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

**Meeting Report  
for  
TSG SA WG5  
meeting: 135e**

**Electronic meeting, Online, 25/01/2021 to 03/02/2021**

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## 1 Opening of the meeting

## 2 Approval of the agenda

**S5-211000 Agenda**

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

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

## 3 IPR and legal declaration

The attention of the delegates to the meeting of this Technical Specification Group was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were asked to take note that they were thereby invited:

to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters.

## 4 Meetings and activities reports

### 4.1 Last SA5 meeting report

**S5-211001 Report from last SA5 meeting**

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

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

### 4.2 Last SA meeting report

### 4.3 Inter-organizational reports

## 5 Cross-SWG issues

### 5.1 Administrative issues at SA5 level

**S5-211002 e-meeting process**

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

**Decision:** The document was **revised to S5-211524**.

**S5-211003 Post e-meeting email approval status**

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

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

**S5-211010 SA5 working procedures**

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

**Decision:** The document was **revised to S5-211525**.

**S5-211011 Process for management of draft TS-TRs**

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

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

**S5-211524 e-meeting process**

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

(Replaces S5-211002)

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

**S5-211525 SA5 working procedures**

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

(Replaces S5-211010)

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

### 5.2 Technical issues at SA5 level

**S5-211314 TD tenant information to support multi-tenancy for network slice management.**

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

**Abstract:**

Cross-SWG technical issue

**Decision:** The document was **revised to S5-211458**.

**S5-211458 TD tenant information to support multi-tenancy for network slice management.**

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

(Replaces S5-211314)

**Abstract:**

Cross-SWG technical issue

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

### 5.3 Liaison statements at SA5 level

**S5-211014 LS to SA5 on NGMN 5G End-to-End Architecture Framework (Phase-3)**

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

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

**S5-211017 New Whitepaper: “Operator Platform Telco Edge proposal"**

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

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

**S5-211022 LS to SA5 on controlling the number of UEs and PDU Sessions in a Network Slice**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009214*

**Decision:** The document was **replied to in S5-211464**.

**S5-211029 LS to SA5 on Use of Inclusive Language in 3GPP**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-201143*

**ACTION: Search all Rel-17 specifications and check if they are aligned (mainly no use of "Master/Slave", White/Black list") and bring corrective CRs for the next SA5#136e to the next SA if needed. Prepare to do the same work for Rel-16 specs before Rel-17 is frozen.  
 (action on: TS rapporteurs / due by: 2021-04-18)**

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

**S5-211122 LS reply to LS on controlling the number of UEs and PDU Sessions in a Network Slice**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211464**.

**S5-211252 LS to SA2 on Slice Configurations**

*Type: LS out For: (not specified)  
 to SA2, cc SA  
 Source: Samsung Electronics Benelux BV*

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

**S5-211464 LS reply to LS on controlling the number of UEs and PDU Sessions in a Network Slice**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211122)

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

### 5.4 SA5 meeting calendar

**S5-211013 SA5 meeting calendar**

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

**Decision:** The document was **revised to S5-211526**.

**S5-211526 SA5 meeting calendar**

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

(Replaces S5-211013)

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-211004 OAM&P action list**

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

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

**S5-211005 agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

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

**S5-211006 OAM Exec Report**

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

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

**S5-211007 OAM Chair notes and conclusions**

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

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

**S5-211012 List of DraftCR input and output**

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

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

**S5-211016 LS reply to 3GPP SA5 on the relation between EDGEAPP and ETSI MEC architectures**

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

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

**S5-211018 Reply LS to SA5 on the user consent for trace reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2010894*

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

**S5-211019 LS cc SA5 on NR QoE progress in RAN3**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-207120*

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

**S5-211020 Reply LS to SA5 on QoS Monitoring for URLLC**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-207177*

**Decision:** The document was **replied to in S5-211350**.

**S5-211021 Response LS to SA5 on Enhancement of RAN Slicing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-207236*

