| S5-201480 | New WID Enhancement on Management Aspects of 5G Service-Level Agreement | China Mobile E-Commerce Co. | agreed | S5-201255 | - |
| S5-201481 | New WID on management of MDT enhancement in 5G | Oy LM Ericsson AB | agreed | S5-201372 | - |
| S5-201482 | New WID on Additional NRM features | Nokia, Nokia Shanghai Bell | agreed | S5-201380 | - |
| S5-201483 | New WID on Enhancement of QoE Measurement Collection | Ericsson | agreed | S5-201405 | - |
| S5-201484 | pCR TS 28.310 Add solution for distributed energy saving management | Orange | approved | S5-201116 | - |
| S5-201485 | pCR TS 28.310 Add requirement on energy saving reactivation | Nanjing Ericsson Panda Com Ltd | approved | S5-201131 | - |
| S5-201486 | pCR TR 28.812 Update Recommendation and Conclusion | Huawei Device Co., Ltd | approved | S5-201282 | - |
| S5-201487 | Rel-16 CR TS 28.532 Correction of MnS Stage 3 SSs for integration with ONAP VES | AT&T, Ericsson, Nokia, Orange,Huawei | agreed | S5-201277 | - |
| S5-201488 | Add text for clause 4.2 Management control loops | Ericsson, China Mobile, Huawei, China Southern Power Grid Co | approved | S5-201356 | - |
| S5-201489 | Rel-16 CR TS 28.533 Update Clause 5.3 Management service deployment based on ZSM framework | Huawei, Ericsson, Deutsche Telekom | agreed | S5-201194 | - |
| S5-201490 | Add streaming format for Trace Record Reporting | Oy LM Ericsson AB | agreed | S5-201418 | - |
| S5-201491 | pCR 28.809 Modification on Management Interaction with NWDAF | China Mobile E-Commerce Co. | approved | S5-201253 | - |
| S5-201492 | pCR 28.809 Add the use cases related to SLA assurance | HUAWEI TECHNOLOGIES Co. Ltd. | approved | S5-201316 | - |
| S5-201493 | pCR TS 28.810 Add Resource optimization scenario for classification of network autonomy levels | CATT | approved | S5-201241 | - |
| S5-201494 | pCR 28.810 Update Clause 5.3 NE deployment scenario example for classification of network autonomy levels | Huawei,China Mobile,China Unicom, ZTE | approved | S5-201323 | - |
| S5-201495 | pCR 28.810 Update Clause 5.1 Fault RCA and recovery scenario example for network autonomy level | China Mobile, CATT,Huawei, China Unicom, ZTE | approved | S5-201326 | - |
| S5-201496 | New WID on Self-Organizing Networks (SON) for 5G networks | Intel Corporation (UK) Ltd | agreed | S5-201195 | - |
| S5-201497 | Endorsement for GST parameters in Rel-16 and 17 | Ericsson | endorsed | S5-201386 | - |
| S5-201498 | Rel-16 CR 28.533 Correct definition of MnS and introduce term Service Based Management Architecture and its abbreviation SBMA | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-201499 | Draft TR 28.812 | Huawei | approved | - | - |
| S5-201500 | Draft TR 28.313 | Intel | approved | - | - |
| S5-201501 | Draft TR 28.810 | China Mobile | approved | - | - |
| S5-201502 | OAM action list | WG vice chair (Huawei) | noted | - | - |
| S5-201503 | Draft TR 28.807 | Huawei | approved | - | - |
| S5-201504 | Draft TS 28.310 | ORANGE | approved | - | - |
| S5-201505 | Draft TS 28.535 | Ericsson | approved | - | - |
| S5-201506 | Draft TS 28.307 | Ericsson | approved | - | - |
| S5-201507 | Draft TS 28.308 | Ericsson | approved | - | - |
| S5-201508 | Draft TS 28.405 | Ericsson | approved | - | - |
| S5-201509 | Draft TS 28.406 | Ericsson | approved | - | - |
| S5-201510 | draft TR 28.809 | Intel | approved | - | - |
| S5-201511 | OAM report | WG Vice Chair (Huawei) | reserved | - | - |
| S5-201512 | OAM Conclusions | WG Chair | available | - | - |
| S5-201513 | OAM Chair notes and comments | WG Chair | available | - | - |
| S5-201514 | (reserved) | OAM | withdrawn | - | - |
| S5-201515 | (reserved) | OAM | withdrawn | - | - |
| S5-201516 | (reserved) | OAM | withdrawn | - | - |
| S5-201517 | (reserved) | OAM | withdrawn | - | - |
| S5-201518 | (reserved) | OAM | withdrawn | - | - |
| S5-201519 | (reserved) | OAM | withdrawn | - | - |
| S5-201520 | (reserved) | OAM | withdrawn | - | - |
| S5-201521 | Rel-16 Exception sheet for WI 5G\_SLICE\_ePA | Intel | agreed | - | - |
| S5-201522 | Rel-16 CR TS 28.554 Update KPI definitions to align with the new template | China Telecommunications, ZTE, Huawei | agreed | S5-201119 | - |
| S5-201523 | Exception sheet for WI 5GDMS | Huawei | agreed | - | - |
| S5-201524 | Rel-16 Work Item Exception for SON\_5G | Intel | agreed | - | - |
| S5-201525 | LS on the status update of the SON support for NR works | Intel | approved | - | - |
| S5-201526 | Rel-15 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | agreed | S5-201117 | - |
| S5-201527 | Rel-16 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | agreed | S5-201118 | - |
| S5-201528 | Rel-15 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | agreed | S5-201184 | - |
| S5-201529 | Rel-16 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | agreed | S5-201185 | - |
| S5-201530 | Rel-16 Exception sheet for eNRM | Nokia | agreed | - | - |
| S5-201531 | Rel-16 Work Item Exception for MEMTANE | Huawei | revised | - | S5-201607 |
| S5-201532 | Rel-16 Work Item Exception for QOED | Ericsson | agreed | - | - |
| S5-201533 | Rel-15 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | agreed | S5-201186 | - |
| S5-201534 | Rel-16 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | agreed | S5-201187 | - |
| S5-201535 | Add anonymization of MDT data for 5G | Oy LM Ericsson AB | agreed | S5-201374 | - |
| S5-201536 | Add MDT user consent handling for 5G | Oy LM Ericsson AB | agreed | S5-201410 | - |
| S5-201537 | Rel-15 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | agreed | S5-201188 | - |
| S5-201538 | Rel-16 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | agreed | S5-201189 | - |
| S5-201539 | YANG\_Netconf Operations | Ericsson, Orange, Telecom Italia, China Mobile, Huawei | agreed | S5-201344 | - |
| S5-201540 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | not pursued | S5-201385 | - |
| S5-201541 | Rel-16 CR 28.532 Clarify and add numerous issues in the REST SS of the ProvMnS | Nokia, Nokia Shanghai Bell | agreed | S5-201387 | - |
| S5-201542 | Rel-16 CR 28.532 Correct OpenAPI definition of the ProvMnS | Nokia, Nokia Shanghai Bell | agreed | S5-201392 | - |
| S5-201543 | Rel-16 CR TS 28.541 Update the NR NRM to align with NG-RAN overview architecture | Huawei | agreed | S5-201191 | - |
| S5-201544 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | Huawei,Ericsson | agreed | S5-201334 | - |
| S5-201545 | Rel-16 CR TS 28.541 Update of GNBCUUPFunction NRM | Ericsson LM | agreed | S5-201278 | - |
| S5-201546 | Rel-16 CR TS 28.541 Add Stage 3 NRM Info Model definitions for RRMPolicy and PLMNInfo related CRs | Ericsson, Nokia, Huawei | agreed | S5-201363 | - |
| S5-201547 | Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management | Huawei | agreed | S5-201259 | - |
| S5-201548 | Add configurable FM. | Ericsson Limited | agreed | S5-201121 | - |
| S5-201549 | Add configurable FM - YANG Solution | Ericsson España S.A. | agreed | S5-201365 | - |
| S5-201550 | Rel-16 CR TS 28.541 Update NRM attribute definitions | CATT | agreed | S5-201198 | - |
| S5-201551 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | agreed | S5-201361 | - |
| S5-201552 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | revised | S5-201362 | S5-201600 |
| S5-201553 | Clarify capability of ack alarms and filter constraint | Ericsson Limited | agreed | S5-201127 | - |
| S5-201554 | Rel-16 CR 28.622 Correct HeartbeatControl IOC definition | Nokia, Nokia Shanghai Bell | agreed | S5-201393 | - |
| S5-201555 | Rel-15 CR 28.158 Clarify HTTP Patch methods | Nokia, Nokia Shanghai Bell | agreed | S5-201384 | - |
| S5-201556 | Add missing MDT trace record for LTE measurements | Oy LM Ericsson AB | agreed | S5-201369 | - |
| S5-201557 | Rel-16 CR TS 28.552 Add Random Access Preambles measurements | Ericsson LM | agreed | S5-201176 | - |
| S5-201558 | correct ackState name | Ericsson Limited | agreed | S5-201377 | - |