**Decision:** The document was **replied to in S5-211512**.

**S5-211023 Reply LS to SA5 on network data analysis energy saving**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009349*

**Decision:** The document was **replied to in S5-211478**.

**S5-211024 LS to SA5 on OAM that supports RAT/frequency data**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009379*

**Decision:** The document was **replied to in S5-211521**.

**S5-211025 LS Response to SA5 on providing cell energySaving state information to NWDAF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009386*

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

**S5-211026 LS Reply ccSA5 on New service type of NR QoE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-201576*

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

**S5-211027 LS reply to SA5 on QoE Measurement Collection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-201600*

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

**S5-211028 LS to SA5 on Relation between 3GPP EDGEAPP and ETSI MEC architectures**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-202355*

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

**S5-211030 LS on O-RAN – 3GPP Cooperation on Management Services**

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

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

**S5-211031 Reply LS on network data analysis energy saving**

*Type: LS out For: Agreement  
 to 3GPP SA2, cc 3GPP SA  
 Source: Orange*

**Decision:** The document was **revised to S5-211478**.

**S5-211036 Discussion on issues found in TS 28.531 and TS 28.541**

*Type: discussion For: Endorsement  
 Source: Orange*

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

**S5-211056 Reply LS on OAM that supports RAT/frequency data**

*Type: LS out For: (not specified)  
 to SA2  
 Source: China Telecomunication Corp.*

**Decision:** The document was **revised to S5-211521**.

**S5-211078 Rel-17 CR TS 32.160 Update on template for requirement specifications**

*Type: CR For: (not specified)  
 32.160 v17.0.0 CR-0013 Cat: C (Rel-17)  
  
 Source: Huawei*

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

**S5-211081 Rel-17 time plan proposal for OAM**

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

(Replaces S5-203021)

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

**S5-211088 Collection of useful endorsed document and external communication documents**

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

(Replaces S5-206071)

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

**S5-211089 List of Approved DraftCR**

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

**Decision:** The document was **revised to S5-211461**.

**S5-211094 Reply LS on Enhancement of RAN Slicing**

*Type: LS out For: Agreement  
 to 3GPP RAN3, cc 3GPP SA2  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211512**.

**S5-211191 YANG NRM for Network Slicing**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0438 Cat: A (Rel-17)  
  
 Source: Cisco Systems Belgium*

**Abstract:**

Adds stage 3 YANG for stage 2 Network slice NRM.

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

**S5-211192 Reply LS on Enhancement of RAN Slicing**

*Type: LS out For: Approval  
 to 3GPP RAN2  
 Source: China Mobile Com. Corporation*

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

**S5-211308 Response to LS Reply on Enhancement of RAN Slicing**

*Type: LS out For: Approval  
 to RAN3, cc SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211345 LS/o ccSA5 on Establishment of new Focus Group on Autonomous Networks**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG13*

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

**S5-211346 LS/r on methodology harmonization and REST-based network management framework (reply to 3GPP TSG SA5-S5-204647)**

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

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

**S5-211347 LS/r on work progress on M.resm-AI "Requirements for energy saving management of 5G RAN system with AI" (reply to 3GPP SA5-LS1225)**

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

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

**S5-211349 YANG NRM for Network Slicing**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0452 Cat: F (Rel-16)  
  
 Source: Cisco Systems Belgium*

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

**S5-211350 LS Reply to RAN3 on QoS Monitoring for URLLC**

*Type: LS out For: Approval  
 to RAN3, cc SA2, RAN2  
 Source: Intel Finland Oy*

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

**S5-211461 List of Approved DraftCR**

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

(Replaces S5-211089)

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

**S5-211478 Reply LS on network data analysis energy saving**

*Type: LS out For: Agreement  
 to 3GPP SA2, cc 3GPP SA  
 Source: Orange*

(Replaces S5-211031)

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

**S5-211512 Reply LS on Enhancement of RAN Slicing**

*Type: LS out For: Agreement  
 to 3GPP RAN3, cc 3GPP SA2  
 Source: Ericsson LM, China Mobile Com. Corporation, Nokia, Nokia Shanghai Bell*