| S5-201559 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | not pursued | S5-201182 | - |
| S5-201560 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | not pursued | S5-201183 | - |
| S5-201561 | Rel-16 CR TS 28.552 Add measurement Average delay UL on over-the-air interface | Ericsson LM | agreed | S5-201177 | - |
| S5-201562 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | agreed | S5-201179 | - |
| S5-201563 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | agreed | S5-201180 | - |
| S5-201564 | Rel-16 CR 28.552 Add measurements on RTT delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | agreed | S5-201181 | - |
| S5-201565 | Rel-16 CR TS 28.552 Correction of UE throughput measurements | Ericsson LM | agreed | S5-201135 | - |
| S5-201566 | Rel-16 CR TS 28.552 Correction of Packet Drop Rate measurements | Ericsson LM | agreed | S5-201137 | - |
| S5-201567 | Rel-16 CR TS 28.552 Correction of Packet Loss Rate measurements | Ericsson LM | agreed | S5-201138 | - |
| S5-201568 | Rel-16 CR TS 28.552 Add reference to RAN L2 measurement specification | Ericsson LM | agreed | S5-201175 | - |
| S5-201569 | Rel-16 CR TS 28.552 Add new measurements related to DRB Setup via Initial Context Setup | Ericsson LM | agreed | S5-201149 | - |
| S5-201570 | Draft TS 28.201 | Huawei | approved | - | - |
| S5-201571 | Rel-16 CR 32.291 Update OpenAPI version | Huawei | agreed | - | - |
| S5-201572 | CH Agenda and Time Plan | CH SWG Chair | noted | S5-201466 | - |
| S5-201573 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | agreed | S5-201451 | - |
| S5-201574 | Rel-16 CR 32.255 Adding/removal/change of PSA2 and UL CL or BP controlled by I-SMF | Ericsson, Huawei | agreed | S5-201458 | - |
| S5-201575 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | agreed | S5-201463 | - |
| S5-201576 | Rel-16 Work Item Exception for CHF-Controlled Quota Management | Amdocs Software Systems Ltd | agreed | S5-201435 | - |
| S5-201577 | Rel-16 CR TS 28.552 Correct measurements related to QoS flows | Ericsson LM | agreed | S5-201150 | - |
| S5-201578 | R16 CR TS28.552 Add measurements for SSB beam handover | China Telecommunications, ZTE | agreed | S5-201325 | - |
| S5-201579 | R16 CR TS28.552 Add RSRP measurements | ZTE, China Mobile | agreed | S5-201335 | - |
| S5-201580 | Rel-16 CR TS 28.552 Add Number of Active UEs measurements | Ericsson LM | agreed | S5-201178 | - |
| S5-201581 | Rel-16 CR TS 28.622 Add configurable KPI control NRM | ZTE, China Telecom | agreed | S5-201200 | - |
| S5-201582 | Rel-16 CR TS 28.623 Add configurable KPI control NRM | ZTE, China Telecom | agreed | S5-201203 | - |
| S5-201583 | pCR 28.313 changes to MRO | Intel Corporation (UK) Ltd | approved | S5-201147 | - |
| S5-201584 | pCR 28.313 changes to RACH optimization | Intel Corporation (UK) Ltd | approved | S5-201148 | - |
| S5-201585 | pCR 28.313 Update usecase and procedures for establishment of a new RAN NE in network | Huawei,China Telecom | approved | S5-201322 | - |
| S5-201586 | Correct CR implementation errors | Ericsson France S.A.S | agreed | S5-201371 | - |
| S5-201587 | Add MDT trace record for NR measurements | Oy LM Ericsson AB | agreed | S5-201370 | - |
| S5-201588 | Add MDT specific configuration parameters for 5G | Oy LM Ericsson AB | agreed | S5-201409 | - |
| S5-201589 | Add MDT signalling activation and deactionvation mechanisms for 5G | Oy LM Ericsson AB | agreed | S5-201375 | - |
| S5-201590 | Add MDT management activation and deactionvation mechanism for 5G | Oy LM Ericsson AB | agreed | S5-201407 | - |
| S5-201591 | Add MDT requirements for NR | Oy LM Ericsson AB | agreed | S5-201353 | - |
| S5-201592 | Add MDT trace recording session start and stop mechanism for 5G | Oy LM Ericsson AB | agreed | S5-201412 | - |
| S5-201593 | pCR 28.807 Add introduction | Huawei | approved | S5-201263 | - |
| S5-201594 | pCR 28.807 pCR 28.807 Solutions and conclusion for mgmt of SNPN | Huawei, Telefonica | approved | S5-201264 | - |
| S5-201595 | pCR 28.807 Solutions and conclusion for mgmt of PNI-NPN | Huawei, China Mobile | approved | S5-201265 | - |
| S5-201596 | pCR 28.807 Network Slice as a Service in the management of PNI-NPN | TELEFONICA S.A. | approved | S5-201256 | - |
| S5-201597 | New SID on edge computing management | Samsung R&D Institute UK,Intel | agreed | S5-201152 | - |
| S5-201598 | Reply to: Reply LS to SA5 on Application Architecture for enabling Edge Applications | Samsung | approved | S5-201173 | - |
| S5-201599 | New WID on Enhanced Closed loop SLS assurance | Ericsson LM,Deutsche telekom | agreed | S5-201352 | - |
| S5-201600 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | agreed | S5-201552 | - |
| S5-201601 | Email approval status | WG Chair | available | - | - |
| S5-201602 | (reserved) | OAM revisions | withdrawn | - | - |
| S5-201603 | (reserved) | OAM revisions | withdrawn | - | - |
| S5-201604 | (reserved) | OAM revisions | withdrawn | - | - |
| S5-201605 | (reserved) | OAM revisions | withdrawn | - | - |
| S5-201606 | (reserved) | OAM revisions | withdrawn | - | - |
| S5-201607 | Rel-16 Work Item Exception for MEMTANE | Huawei | agreed | S5-201531 | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| C3-195000 | 01/01/2020 10:26:05 | approved |
| C3-195000 | 01/01/2020 10:26:15 | noted |
| C3-195000 | 01/01/2020 10:26:22 | approved |
| C3-195000 | 21/02/2020 14:30:18 | agreed |
| C3-195000 | 21/02/2020 14:30:38 | noted |
| C3-195000 | 22/02/2020 08:50:03 | agreed |
| C3-195000 | 22/02/2020 08:50:06 | noted |
| C3-195000 | 22/02/2020 08:54:01 | postponed |
| C3-195000 | 22/02/2020 08:54:09 | noted |
| C3-195183 | 01/01/2020 10:32:41 | postponed |
| C3-195183 | 01/01/2020 13:52:18 | noted |
| C3-195183 | 01/01/2020 13:52:25 | approved |
| C3-195183 | 01/01/2020 13:52:27 | noted |
| C3-195183 | 01/01/2020 13:52:31 | agreed |
| C3-195183 | 01/01/2020 13:52:36 | postponed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-201398 | Removing Signalling Based Activation | Ericsson | 28.404 | 0002 | - | Rel-16 | C | QOED | agreed |
| S5-201129 | Clarify NSI can be RAN resource only | Ericsson Limited | 28.530 | 0017 | - | Rel-16 | F | NETSLICE-PRO\_NS | not pursued |
| S5-201311 | Rel16 CR 28.530 Add tenant concept associated to CSI consumer | Huawei | 28.530 | 0018 | - | Rel-16 | B | MEMTANE | not pursued |
| S5-201346 | Align text in network slice subnet concepts with NRM | Ericsson LM,,Deutsche telekom | 28.530 | 0019 | - | Rel-15 | F | NETSLICE-PRO\_NS | not pursued |
| S5-201347 | Align text in network slice subnet concepts with NRM | Ericsson LM,Deutsche telekom | 28.530 | 0020 | - | Rel-16 | A | NETSLICE-PRO\_NS | not pursued |
| S5-201107 | Rel-16 CR TS 28.531 Replace occurences of Management Function by Management Service | Orange | 28.531 | 0039 | - | Rel-16 | F | TEI16 | agreed |
| S5-201111 | Rel-16 CR 28.531 Network Slice Identification Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | 28.531 | 0040 | - | Rel-16 | F | NETSLICE-PRO\_NS | not pursued |
| S5-201112 | Rel-15 CR 28.531 Network Slice Identifiction Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | 28.531 | 0041 | - | Rel-15 | F | NETSLICE-PRO\_NS | not pursued |
| S5-201309 | Rel16 CR 28.531 Update references related to NFV | Huawei | 28.531 | 0042 | - | Rel-16 | F | TEI16 | not pursued |
| S5-201120 | Add missing definition for matching-criteria-attributes | Ericsson Limited | 28.532 | 0089 | - | Rel-16 | A | NETSLICE-PRO\_NS | agreed |
| S5-201125 | Correct placement of notifyEvent definition stage 2 | Ericsson Limited | 28.532 | 0090 | - | Rel-16 | F | NETSLICE-PRO\_NS | not pursued |
| S5-201126 | Add stage 3 notifyEvent stage 3 | Ericsson Limited | 28.532 | 0091 | - | Rel-16 | F | NETSLICE-5GNRM | not pursued |
| S5-201127 | Clarify capability of ack alarms and filter constraint | Ericsson Limited | 28.532 | 0092 | - | Rel-16 | F | NETSLICE-PRO\_NS | revised |
| S5-201553 | Clarify capability of ack alarms and filter constraint | Ericsson Limited | 28.532 | 0092 | 1 | Rel-16 | F | TEI16,NETSLICE-PRO\_NS | agreed |
| S5-201128 | Add notifyAlarmRecord | Ericsson Limited | 28.532 | 0093 | - | Rel-16 | F | NETSLICE-PRO\_NS | not pursued |
| S5-201277 | Rel-16 CR TS 28.532 Correction of MnS Stage 3 SSs for integration with ONAP VES | AT&T, Ericsson, Nokia, Orange,Huawei | 28.532 | 0094 | - | Rel-16 | F | ONAP3GPP | revised |
| S5-201487 | Rel-16 CR TS 28.532 Correction of MnS Stage 3 SSs for integration with ONAP VES | AT&T, Ericsson, Nokia, Orange,Huawei | 28.532 | 0094 | 1 | Rel-16 | F | ONAP3GPP | agreed |
| S5-201310 | Rel16 CR 28.532 Update references related to NFV | Huawei | 28.532 | 0095 | - | Rel-16 | F | TEI16 | not pursued |
| S5-201318 | Rel-16 CR TS 28.532 Rapporteur clean up | Huawei | 28.532 | 0096 | - | Rel-16 | F | TEI16 | agreed |
| S5-201319 | Rel-16 CR TS 28.532 Update the description for generic provisioning MnS | Huawei | 28.532 | 0097 | - | Rel-16 | F | TEI16 | not pursued |
| S5-201344 | YANG\_Netconf Operations | Ericsson España S.A. | 28.532 | 0098 | - | Rel-16 | B | eNRM | revised |
| S5-201539 | YANG\_Netconf Operations | Ericsson, Orange, Telecom Italia, China Mobile, Huawei | 28.532 | 0098 | 1 | Rel-16 | B | eNRM | agreed |
| S5-201377 | correct ackState name | Ericsson Limited | 28.532 | 0099 | - | Rel-15 | F | NETSLICE-PRO\_NS | revised |
| S5-201558 | correct ackState name | Ericsson Limited | 28.532 | 0099 | 1 | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-201385 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0100 | - | Rel-16 | F | REST\_SS | revised |
| S5-201540 | Rel-16 CR 28.532 Add summary CM notification to the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0100 | 1 | Rel-16 | F | REST\_SS | not pursued |
| S5-201387 | Rel-16 CR 28.532 Clarify and add numerous issues in the REST SS of the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0101 | - | Rel-16 | F | REST\_SS | revised |
| S5-201541 | Rel-16 CR 28.532 Clarify and add numerous issues in the REST SS of the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0101 | 1 | Rel-16 | F | TEI16,REST\_SS | agreed |
| S5-201390 | Rel-16 CR 28.532 Remove subscribe and unsubscribe operation from ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0102 | - | Rel-16 | F | TEI16,REST\_SS | not pursued |
| S5-201392 | Rel-16 CR 28.532 Correct OpenAPI definition of the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0103 | - | Rel-16 | F | REST\_SS | revised |
| S5-201542 | Rel-16 CR 28.532 Correct OpenAPI definition of the ProvMnS | Nokia, Nokia Shanghai Bell | 28.532 | 0103 | 1 | Rel-16 | F | TEI16,REST\_SS | agreed |
| S5-201403 | Correct ackState attribute name | Ericsson Limited | 28.532 | 0104 | - | Rel-16 | A | NETSLICE-PRO\_NS | agreed |
| S5-201406 | Correct Heartbeat | Nokia, Nokia Shanghai Bell | 28.532 | 0105 | - | Rel-16 | F | eNRM | agreed |
| S5-201425 | Add missing definition for matching-criteria-attributes | Ericsson Limited | 28.532 | 0106 | - | Rel-15 | F | NETSLICE-PRO\_NS | agreed |
| S5-201188 | Rel-15 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | 28.533 | 0055 | - | Rel-15 | F | NETSLICE | revised |
| S5-201537 | Rel-15 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | 28.533 | 0055 | 1 | Rel-15 | F | NETSLICE | agreed |
| S5-201189 | Rel-16 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | 28.533 | 0056 | - | Rel-16 | A | NETSLICE | revised |
| S5-201538 | Rel-16 CR 28.533 Add the missing paradigm of interaction between MnS producer and MnS consumer | Intel Corporation (UK) Ltd | 28.533 | 0056 | 1 | Rel-16 | A | NETSLICE | agreed |
| S5-201194 | Rel-16 CR TS 28.533 Update Clause 5.3 Management service deployment based on ZSM framework | Huawei | 28.533 | 0057 | - | Rel-16 | F | COSLA | revised |
| S5-201489 | Rel-16 CR TS 28.533 Update Clause 5.3 Management service deployment based on ZSM framework | Huawei, Ericsson, Deutsche Telekom | 28.533 | 0057 | 1 | Rel-16 | F | COSLA | agreed |
| S5-201308 | Rel16 CR 28.533 Update references related to NFV | Huawei | 28.533 | 0058 | - | Rel-16 | F | TEI16 | not pursued |
| S5-201312 | Rel16 CR 28.533 Add clarifications to concept description | Huawei | 28.533 | 0059 | - | Rel-16 | B | MEMTANE | not pursued |
| S5-201314 | CR TS 28.533 Add the cooperation with CN and RAN | Huawei Device Co., Ltd | 28.533 | 0060 | - | Rel-16 | B | COSLA | not pursued |
| S5-201321 | Rel-16 CR TS 28.533 Add the description of methodology for integration of ONAP VES Collector and 3GPP MnS | Huawei | 28.533 | 0061 | - | Rel-16 | B | ONAP3GPP | not pursued |
| S5-201355 | Add clauses to describe closed control loop interactions | Ericsson LM | 28.533 | 0062 | - | Rel-16 | C | COSLA | not pursued |
| S5-201361 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0063 | - | Rel-15 | F | NETSLICE | revised |
| S5-201551 | Rel-15 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0063 | 1 | Rel-15 | F | NETSLICE | agreed |
| S5-201362 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0064 | - | Rel-16 | A | NETSLICE | revised |
| S5-201552 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0064 | 1 | Rel-16 | A | NETSLICE | revised |
| S5-201600 | Rel-16 CR TS 28.533 Update of Management service description and diagram | Huawei | 28.533 | 0064 | 2 | Rel-16 | A | NETSLICE | agreed |
| S5-201419 | Rel-16 CR 28.533 Correct definition of MnS and introduce term Service Based Management Architecture and its abbreviation SBMA | Nokia, Nokia Shanghai Bell | 28.533 | 0065 | - | Rel-16 | F | NETSLICE | merged |
| S5-201498 | Rel-16 CR 28.533 Correct definition of MnS and introduce term Service Based Management Architecture and its abbreviation SBMA | Nokia, Nokia Shanghai Bell | 28.533 | 0065 | 1 | Rel-16 | F | NETSLICE | withdrawn |
| S5-201130 | Rel-16 CR TS 28.540 Correction of requirement number | Ericsson LM | 28.540 | 0009 | - | Rel-16 | F | eNRM | agreed |
| S5-201334 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | Huawei,Ericsson | 28.541 | 0163 | 3 | Rel-16 | F | eNRM | revised |
| S5-201544 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList | Huawei,Ericsson | 28.541 | 0163 | 4 | Rel-16 | F | eNRM | agreed |
| S5-201317 | Rel-16 CR 28.541 Update of RRM Policy | Ericsson, Huawei, Nokia | 28.541 | 0179 | 3 | Rel-16 | C | eNRM | agreed |
| S5-201103 | Rel-16 CR TS 28.541 Include PNF in network slice NRM fragment diagram | Orange | 28.541 | 0230 | - | Rel-16 | F | eNRM | not pursued |
| S5-201113 | Rel 16 CR 28.541 NRM adding missing managedNFProfile Stage 2 and Stage 3 | Samsung R&D Institute UK | 28.541 | 0231 | - | Rel-16 | F | eNRM | not pursued |
| S5-201114 | Rel-16 CR 28.541 nSIIdList NRM Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | 28.541 | 0232 | - | Rel-16 | F | eNRM | not pursued |
| S5-201115 | Rel-15 CR 28.541 nSIIdList NRM Fix Stage 2 and Stage 3 | Samsung R&D Institute UK | 28.541 | 0233 | - | Rel-15 | F | eNRM | not pursued |
| S5-201132 | Rel-16 CR TS 28.541 Correction of reference | Ericsson LM | 28.541 | 0235 | - | Rel-16 | F | eNRM | agreed |
| S5-201142 | Rel-16 CR TS 25.552 Add IOCs to support SON functions | Intel Corporation (UK) Ltd | 28.541 | 0236 | - | Rel-16 | B | SON\_5G | withdrawn |
| S5-201161 | Rel-16 CR TS 28.541 Add NRM fragment for energy saving management | Orange, Huawei | 28.541 | 0237 | - | Rel-16 | B | EE\_5G | not pursued |
| S5-201190 | Rel-16 CR TS 28.541 Correct the parameter sNSSAIList in ServiceProfile and SliceProfile | Huawei | 28.541 | 0238 | - | Rel-16 | F | eNRM | not pursued |
| S5-201191 | Rel-16 CR TS 28.541 Update the NR NRM to align with NG-RAN overview architecture | Huawei | 28.541 | 0239 | - | Rel-16 | F | eNRM | revised |
| S5-201543 | Rel-16 CR TS 28.541 Update the NR NRM to align with NG-RAN overview architecture | Huawei | 28.541 | 0239 | 1 | Rel-16 | F | eNRM | agreed |