(Replaces S5-211094)

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

**S5-211521 Reply LS on OAM that supports RAT/frequency data**

*Type: LS out For: (not specified)  
 to SA2  
 Source: China Telecomunication Corp.*

(Replaces S5-211056)

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

### 6.2 New OAM&P Work Item proposals

**S5-211105 New WID Enhancements of Management Data Analytics Service**

*Type: WID new For: Agreement  
 Source: Intel Finland Oy, NEC*

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

**S5-211205 New SID on management aspects of network slice capability exposure**

*Type: SID new For: (not specified)  
 Source: Alibaba Group*

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

**S5-211212 Discussion on enhancement of service based management architecture**

*Type: discussion For: (not specified)  
 Source: Huawei, China Telecom, China Unicom, China Mobile*

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

**S5-211213 New WID on enhancement of service based management architecture**

*Type: WID new For: (not specified)  
 Source: Huawei, China Telecom, China Unicom, China Mobile*

**Decision:** The document was **revised to S5-211460**.

**S5-211319 Generic Plug and connect - Discussion**

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

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

**S5-211320 Generic Plug and Connect**

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

**Decision:** The document was **revised to S5-211530**.

**S5-211332 New SID on CI-CD support for netowrk slicing**

*Type: SID new For: (not specified)  
 Source: Lenovo Mobile Com. Technology*

**Decision:** The document was **revised to S5-211527**.

**S5-211338 Discussion on the need for CI-CD spec**

*Type: discussion For: (not specified)  
 Source: Lenovo Mobile Com. Technology*

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

**S5-211460 New WID on enhancement of service based management architecture**

*Type: WID new For: (not specified)  
 Source: Huawei, China Telecom, China Unicom, China Mobile, Ericsson*

(Replaces S5-211213)

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

**S5-211527 New SID on CI-CD support for netowrk slicing**

*Type: SID new For: Decision  
 Source: Lenovo Mobile Com. Technology*

(Replaces S5-211332)

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

**S5-211530 Generic Plug and Connect**

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

(Replaces S5-211320)

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

### 6.3 OAM&P Maintenance and Rel-16 small Enhancements (only Rel-16 CRs or earlier)

**S5-211038 Rel-16 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction**

*Type: CR For: (not specified)  
 28.541 v16.7.0 CR-0426 Cat: F (Rel-16)  
  
 Source: Ericsson, Orange*

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

**S5-211039 Rel-17 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction**

*Type: CR For: (not specified)  
 28.541 v17.1.0 CR-0427 Cat: A (Rel-17)  
  
 Source: Ericsson, Orange*

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

**S5-211041 Rel-16 CR TS 28.310 Introducing the ES probing procedure**

*Type: CR For: Approval  
 28.310 v16.3.0 CR-0009 Cat: F (Rel-16)  
  
 Source: KPN N.V.*

**Abstract:**

The description of ES probing procedure is added to TS 28.310, reference to TS 32.551 as well as two examples for usage of the ES probing procedure. This has been omitted till now in TS 28.310 while the procedure existed in LTE.

**Decision:** The document was **revised to S5-211480**.

**S5-211048 Rel-16 CR TS 28.531 Correction of URI of Resource**

*Type: CR For: Approval  
 28.531 v16.8.0 CR-0060 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-211055 Rel-16 CR TS 28.541 Missing attribute in YANG definitions**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0428 Cat: F (Rel-16)  
  
 Source: Orange*

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

**S5-211057 Rel-16 CR 28.536 Remove conflicting attribute definitions**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0017 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211058 Rel-16 CR 28.533 Fix errors in Exposure Governance description**

*Type: CR For: Agreement  
 28.533 v16.6.0 CR-0077 Cat: A (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211432**.

**S5-211059 Rel-15 CR 28.533 Fix errors in Exposure Governance description**

*Type: CR For: Agreement  
 28.533 v15.4.0 CR-0078 Cat: F (Rel-15)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211433**.

**S5-211060 Rel-16 CR 28.536 Clarify modelling of AssuranceGoal**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0018 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211061 Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0019 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211529**.

**S5-211077 Add new clause for URI**

*Type: CR For: Approval  
 32.422 v16.4.0 CR-0357 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211466**.

**S5-211079 Correct trace record information for immediate MDT measurement**

*Type: CR For: Approval  
 32.423 v16.3.0 CR-0120 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211467**.

**S5-211083 Add new clause for URI**

*Type: CR For: Approval  
 32.422 v17.1.0 CR-0358 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211469**.

**S5-211087 Correct trace record information for immediate MDT measurement**

*Type: CR For: Approval  
 32.423 v17.0.0 CR-0122 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211471**.

**S5-211090 Rel-16 CR 28.531 Correction of NSI and NSSI Operations**

*Type: CR For: Approval  
 28.531 v16.8.0 CR-0061 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211528**.

**S5-211091 Rel-16 CR 28.541 Correction of ServiceProfile attributes**

*Type: CR For: Approval  
 28.541 v16.7.0 CR-0429 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211362**.

**S5-211092 Rel-17 CR 28.541 Correction of ServiceProfile attributes**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0430 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211363**.

**S5-211110 Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0431 Cat: F (Rel-16)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-211481**.

**S5-211112 Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0432 Cat: A (Rel-17)  
  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-211482**.

**S5-211131 Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU**

*Type: CR For: Agreement  
 28.541 v15.7.0 CR-0433 Cat: F (Rel-15)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-211491**.

**S5-211132 Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0434 Cat: A (Rel-16)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-211492**.

**S5-211133 Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0435 Cat: A (Rel-17)  
  
 Source: China Telecommunications, Huawei*

**Decision:** The document was **revised to S5-211493**.

**S5-211216 Rel-16 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0439 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211217 Rel-17 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0440 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-211218 Rel-16 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0441 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211219 Rel-17 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0442 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-211242 Rel-16 CR 28.532 Correct definitions for the File MnS (stage 2)**

*Type: CR For: Approval  
 28.532 v16.6.0 CR-0163 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211246 Rel-16 CR 28.532 Correct definitions for the File MnS (REST SS)**

*Type: CR For: Approval  
 28.532 v16.6.0 CR-0164 Cat: F (Rel-16)  
  
 Source: Nokia; Nokia Shanghai Bell*

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

**S5-211247 Rel-16 CR 28.532 Correct definitions for the File MnS (OpenAPI definitions)**

*Type: CR For: Approval  
 28.532 v16.6.0 CR-0165 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211248 Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2)**

*Type: CR For: Approval  
 28.532 v16.6.0 CR-0166 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211532**.

**S5-211532 Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2)**

*Type: CR For: Approval  
 28.532 v16.6.0 CR-0166 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211248)

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

**S5-211250 Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2)**

*Type: CR For: Approval  
 28.622 v16.6.0 CR-0096 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211251 Rel-16 CR 28.623 Replace legacy IRPAgent with MnsAgent (stage 3)**

*Type: CR For: Approval  
 28.623 v16.6.0 CR-0119 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211258 Rel-17 CT 28.537 Add requirements for File Management**

*Type: CR For: Approval  
 28.537 v16.0.0 CR-0001 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211289 Rel-16 CR 28.545 Add missing Alarm Requirements and Use Cases**

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

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

**S5-211300 Rel-17 Draft CR 28.537 Add requirements for File Management**

*Type: other For: Approval  
 28.537 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211310 Rel-16 fix containment relationship for EP\_Transport IOC**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0444 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211456**.

**S5-211311 Rel-17 fix containment relationship for EP\_Transport IOC**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0445 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211457**.