| S5-201192 | Rel-16 CR TS 28.541 Correct the xml solution set for NR | Huawei | 28.541 | 0240 | - | Rel-16 | F | eNRM | withdrawn |
| S5-201193 | Rel-16 CR TS 28.541 Some correction the NR NRM | Huawei | 28.541 | 0241 | - | Rel-16 | F | eNRM | agreed |
| S5-201197 | Rel-16 CR TS 28.541 Fix merging errors of the specification | CATT, Nokia, Nokia Shanghai Bell | 28.541 | 0242 | - | Rel-16 | F | eNRM | agreed |
| S5-201198 | Rel-16 CR TS 28.541 Update NRM attribute definitions | CATT | 28.541 | 0243 | - | Rel-16 | F | eNRM | revised |
| S5-201550 | Rel-16 CR TS 28.541 Update NRM attribute definitions | CATT | 28.541 | 0243 | 1 | Rel-16 | F | eNRM | agreed |
| S5-201199 | Rel-16 CR TS 28.541 Add NRPhysicalCellDU and NRCarrier NRM | ZTE Corporation | 28.541 | 0244 | - | Rel-16 | B | eNRM | not pursued |
| S5-201259 | Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management | Huawei | 28.541 | 0245 | - | Rel-16 | B | eNRM | revised |
| S5-201547 | Rel-16 CR TS 28.541 Add the RIM parameters of mapping relations for remote interference management | Huawei | 28.541 | 0245 | 1 | Rel-16 | B | eNRM | agreed |
| S5-201260 | Rel-16 CR TS 28.541 Add the NRM fragement for ANR management | Huawei | 28.541 | 0246 | - | Rel-16 | F | SON\_5G | not pursued |
| S5-201261 | Rel-16 CR TS 28.541 Add the NRM fragement for PCI configuration | Huawei | 28.541 | 0247 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-201262 | Rel-16 CR TS 28.541 Update on slice NRM and solution sets | Huawei, China Mobile | 28.541 | 0248 | - | Rel-16 | F | MA5SLA | agreed |
| S5-201273 | CR TS 28.541 Update attribute properties of resourceSharingLevel | China Mobile E-Commerce Co. | 28.541 | 0249 | - | Rel-16 | B | MA5SLA | not pursued |
| S5-201278 | Rel-16 CR TS 28.541 Update of GNBCUUPFunction NRM | Ericsson LM | 28.541 | 0250 | - | Rel-16 | F | eNRM | revised |
| S5-201545 | Rel-16 CR TS 28.541 Update of GNBCUUPFunction NRM | Ericsson LM | 28.541 | 0250 | 1 | Rel-16 | F | eNRM | agreed |
| S5-201307 | Rel16 CR 28.541 Update references related to NFV | Huawei | 28.541 | 0251 | - | Rel-16 | F | TEI16 | not pursued |
| S5-201320 | Rel-16 CR TS 28.541 Clause 4.3.36 Update on RRMPolicyRatio | Huawei | 28.541 | 0252 | - | Rel-16 | F | eNRM | not pursued |
| S5-201363 | Rel-16 CR TS 28.541 Add Stage 3 NRM Info Model definitions for RRMPolicy and PLMNInfo related CRs | Ericsson LM | 28.541 | 0253 | - | Rel-16 | B | eNRM | revised |
| S5-201546 | Rel-16 CR TS 28.541 Add Stage 3 NRM Info Model definitions for RRMPolicy and PLMNInfo related CRs | Ericsson, Nokia, Huawei | 28.541 | 0253 | 1 | Rel-16 | B | eNRM | agreed |
| S5-201371 | Correct CR implementation errors | Ericsson France S.A.S | 28.541 | 0254 | - | Rel-16 | F | SON\_5G | revised |
| S5-201586 | Correct CR implementation errors | Ericsson France S.A.S | 28.541 | 0254 | 1 | Rel-16 | F | SON\_5G | agreed |
| S5-201399 | Rel-16 CR 28.541 Add OpenAPI definitions required by the ProvMnS | Nokia, Nokia Shanghai Bell | 28.541 | 0255 | - | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-201414 | Rel-16 CR TS 25.541 Add the stage 3 solution for SOM attributes | Intel Corporation (UK) Ltd | 28.541 | 0256 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-201416 | Rel-16 CR TS 25.541 Add IOCs to support SON functions | Intel Corporation (UK) Ltd | 28.541 | 0257 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-201468 | Correct errors in yang solution set | Oy LM Ericsson AB | 28.541 | 0258 | - | Rel-16 | F | eNRM | agreed |
| S5-201184 | Rel-15 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | 28.550 | 0043 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-201528 | Rel-15 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | 28.550 | 0043 | 1 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-201185 | Rel-16 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | 28.550 | 0044 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-201529 | Rel-16 CR 28.550 Update the performance data streaming procedure | Intel Corporation (UK) Ltd | 28.550 | 0044 | 1 | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-201186 | Rel-15 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | 28.550 | 0045 | - | Rel-15 | F | NETSLICE-ADPM5G | revised |
| S5-201533 | Rel-15 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | 28.550 | 0045 | 1 | Rel-15 | F | NETSLICE-ADPM5G | agreed |
| S5-201187 | Rel-16 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | 28.550 | 0046 | - | Rel-16 | A | NETSLICE-ADPM5G | revised |
| S5-201534 | Rel-16 CR 28.550 Add streaming procedure for measurement collection termination | Intel Corporation (UK) Ltd | 28.550 | 0046 | 1 | Rel-16 | A | NETSLICE-ADPM5G | agreed |
| S5-201268 | Add DL user plane packet delay measurement from PSA UPF to UE | ETRI | 28.550 | 0047 | - | Rel-16 | B | 5G\_SLICE\_ePA | merged |
| S5-201272 | Add UL user plane packet delay measurement from UE to PSA UPF | ETRI | 28.550 | 0048 | - | Rel-16 | B | 5G\_SLICE\_ePA | merged |
| S5-201133 | Rel-16 CR TS 28.552 Correction of PDCP Data Volume measurement name | Ericsson LM | 28.552 | 0173 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201134 | Rel-16 CR TS 28.552 Correction of text color | Ericsson LM | 28.552 | 0174 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201135 | Rel-16 CR TS 28.552 Correction of UE throughput measurements | Ericsson LM | 28.552 | 0175 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-201565 | Rel-16 CR TS 28.552 Correction of UE throughput measurements | Ericsson LM | 28.552 | 0175 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201137 | Rel-16 CR TS 28.552 Correction of Packet Drop Rate measurements | Ericsson LM | 28.552 | 0176 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-201566 | Rel-16 CR TS 28.552 Correction of Packet Drop Rate measurements | Ericsson LM | 28.552 | 0176 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201138 | Rel-16 CR TS 28.552 Correction of Packet Loss Rate measurements | Ericsson LM | 28.552 | 0177 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-201567 | Rel-16 CR TS 28.552 Correction of Packet Loss Rate measurements | Ericsson LM | 28.552 | 0177 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201139 | Rel-16 CR TS 25.552 Add the measurement of PCI of candidate cells | Intel Corporation (UK) Ltd | 28.552 | 0178 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-201140 | Rel-16 CR TS 25.552 Add measurements related to RACH optimization | Intel Corporation (UK) Ltd | 28.552 | 0179 | - | Rel-16 | B | SON\_5G | merged |
| S5-201141 | Rel-16 CR TS 25.552 Add handover measurements related to MRO | Intel Corporation (UK) Ltd | 28.552 | 0180 | - | Rel-16 | B | SON\_5G | not pursued |
| S5-201149 | Rel-16 CR TS 28.552 Add new measurements related to DRB Setup via Initial Context Setup | Ericsson LM | 28.552 | 0181 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201569 | Rel-16 CR TS 28.552 Add new measurements related to DRB Setup via Initial Context Setup | Ericsson LM | 28.552 | 0181 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201150 | Rel-16 CR TS 28.552 Correct measurements related to QoS flows | Ericsson LM | 28.552 | 0182 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-201577 | Rel-16 CR TS 28.552 Correct measurements related to QoS flows | Ericsson LM | 28.552 | 0182 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201151 | Rel-16 CR TS 28.552 Correct PDU Data Volume measurements | Ericsson LM | 28.552 | 0183 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-201175 | Rel-16 CR TS 28.552 Add reference to RAN L2 measurement specification | Ericsson LM | 28.552 | 0184 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201568 | Rel-16 CR TS 28.552 Add reference to RAN L2 measurement specification | Ericsson LM | 28.552 | 0184 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201176 | Rel-16 CR TS 28.552 Add Random Access Preambles measurements | Ericsson LM | 28.552 | 0185 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201557 | Rel-16 CR TS 28.552 Add Random Access Preambles measurements | Ericsson LM | 28.552 | 0185 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201177 | Rel-16 CR TS 28.552 Add measurement Average delay UL on over-the-air interface | Ericsson LM | 28.552 | 0186 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201561 | Rel-16 CR TS 28.552 Add measurement Average delay UL on over-the-air interface | Ericsson LM | 28.552 | 0186 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201178 | Rel-16 CR TS 28.552 Add Number of Active UEs measurements | Ericsson LM | 28.552 | 0187 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201580 | Rel-16 CR TS 28.552 Add Number of Active UEs measurements | Ericsson LM | 28.552 | 0187 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201179 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | 28.552 | 0188 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201562 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | 28.552 | 0188 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201180 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | 28.552 | 0189 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201563 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | 28.552 | 0189 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201181 | Rel-16 CR 28.552 Add measurements on RTT delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | 28.552 | 0190 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201564 | Rel-16 CR 28.552 Add measurements on RTT delay between PSA UPF and NG-RAN | Intel Corporation (UK) Ltd | 28.552 | 0190 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201182 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | 28.552 | 0191 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201559 | Rel-16 CR 28.552 Add measurements on DL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | 28.552 | 0191 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-201183 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | 28.552 | 0192 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201560 | Rel-16 CR 28.552 Add measurements on UL delay between PSA UPF and UE | Intel Corporation (UK) Ltd | 28.552 | 0192 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-201313 | Rel-16 CR TS 28.552 Update the latency related measurements | HUAWEI TECHNOLOGIES Co. Ltd. | 28.552 | 0193 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-201325 | R16 CR TS28.552 Add measurements for SSB beam handover | China Telecommunications, ZTE | 28.552 | 0194 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201578 | R16 CR TS28.552 Add measurements for SSB beam handover | China Telecommunications, ZTE | 28.552 | 0194 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201332 | R16 CR TS28.552 Modify Packet Delay measurements | ZTE Corporation | 28.552 | 0195 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-201333 | R16 CR TS28.552 Modify PRB usage measurements | ZTE, China Telecom | 28.552 | 0196 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-201335 | R16 CR TS28.552 Add RSRP measurements | ZTE, China Mobile | 28.552 | 0197 | - | Rel-16 | B | 5G\_SLICE\_ePA | revised |
| S5-201579 | R16 CR TS28.552 Add RSRP measurements | ZTE, China Mobile | 28.552 | 0197 | 1 | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201336 | R16 CR TS 28.552 Add TA related measurements | ZTE, China Mobile | 28.552 | 0198 | - | Rel-16 | B | 5G\_SLICE\_ePA | withdrawn |
| S5-201337 | R16 CR TS 28.552 Add TA related measurements | ZTE, China Mobile | 28.552 | 0199 | - | Rel-16 | B | 5G\_SLICE\_ePA | not pursued |
| S5-201378 | Add new Use cases into A.28 according to agreed CRs | Nokia, Nokia Shanghai Bell | 28.552 | 0200 | - | Rel-16 | B | 5G\_SLICE\_ePA | agreed |
| S5-201119 | Rel-16 CR TS 28.554 Update KPI definitions to align with the new template | China Telecommunications, ZTE, Huawei | 28.554 | 0038 | - | Rel-16 | F | 5G\_SLICE\_ePA-KPI | revised |
| S5-201522 | Rel-16 CR TS 28.554 Update KPI definitions to align with the new template | China Telecommunications, ZTE, Huawei | 28.554 | 0038 | 1 | Rel-16 | F | 5G\_SLICE\_ePA-KPI | agreed |
| S5-201136 | Rel-16 CR TS 28.554 Correction of equation color | Ericsson LM | 28.554 | 0039 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-201121 | Add configurable FM. | Ericsson Limited | 28.622 | 0066 | - | Rel-16 | B | eNRM | revised |
| S5-201548 | Add configurable FM. | Ericsson Limited | 28.622 | 0066 | 1 | Rel-16 | B | eNRM | agreed |
| S5-201122 | Implement ME (instead of MF) relation to VNF | Ericsson Limited | 28.622 | 0067 | - | Rel-16 | F | NETSLICE-5GNRM | not pursued |
| S5-201124 | Add missing definition for matching-criteria-attributes | Ericsson Limited | 28.622 | 0068 | - | Rel-15 | F | NETSLICE-PRO\_NS | withdrawn |
| S5-201200 | Rel-16 CR TS 28.622 Add configurable KPI control NRM | ZTE, China Telecom | 28.622 | 0069 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | revised |
| S5-201581 | Rel-16 CR TS 28.622 Add configurable KPI control NRM | ZTE, China Telecom | 28.622 | 0069 | 1 | Rel-16 | B | 5G\_SLICE\_ePA-KPI | agreed |
| S5-201306 | Rel16 CR 28.622 Update references related to NFV | Huawei | 28.622 | 0070 | - | Rel-16 | F | TEI16 | not pursued |
| S5-201393 | Rel-16 CR 28.622 Correct HeartbeatControl IOC definition | Nokia, Nokia Shanghai Bell | 28.622 | 0071 | - | Rel-16 | F | REST\_SS | revised |
| S5-201554 | Rel-16 CR 28.622 Correct HeartbeatControl IOC definition | Nokia, Nokia Shanghai Bell | 28.622 | 0071 | 1 | Rel-16 | F | eNRM | agreed |
| S5-201395 | Rel-16 CR 28.622 Add missing supported notifications of MeasurementReader, MeasurementControl and ThresholdMonitor | Nokia, Nokia Shanghai Bell | 28.622 | 0072 | - | Rel-16 | F | eNRM | not pursued |
| S5-201203 | Rel-16 CR TS 28.623 Add configurable KPI control NRM | ZTE, China Telecom | 28.623 | 0041 | - | Rel-16 | B | 5G\_SLICE\_ePA-KPI | revised |
| S5-201582 | Rel-16 CR TS 28.623 Add configurable KPI control NRM | ZTE, China Telecom | 28.623 | 0041 | 1 | Rel-16 | B | 5G\_SLICE\_ePA-KPI | agreed |
| S5-201365 | Add configurable FM - YANG Solution | Ericsson España S.A. | 28.623 | 0042 | - | Rel-16 | B | eNRM | revised |
| S5-201549 | Add configurable FM - YANG Solution | Ericsson España S.A. | 28.623 | 0042 | 1 | Rel-16 | B | eNRM | agreed |
| S5-201397 | Rel-16 CR 28.623 Add OpenAPI definitions required by the ProvMnS | Nokia, Nokia Shanghai Bell | 28.623 | 0043 | - | Rel-16 | F | TEI16,REST\_SS | agreed |
| S5-201408 | ME (instead of MF) relation to VNF in YANG | Ericsson España S.A. | 28.623 | 0044 | - | Rel-16 | F | NETSLICE-5GNRM | not pursued |
| S5-201469 | Correct errors in yang solution set | Oy LM Ericsson AB | 28.623 | 0045 | - | Rel-16 | F | eNRM | agreed |
| S5-201348 | Correct reference to NOTE in attribute properties table in clause 5.2.1.1 | Ericsson LM | 32.156 | 0037 | - | Rel-16 | F | METHOGY | agreed |
| S5-201384 | Rel-15 CR 28.158 Clarify HTTP Patch methods | Nokia, Nokia Shanghai Bell | 32.158 | 0011 | - | Rel-15 | F | REST\_SS | revised |
| S5-201555 | Rel-15 CR 28.158 Clarify HTTP Patch methods | Nokia, Nokia Shanghai Bell | 32.158 | 0011 | 1 | Rel-15 | F | REST\_SS | agreed |
| S5-201343 | YANG Guidelines Update | Ericsson España S.A. | 32.160 | 0005 | - | Rel-16 | B | eNRM | agreed |
| S5-201350 | Remove incorrect example from constraints table | Ericsson LM | 32.160 | 0006 | - | Rel-16 | F | METHOGY | agreed |
| S5-201351 | Resolution of Editors Note in clause W4.3 Class definitions | Ericsson LM | 32.160 | 0007 | - | Rel-16 | F | METHOGY | agreed |
| S5-201340 | Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF | Ericsson | 32.255 | 0140 | 1 | Rel-16 | B | ETSUN | revised |
| S5-201453 | Rel-16 CR 32.255 5GS to EPS handover using N26 interface with I-SMF | Ericsson | 32.255 | 0140 | 2 | Rel-16 | B | ETSUN | agreed |