**S5-211312 Rel-16 cleanup concepts of network slice buisness model**

*Type: CR For: Agreement  
 28.530 v16.4.0 CR-0041 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Telefónica S.A.*

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

**S5-211313 Rel-17 cleanup concepts of network slice buisness model**

*Type: CR For: Agreement  
 28.530 v17.0.0 CR-0042 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Telefónica S.A.*

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

**S5-211327 Proposal on communication service assurance stage 1 and stage 2 alignment**

*Type: discussion For: Endorsement  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211328 Rel 16 CR TS 28.535 Update use cases and requirements to replace communication service**

*Type: CR For: Approval  
 28.535 v16.2.0 CR-0026 Cat: F (Rel-16)  
  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211329 Rel 17 CR TS 28.535 Update use cases and requirements to replace communication service**

*Type: CR For: Approval  
 28.535 v17.0.0 CR-0027 Cat: A (Rel-17)  
  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211330 Rel 16 CR TS 28.535 Remove use cases and requirements with no solution**

*Type: CR For: Approval  
 28.535 v16.2.0 CR-0028 Cat: F (Rel-16)  
  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211331 Rel 16 CR TS 28.536 Remove overview from stage 2 description**

*Type: CR For: Approval  
 28.536 v16.2.1 CR-0022 Cat: F (Rel-16)  
  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211333 Rel 16 CR TS 28.535 Clarify intelligence in clause 4**

*Type: CR For: Approval  
 28.535 v16.2.0 CR-0029 Cat: F (Rel-16)  
  
 Source: Ericsson LM, Deutsche Telekom*

**Decision:** The document was **revised to S5-211474**.

**S5-211336 Discussion paper on state management**

*Type: discussion For: Endorsement  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211337 Rel 16 CR TS 28.536 add explanation for Entities in loop**

*Type: CR For: (not specified)  
 28.536 v16.2.1 CR-0023 Cat: F (Rel-16)  
  
 Source: Lenovo Mobile Com. Technology*

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

**S5-211341 Rel-16 fix compilation error in 28541**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0450 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211342 Rel-17 fix compilation error in 28541**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0451 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211343 Rel-16 fix compilation error in 28623**

*Type: CR For: Agreement  
 28.623 v16.6.0 CR-0121 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211344 Rel-16 fix compilation error in 28532**

*Type: CR For: Agreement  
 28.532 v16.6.0 CR-0167 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211348 TD forge process proposal for yaml code in 135e meeting**

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

**ACTION: Produce a proposal to make the Gitlab/Forge code the primary source  
 (action on: Jing Ping (Nokia), Balazs (Ericsson) / due by: 2021-04-18)**

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

**S5-211351 Correcting YANG errors**

*Type: CR For: Approval  
 28.623 v16.6.0 CR-0122 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211352 Correct YANG errors**

*Type: CR For: Approval  
 28.541 v16.7.0 CR-0453 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211362 Rel-16 CR 28.541 Correction of ServiceProfile attributes**

*Type: CR For: Approval  
 28.541 v16.7.0 CR-0429 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211091)

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

**S5-211363 Rel-17 CR 28.541 Correction of ServiceProfile attributes**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0430 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211092)

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

**S5-211432 Rel-16 CR 28.533 Fix errors in Exposure Governance description**

*Type: CR For: Agreement  
 28.533 v16.6.0 CR-0077 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-211058)

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

**S5-211433 Rel-15 CR 28.533 Fix errors in Exposure Governance description**

*Type: CR For: Agreement  
 28.533 v15.4.0 CR-0078 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-211059)

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

**S5-211456 Rel-16 fix containment relationship for EP\_Transport IOC**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0444 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211310)

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

**S5-211457 Rel-17 fix containment relationship for EP\_Transport IOC**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0445 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211311)

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

**S5-211466 Add new clause for URI**

*Type: CR For: Approval  
 32.422 v16.4.0 CR-0357 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211077)

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

**S5-211467 Correct trace record information for immediate MDT measurement**

*Type: CR For: Approval  
 32.423 v16.3.0 CR-0120 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211079)

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

**S5-211469 Add new clause for URI**

*Type: CR For: Approval  
 32.422 v17.1.0 CR-0358 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211083)

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

**S5-211471 Correct trace record information for immediate MDT measurement**

*Type: CR For: Approval  
 32.423 v17.0.0 CR-0122 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211087)

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

**S5-211474 Rel 16 CR TS 28.535 Clarify intelligence in clause 4**

*Type: CR For: Approval  
 28.535 v16.2.0 CR-0029 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM, Deutsche Telekom*

(Replaces S5-211333)

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

**S5-211480 Rel-16 CR TS 28.310 Introducing the ES probing procedure**

*Type: CR For: Approval  
 28.310 v16.3.0 CR-0009 rev 1 Cat: F (Rel-16)  
  
 Source: KPN N.V.*

(Replaces S5-211041)

**Abstract:**

The description of ES probing procedure is added to TS 28.310, reference to TS 32.551 as well as two examples for usage of the ES probing procedure. This has been omitted till now in TS 28.310 while the procedure existed in LTE.

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

**S5-211481 Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0431 rev 1 Cat: F (Rel-16)  
  
 Source: Intel Finland Oy*

(Replaces S5-211110)

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

**S5-211482 Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0432 rev 1 Cat: A (Rel-17)  
  
 Source: Intel Finland Oy*

(Replaces S5-211112)

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

**S5-211491 Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU**

*Type: CR For: Agreement  
 28.541 v15.7.0 CR-0433 rev 1 Cat: F (Rel-15)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-211131)

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

**S5-211492 Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU**

*Type: CR For: Agreement  
 28.541 v16.7.0 CR-0434 rev 1 Cat: A (Rel-16)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-211132)

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

**S5-211493 Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0435 rev 1 Cat: A (Rel-17)  
  
 Source: China Telecommunications, Huawei*

(Replaces S5-211133)

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

**S5-211522 Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0019 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

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

**S5-211528 Rel-16 CR 28.531 Correction of NSI and NSSI Operations**

*Type: CR For: Approval  
 28.531 v16.8.0 CR-0061 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211090)

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

**S5-211529 Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0019 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson*

(Replaces S5-211061)

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

**S5-211533 Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2)**

*Type: CR For: Approval  
 28.622 v16.6.0 CR-0096 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211250)

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

### 6.4 Rel-17 Operations, Administration, Maintenance and Provisioning (OAM&P)

#### 6.4.1 Management of non-public networks

**S5-211106 pCR 28.557 Add CAG management**

*Type: pCR For: Approval  
 28.557 v0.2.0  
 Source: TELEFONICA S.A.*

**Decision:** The document was **revised to S5-211479**.

**S5-211137 pCR 28.557 Management modes of NPN**

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

**Decision:** The document was **revised to S5-211494**.

**S5-211138 pCR 28.557 Roles related to 5G PLMN management and NPN management**

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

**Decision:** The document was **revised to S5-211495**.

**S5-211139 pCR 28.557 Update on NID for SNPN management**

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

**Decision:** The document was **revised to S5-211496**.

**S5-211140 pCR 28.557 Update on use case of SNPN**

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

**Decision:** The document was **revised to S5-211497**.

**S5-211141 pCR 28.557 Collecting UE related data and providing to authorized NPN service customer**

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

**Decision:** The document was **revised to S5-211498**.

**S5-211142 pCR 28.557 Add generic requirements for management of NPN**

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

**Decision:** The document was **revised to S5-211499**.

**S5-211479 pCR 28.557 Add CAG management**

*Type: pCR For: Approval  
 28.557 v0.2.0  
 Source: TELEFONICA S.A.*

(Replaces S5-211106)

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

**S5-211494 pCR 28.557 Management modes of NPN**

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

(Replaces S5-211137)

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

**S5-211495 pCR 28.557 Roles related to 5G PLMN management and NPN management**

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

(Replaces S5-211138)

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

**S5-211496 pCR 28.557 Update on NID for SNPN management**

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

(Replaces S5-211139)

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

**S5-211497 pCR 28.557 Update on use case of SNPN**

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

(Replaces S5-211140)

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

**S5-211498 pCR 28.557 Collecting UE related data and providing to authorized NPN service customer**

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

(Replaces S5-211141)