| S5-201341 | Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF | Ericsson | 32.255 | 0141 | 1 | Rel-16 | B | ETSUN | revised |
| S5-201455 | Rel-16 CR 32.255 EPS to 5GS handover using N26 interface with I-SMF | Ericsson | 32.255 | 0141 | 2 | Rel-16 | B | ETSUN | agreed |
| S5-201106 | Rel-16 CR 32.255 Introduction of V-SMF change in Roaming HR - principles | Nokia, Nokia Shanghai Bell | 32.255 | 0167 | - | Rel-16 | B | ETSUN | revised |
| S5-201459 | Rel-16 CR 32.255 Introduction of V-SMF change in Roaming HR - principles | Nokia, Nokia Shanghai Bell | 32.255 | 0167 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-201155 | Rel-16 CR 32.255 Introduction of ATSSS architecture reference and charging requirements | Nokia, Nokia Shanghai Bell | 32.255 | 0168 | - | Rel-16 | B | ATSSS | revised |
| S5-201461 | Rel-16 CR 32.255 Introduction of ATSSS architecture reference and charging requirements | Nokia, Nokia Shanghai Bell | 32.255 | 0168 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-201156 | Rel-16 CR 32.255 Introduction of MA PDU session and PCC Rules | Nokia, Nokia Shanghai Bell | 32.255 | 0169 | - | Rel-16 | B | ATSSS | revised |
| S5-201462 | Rel-16 CR 32.255 Introduction of MA PDU session and PCC Rules | Nokia, Nokia Shanghai Bell | 32.255 | 0169 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-201157 | Rel-16 CR 32.255 Introduction of ATSSS flows | Nokia, Nokia Shanghai Bell | 32.255 | 0170 | - | Rel-16 | B | ATSSS | revised |
| S5-201464 | Rel-16 CR 32.255 Introduction of ATSSS flows | Nokia, Nokia Shanghai Bell | 32.255 | 0170 | 1 | Rel-16 | B | ATSSS | agreed |
| S5-201158 | Rel-16 CR 32.255 Introduction of MA PDU session indicator | Nokia, Nokia Shanghai Bell | 32.255 | 0171 | - | Rel-16 | B | ATSSS | not pursued |
| S5-201160 | Rel-16 CR 32.255 Introduction of V-SMF Change in Roaming HR - flows | Nokia, Nokia Shanghai Bell | 32.255 | 0172 | - | Rel-16 | B | ETSUN | revised |
| S5-201460 | Rel-16 CR 32.255 Introduction of V-SMF Change in Roaming HR - flows | Nokia, Nokia Shanghai Bell | 32.255 | 0172 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-201225 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | 32.255 | 0182 | - | Rel-16 | B | ETSUN | revised |
| S5-201451 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | 32.255 | 0182 | 1 | Rel-16 | B | ETSUN | revised |
| S5-201573 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | 32.255 | 0182 | 2 | Rel-16 | B | ETSUN | agreed |
| S5-201226 | Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion. | Huawei | 32.255 | 0183 | - | Rel-16 | B | ETSUN | revised |
| S5-201433 | Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion | Huawei Tech.(UK) Co., Ltd | 32.255 | 0183 | 1 | Rel-16 | B | ETSUN | not pursued |
| S5-201227 | Rel-16 CR 32.255 Correct PDU session establishment procedure with I-SMF insertion | Huawei | 32.255 | 0184 | - | Rel-16 | B | ETSUN | revised |
| S5-201434 | Correct PDU session establishment procedure with I-SMF insertion | Huawei Tech.(UK) Co., Ltd | 32.255 | 0184 | 1 | Rel-16 | B | ETSUN | not pursued |
| S5-201228 | Rel-16 CR 32.255 Add 5WWC charging requirements | Huawei | 32.255 | 0185 | - | Rel-16 | B | 5WWC | revised |
| S5-201436 | Rel16 CR 32.255 Add 5WWC charging requirements | Huawei Tech.(UK) Co., Ltd | 32.255 | 0185 | 1 | Rel-16 | B | 5WWC | agreed |
| S5-201229 | Rel-16 CR 32.255 Add 5WWC architecture diagram | Huawei | 32.255 | 0186 | - | Rel-16 | B | 5WWC | revised |
| S5-201447 | Rel-16 CR 32.255 Add 5WWC architecture diagram | Huawei Tech.(UK) Co., Ltd | 32.255 | 0186 | 1 | Rel-16 | B | 5WWC | agreed |
| S5-201230 | Rel-16 CR 32.255 Add description on charging information | Huawei | 32.255 | 0187 | - | Rel-16 | B | 5WWC | revised |
| S5-201437 | Rel16 CR 32.255 Add description on charging information | Huawei Tech.(UK) Co., Ltd | 32.255 | 0187 | 1 | Rel-16 | B | 5WWC | not pursued |
| S5-201231 | Rel-16 CR 32.255 Add precedure for 5G RG+scenario | Huawei | 32.255 | 0188 | - | Rel-16 | B | 5WWC | revised |
| S5-201438 | Rel16 CR 32.255 Add precedure for 5G RG scenario | Huawei Tech.(UK) Co., Ltd | 32.255 | 0188 | 1 | Rel-16 | B | 5WWC | agreed |
| S5-201232 | Rel-16 CR 32.255 Add precedure for FN RG scenario | Huawei | 32.255 | 0189 | - | Rel-16 | B | 5WWC | revised |
| S5-201439 | Rel16 CR 32.255 Add procedure for FN RG scenario | Huawei Tech.(UK) Co., Ltd | 32.255 | 0189 | 1 | Rel-16 | B | 5WWC | revised |
| S5-201454 | Rel-16 CR 32.255 Add precedure for FN RG scenario | Huawei Tech.(UK) Co., Ltd | 32.255 | 0189 | 2 | Rel-16 | B | 5WWC | agreed |
| S5-201233 | Rel-16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei | 32.255 | 0190 | - | Rel-16 | B | 5WWC | revised |
| S5-201440 | Rel16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei Tech.(UK) Co., Ltd | 32.255 | 0190 | 1 | Rel-16 | B | 5WWC | revised |
| S5-201456 | Rel16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei Tech.(UK) Co., Ltd | 32.255 | 0190 | 2 | Rel-16 | B | 5WWC | agreed |
| S5-201292 | Rel-16 CR 32.255 Add the branching point or UL CL controlled by I-SMF | Huawei | 32.255 | 0191 | - | Rel-16 | B | ETSUN | withdrawn |
| S5-201293 | Rel-16 CR 32.255 Correct PDU session modification procedure with I-SMF insertion. | Huawei | 32.255 | 0192 | - | Rel-16 | B | ETSUN | withdrawn |
| S5-201294 | Rel-16 CR 32.255 Correct PDU session establishment procedure with I-SMF insertion | Huawei | 32.255 | 0193 | - | Rel-16 | B | ETSUN | withdrawn |
| S5-201295 | Rel-16 CR 32.255 Add 5WWC charging requirements | Huawei | 32.255 | 0194 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201296 | Rel-16 CR 32.255 Add 5WWC architecture diagram | Huawei | 32.255 | 0195 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201297 | Rel-16 CR 32.255 Add description on charging information | Huawei | 32.255 | 0196 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201298 | Rel-16 CR 32.255 Add precedure for 5G RG+scenario | Huawei | 32.255 | 0197 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201299 | Rel-16 CR 32.255 Add precedure for FN RG scenario | Huawei | 32.255 | 0198 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201300 | Rel-16 CR 32.255 Add description on identifier in a PDU session for 5G RG and FN RG | Huawei | 32.255 | 0199 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201328 | Rel-16 CR 32.255 Addition of PSA2 and UL CL or BP controlled by I-SMF | Ericsson | 32.255 | 0200 | - | Rel-16 | B | ETSUN | revised |
| S5-201458 | Rel-16 CR 32.255 Adding/removal/change of PSA2 and UL CL or BP controlled by I-SMF | Ericsson, Huawei | 32.255 | 0200 | 1 | Rel-16 | B | ETSUN | revised |
| S5-201574 | Rel-16 CR 32.255 Adding/removal/change of PSA2 and UL CL or BP controlled by I-SMF | Ericsson, Huawei | 32.255 | 0200 | 2 | Rel-16 | B | ETSUN | agreed |
| S5-201329 | Rel-16 CR 32.255 Change of PSA2 for UL CL or BP controlled by I-SMF | Ericsson | 32.255 | 0201 | - | Rel-16 | B | ETSUN | merged |
| S5-201330 | Rel-16 CR 32.255 Removal of PSA2 and UL CL or BP controlled by I-SMF | Ericsson | 32.255 | 0202 | - | Rel-16 | B | ETSUN | merged |
| S5-201331 | Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion | Ericsson | 32.255 | 0203 | - | Rel-16 | B | ETSUN | revised |
| S5-201452 | Rel-16 CR 32.255 Remove Editor's note of PDU Session establishment with I-SMF insertion | Ericsson | 32.255 | 0203 | 1 | Rel-16 | B | ETSUN | agreed |
| S5-201411 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | 32.255 | 0204 | - | Rel-16 | B | CHFCQM | revised |
| S5-201441 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | 32.255 | 0204 | 1 | Rel-16 | B | CHFCQM | revised |
| S5-201463 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | 32.255 | 0204 | 2 | Rel-16 | B | CHFCQM | revised |
| S5-201575 | Introduce CHF-Controlled Quota Management | Amdocs Software Systems Ltd | 32.255 | 0204 | 3 | Rel-16 | B | CHFCQM | agreed |
| S5-201413 | Add CHF-Controlled Quota Management | Amdocs Software Systems Ltd | 32.255 | 0205 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-201415 | Add quota management attributes | Amdocs Software Systems Ltd | 32.255 | 0206 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-201235 | Rel-16 CR 32.290 Suspend or resume quota management via the charging notify request | Huawei | 32.290 | 0106 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-201238 | Rel-16 CR 32.290 Clarification of quota handling | Ericsson | 32.290 | 0107 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-201252 | Rel-16 CR 32.290 Add unlimited quota in threshold triggers | Ericsson | 32.290 | 0108 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-201302 | Rel-16 CR 32.290 Suspend or resume quota management via the charging notify request | Huawei | 32.290 | 0109 | - | Rel-16 | B | CHFCQM | withdrawn |
| S5-201342 | Rel-16 CR 32.291 Correction to tariffTimeChange with UTC format | Ericsson | 32.291 | 0185 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-201154 | Rel-16 CR 32.291 Update of Serving Network Function ID | Nokia, Nokia Shanghai Bell | 32.291 | 0199 | - | Rel-16 | F | ETSUN | agreed |
| S5-201234 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | 32.291 | 0202 | - | Rel-16 | B | 5WWC | not pursued |
| S5-201236 | Rel-16 CR 32.291 Suspend or resume quota management via the charging notify request | Huawei | 32.291 | 0203 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-201244 | Rel-15 CR 32.291 Correction of non-backward compatible change of usedUnitContainer | Ericsson | 32.291 | 0204 | - | Rel-15 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-201254 | Rel-16 CR 32.291 Add unlimited quota | Ericsson | 32.291 | 0205 | - | Rel-16 | B | CHFCQM | not pursued |
| S5-201301 | Rel-16 CR 32.291 Add description on identifier for 5G RG and FN RG | Huawei | 32.291 | 0206 | - | Rel-16 | B | 5WWC | withdrawn |
| S5-201303 | Rel-16 CR 32.291 Suspend or resume quota management via the charging notify request | Huawei | 32.291 | 0207 | - | Rel-16 | B | CHFCQM | withdrawn |
| S5-201427 | Rel-16 CR 32.291 Correct the style for TriggerType in OpenAPI | Huawei | 32.291 | 0208 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-201571 | Rel-16 CR 32.291 Update OpenAPI version | Huawei | 32.291 | 0209 | - | Rel-16 | B | TEI16 | agreed |
| S5-201104 | Rel-15 CR 32.298 Correction ASN.1 syntax | Nokia, Nokia Shanghai Bell | 32.298 | 0793 | - | Rel-15 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-201105 | Rel-16 CR 32.298 Correction ASN.1 syntax | Nokia, Nokia Shanghai Bell | 32.298 | 0794 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-201465 | Rel-16 CR 32.298 Correction ASN.1 syntax | Nokia, Nokia Shanghai Bell | 32.298 | 0794 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-201239 | Rel-16 CR 32.298 Incomplete indicator missing in CDR | Ericsson | 32.298 | 0795 | - | Rel-16 | F | TEI16, 5GS\_Ph1-DCH | revised |
| S5-201448 | Rel-16 CR 32.298 Incomplete indicator missing in CDR | Ericsson | 32.298 | 0795 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-DCH | agreed |
| S5-201242 | Rel-16 CR 32.298 Missing diagnostics for Nchf | Ericsson | 32.298 | 0796 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | not pursued |
| S5-201243 | Rel-16 CR 32.298 Heading corrections | Ericsson | 32.298 | 0797 | - | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | revised |
| S5-201449 | Rel-16 CR 32.298 Heading corrections | Ericsson | 32.298 | 0797 | 1 | Rel-16 | F | TEI16, 5GS\_Ph1-SBI\_CH | agreed |
| S5-201353 | Add MDT requirements for NR | Oy LM Ericsson AB | 32.421 | 0093 | - | Rel-16 | F | 5GMDT | revised |
| S5-201591 | Add MDT requirements for NR | Oy LM Ericsson AB | 32.421 | 0093 | 1 | Rel-16 | F | 5GMDT | agreed |
| S5-201358 | Alignment with RAN2, Replace area based MDT with management based MDT | Oy LM Ericsson AB | 32.421 | 0094 | - | Rel-16 | F | 5GMDT | withdrawn |
| S5-201366 | Alignment with RAN2, Replace area based MDT with management based MDT | Oy LM Ericsson AB | 32.421 | 0095 | - | Rel-16 | F | 5GMDT | agreed |
| S5-201117 | Rel-15 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | 32.422 | 0310 | - | Rel-15 | F | TEI15 | revised |
| S5-201526 | Rel-15 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | 32.422 | 0310 | 1 | Rel-15 | F | TEI15 | agreed |
| S5-201118 | Rel-16 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | 32.422 | 0311 | - | Rel-16 | A | TEI15 | revised |
| S5-201527 | Rel-16 CR TS 32.422 Updating the measurements list for Immediate MDT | China Telecommunications, Huawei | 32.422 | 0311 | 1 | Rel-16 | A | TEI15 | agreed |
| S5-201364 | Add missing LTE MDT trace record | Oy LM Ericsson AB | 32.422 | 0312 | - | Rel-15 | F | TEI15 | merged |
| S5-201367 | Add missing LTE MDT trace record | Oy LM Ericsson AB | 32.422 | 0313 | - | Rel-16 | A | TEI15 | merged |
| S5-201368 | Alignment with RAN2, Replace area based MDT with management based MDT | Oy LM Ericsson AB | 32.422 | 0314 | - | Rel-16 | F | 5GMDT | agreed |
| S5-201374 | Add anonymization of MDT data for 5G | Oy LM Ericsson AB | 32.422 | 0315 | - | Rel-16 | B | 5GMDT | revised |
| S5-201535 | Add anonymization of MDT data for 5G | Oy LM Ericsson AB | 32.422 | 0315 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201375 | Add MDT signalling activation and deactionvation mechanisms for 5G | Oy LM Ericsson AB | 32.422 | 0316 | - | Rel-16 | B | 5GMDT | revised |
| S5-201589 | Add MDT signalling activation and deactionvation mechanisms for 5G | Oy LM Ericsson AB | 32.422 | 0316 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201407 | Add MDT management activation and deactionvation mechanism for 5G | Oy LM Ericsson AB | 32.422 | 0317 | - | Rel-16 | B | 5GMDT | revised |
| S5-201590 | Add MDT management activation and deactionvation mechanism for 5G | Oy LM Ericsson AB | 32.422 | 0317 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201409 | Add MDT specific configuration parameters for 5G | Oy LM Ericsson AB | 32.422 | 0318 | - | Rel-16 | B | 5GMDT | revised |
| S5-201588 | Add MDT specific configuration parameters for 5G | Oy LM Ericsson AB | 32.422 | 0318 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201410 | Add MDT user consent handling for 5G | Oy LM Ericsson AB | 32.422 | 0319 | - | Rel-16 | B | 5GMDT | revised |
| S5-201536 | Add MDT user consent handling for 5G | Oy LM Ericsson AB | 32.422 | 0319 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201412 | Add MDT trace recording session start and stop mechanism for 5G | Oy LM Ericsson AB | 32.422 | 0320 | - | Rel-16 | B | 5GMDT | revised |
| S5-201592 | Add MDT trace recording session start and stop mechanism for 5G | Oy LM Ericsson AB | 32.422 | 0320 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201369 | Add missing MDT trace record for LTE measurements | Oy LM Ericsson AB | 32.423 | 0099 | - | Rel-15 | F | TEI15 | revised |
| S5-201556 | Add missing MDT trace record for LTE measurements | Oy LM Ericsson AB | 32.423 | 0099 | 1 | Rel-15 | F | TEI15 | agreed |
| S5-201370 | Add MDT trace record for NR measurements | Oy LM Ericsson AB | 32.423 | 0100 | - | Rel-16 | B | 5GMDT | revised |
| S5-201587 | Add MDT trace record for NR measurements | Oy LM Ericsson AB | 32.423 | 0100 | 1 | Rel-16 | B | 5GMDT | agreed |
| S5-201418 | Add streaming format for Trace Record Reporting | Oy LM Ericsson AB | 32.423 | 0101 | - | Rel-16 | B | OAM\_RTT | revised |
| S5-201490 | Add streaming format for Trace Record Reporting | Oy LM Ericsson AB | 32.423 | 0101 | 1 | Rel-16 | B | OAM\_RTT | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-201163 |  | Reply LS to SA5 on QoE Measurement Collection | R2-1916328 | withdrawn | (none) |
| S5-201164 |  | LS to SA5 on EN-DC related MDT configuration details | R2-1916579 | postponed | (none) |
| S5-201165 |  | LS to SA5 on trace related configurations for NR MDT | R2-1916598 | replied to | S5-201424 |
| S5-201166 |  | Resubmitted Reply LS to SA5 on clarification of OAM requirements for RIM | R3-197540 | noted | (none) |
| S5-201167 |  | Reply LS to SA5 on energy efficiency | R3-197745 | postponed | (none) |
| S5-201168 |  | Reply LS to SA5 on analytics support for energy saving | SP-191378 | replied to | S5-201472 |
| S5-201169 |  | LS ccSA5 on analytics support for energy saving | S2-1912770 | replied to | S5-201472 |
| S5-201170 |  | Reply LS to SA5 on supporting simultaneous online and offline reporting level access | S2-1912278 | replied to | (none) |
| S5-201171 |  | Reply LS to SA5 on Application Architecture for enabling Edge Applications | S6-200306 | replied to | S5-201598 |
| S5-201172 |  | LS to SA5 on Reply on QoE Measurement Collection | S4-200241 | postponed | (none) |
| S5-201426 |  | Reply LS to SA5 on QoE Measurement Collection | R2-1916328 | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-201424 | Reply to LS to SA5 on trace related configurations for NR MDT | RAN2 | - | S5-201165 |
| S5-201457 | LS reply on Reply LS on supporting simultaneous online and offline reporting level access | SA2 | CT3 | S5-201170 |
| S5-201472 | Reply LS on analytics support for energy saving | SA | SA2.SA3,SA3-LI,RAN3 | S5-201168,S5-201169 |
| S5-201525 | LS on the status update of the SON support for NR works | RAN2,RAN3 | - |  |
| S5-201598 | Reply to: Reply LS to SA5 on Application Architecture for enabling Edge Applications | SA6 | - | S5-201171 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-201477 | New SID New areas on EE for 5G networks | Orange | SID new |
| S5-201597 | New SID on edge computing management | Samsung R&D Institute UK,Intel | SID new |
| S5-201478 | New WID Enhancements on EE for 5G networks | Orange | WID new |
| S5-201479 | New WI on management of non-public networks | Huawei | WID new |
| S5-201480 | New WID Enhancement on Management Aspects of 5G Service-Level Agreement | China Mobile E-Commerce Co. | WID new |
| S5-201481 | New WID on management of MDT enhancement in 5G | Oy LM Ericsson AB | WID new |
| S5-201482 | New WID on Additional NRM features | Nokia, Nokia Shanghai Bell | WID new |
| S5-201483 | New WID on Enhancement of QoE Measurement Collection | Ericsson | WID new |
| S5-201496 | New WID on Self-Organizing Networks (SON) for 5G networks | Intel Corporation (UK) Ltd | WID new |
| S5-201599 | New WID on Enhanced Closed loop SLS assurance | Ericsson LM,Deutsche telekom | WID new |
| S5-201109 | Revised WID on 5G management capabilities | Orange | WID revised |
| S5-201470 | Revised WID for MA5SLA | China Mobile | WID revised |
| S5-201471 | Revised WID on Intent driven management service for mobile networks | Huawei Device Co., Ltd | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-201108 | 28.537 | 0.1.0 | pCR TS 28.537 First draft with Edithelp comments and text in Scope |
| S5-201499 | 28.812 | 0.10.0 | Draft TR 28.812 |
| S5-201500 | 28.313 | 0.3.0 | Draft TR 28.313 |
| S5-201501 | 28.810 | 0.3.0 | Draft TR 28.810 |
| S5-201503 | 28.807 | 0.4.0 | Draft TR 28.807 |
| S5-201504 | 28.310 | 1.3.0 | Draft TS 28.310 |
| S5-201505 | 28.535 | 1.1.0 | Draft TS 28.535 |
| S5-201506 | 28.307 | 0.3.0 | Draft TS 28.307 |
| S5-201507 | 28.308 | 0.3.0 | Draft TS 28.308 |
| S5-201508 | 28.405 | 1.2.0 | Draft TS 28.405 |
| S5-201509 | 28.406 | 1.2.0 | Draft TS 28.406 |
| S5-201510 | 28.809 | 0.3.0 | draft TR 28.809 |
| S5-201570 | 28.201 | 0.3.0 | Draft TS 28.201 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Mr. | Ali | Irfan | Cisco Systems Belgium | Cisco Systems Belgium |
| Dr. | Al-kanani | Hassan | NEC Europe Ltd | NEC Europe Ltd |
| Mrs. | Ayani | Zhulia | Ericsson LM | Oy LM Ericsson AB |
| Mr. | Braam | Sjors | TNO | KPN N.V. |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Dr. | Cao | Xi | China Mobile Research Inst. | China Mobile Com. Corporation |
| Ms. | Chen | Na | China Telecommunications | China Telecom Corporation Ltd. |
| Miss | CHEN | SHAN | Huawei Tech.(UK) Co., Ltd | HiSilicon Technologies Co. Ltd |
| Miss | Chen | Xiumin | China Telecommunications | China Telecommunications |
| Dr. | Choi | Taesang | ETRI | ETRI |
| Mr. | Chou | Joey | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd |
| Dr. | Cornily | Jean Michel | Orange | Orange Spain |
| Miss | Dong | Jia | China Mobile E-Commerce Co. | China Mobile Com. Corporation |
| Mr. | Drijver | Floris | TNO | TNO |
| Mr. | Elmdahl | Per | Ericsson France S.A.S | Ericsson France S.A.S |
| Mr. | Gao | Xiao-Ming | Ericsson LM | Ericsson LM |
| Mrs. | Gardella | Maryse | Nokia France | Nokia Belgium |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | Samsung R&D Institute UK |
| Mr. | Glozman | Borislav | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd |
| Mr. | Görmer | Gerald | Matrixx | Matrixx |
| Mr. | Groenendijk | Jan | Ericsson LM | Ericsson LM |
| Mr. | Horvat | Attila | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Ms. | Hu | Yaxi | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Jan | Onnegren | Ericsson LM | Ericsson LM |
| Mr. | Jerbi | Walid | Deutsche Telekom AG | Deutsche Telekom AG |
| Miss | JIA | Xiaoqian | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Mr. | Klotz | Michael | Deutsche Telekom AG | Deutsche Telekom AG |
| Dr. | Lagha | Naceur | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd |
| Mr. | Lengyel | Balazs | Ericsson Hungary Ltd | Ericsson España S.A. |
| Mr. | Li | Gang | Nanjing Ericsson Panda Com Ltd | Nanjing Ericsson Panda Com Ltd |
| Mr. | Li | Shitao | Huawei Tech.(UK) Co., Ltd | Huawei Tech.(UK) Co., Ltd |
| Dr. | Lim | Jai-Jin | Samsung Electronics Co., Ltd | Samsung Electronics Co., Ltd |
| Mr. | Mansfield | Scott | Ericsson LM | Ericsson LM |
| Mr. | McNamee | Alan | Openet Telecom | Openet Telecom |
| Ing. | Moggio | Fabrizio | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Ordonez-Lucena | Jose | TELEFONICA S.A. | TELEFONICA S.A. |
| Mr. | Petersen | Robert | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Miss | Ping | Jing | Nokia Germany | Nokia Solutions & Networks (I) |
| Dr. | Pollakowski | Olaf | Nokia Germany | Nokia Corporation |
| Mr. | Potter | Benjamin | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Dr. | Samdanis | Konstantinos | Nokia | Nokia |
| Mrs. | Shi | xiaoli | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Ms. | Shi | Xiaonan | China Mobile Research Inst. | China Mobile E-Commerce Co. |
| Mr. | Shu | Min | CATT | CATT |
| Mr. | Smith | David K. | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Miss | Tambe | Supriya | Indian Institute of Tech (H) | Indian Institute of Tech (H) |
| Mr. | Törnkvist | Robert | Ericsson LM | Nanjing Ericsson Panda Com Ltd |
| Mr. | Tovinger | Thomas | Ericsson LM | Ericsson LM |
| Mr. | Tse | Edwin | Ericsson LM | Ericsson Limited |
| Mr. | Xiang | Li | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | XING | XIAOCHENG | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Mr. | Xu | Ruiyue | Huawei Tech.(UK) Co., Ltd | Huawei Telecommunication India |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | Intel Sweden AB |
| Mr. | Zhang | Jian | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Mr. | Zhang | Kai | Huawei Tech.(UK) Co., Ltd | HUAWEI TECH. GmbH |
| Mr. | Zhu | Lei | Huawei Tech.(UK) Co., Ltd | Huawei Tech.(UK) Co., Ltd |
| Mr. | Zhu | Weihong | ZTE Corporation | ZTE Corporation |
| Ms. | Zou | Lan | Huawei Tech.(UK) Co., Ltd | Huawei Device Co., Ltd |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#130e | 2020-04-20 | 2020-04-28 | emeeting | online | S5-130 |
| SA5#131 | 2020-05-25 | 2020-05-29 | emeeting | online | S5-131 |
| SA5#132 | 2020-08-24 | 2020-08-28 | US | US | S5-132 |
| SA5#133 | 2020-10-12 | 2020-10-16 | US | US | S5-133 |
| SA5#134 | 2020-11-16 | 2020-11-20 | China | CN | S5-134 |