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

**S5-211499 pCR 28.557 Add generic requirements for management of NPN**

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

(Replaces S5-211142)

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

**S5-211509 Latest draft TS 28.557**

*Type: draft TS For: Approval  
 28.557 v0.3.0  
 Source: Huawei*

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

#### 6.4.2 Enhancement on Management Aspects of 5G Service-Level Agreement

**S5-211066 Rel-17 Input to draftCR 28.541 update CN sliceProfile**

*Type: other For: Approval  
 28.541 v..  
 Source: Huawei*

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

**S5-211143 Rel-17 CR 28.541 Add positioning support in ServiceProfile**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0436 Cat: B (Rel-17)  
  
 Source: Huawei, China Mobile*

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

**S5-211144 Rel-17 CR 28.541 Add synchronicity support in ServiceProfile**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0437 Cat: B (Rel-17)  
  
 Source: Huawei, China Mobile*

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

**S5-211145 Living document of review of GSMA GST SA5#135e**

*Type: other For: Approval  
 28.541 v..  
 Source: Huawei, China Mobile*

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

**S5-211159 Rel-17 Input to draftCR 28.541 Add new attributes in CNSliceSubnetProfile and RANSliceSubnetProfile**

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

**Decision:** The document was **revised to S5-211446**.

**S5-211160 Rel-17 Input to draftCR 28.541 Define performance requirements in different domains and update the related slice profile**

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

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

**S5-211245 Rel-17 Input To draftCR for WI eMA5SLA Slice Profile**

*Type: other For: Agreement  
 28.541 v..  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-211504**.

**S5-211249 Rel-17 Input To draftCR for WI eMA5SLA Configuration Parameters**

*Type: other For: Agreement  
 28.541 v..  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-211505**.

**S5-211334 Discussion paper on latency**

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

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

**S5-211335 Rel-17 TS 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0449 Cat: C (Rel-17)  
  
 Source: Ericsson LM, Deutsche Telekom*

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

**S5-211356 Update DraftCR for WI EMA5SLA-TS 28.540**

*Type: draftCR For: (not specified)  
 28.540 v17.0.0  
 Source: China Mobile Com. Corporation*

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

**S5-211357 Update DraftCR for WI EMA5SLA-TS 28.541**

*Type: draftCR For: (not specified)  
 28.541 v17.1.0  
 Source: China Mobile Com. Corporation*

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

**S5-211359 Rel-17 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA**

*Type: other For: Approval  
 28.541 v..  
 Source: Ericsson LM*

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

**S5-211446 Rel-17 Input to draftCR 28.541 Add new attributes in CNSliceSubnetProfile and RANSliceSubnetProfile**

*Type: other For: (not specified)  
 Source: China Mobile Com. Corporation, Huawei, China Southern Power Grid*

(Replaces S5-211159)

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

**S5-211504 Rel-17 Input To draftCR for WI eMA5SLA Slice Profile**

*Type: other For: Agreement  
 28.541 v..  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-211245)

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

**S5-211505 Rel-17 Input To draftCR for WI eMA5SLA Configuration Parameters**

*Type: other For: Agreement  
 28.541 v..  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-211249)

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

#### 6.4.3 Management of MDT enhancement in 5G

**S5-211051 Discussion on user consent for RLF and CEF report**

*Type: discussion For: Decision  
 Source: Apple, Intel, Qualcomm Incorporated*

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

**S5-211062 Rel-16 CR TS 32.422 Clarify failure happened in signalling activation**

*Type: CR For: Agreement  
 32.422 v16.4.0 CR-0353 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211063 Rel-17 CR TS 32.422 Clarify failure happened in signalling activation**

*Type: CR For: Agreement  
 32.422 v17.1.0 CR-0354 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-211064 Rel-16 CR TS 32.422 Correct tracing roaming subscribers case**

*Type: CR For: Agreement  
 32.422 v16.4.0 CR-0355 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211065 Rel-17 CR TS 32.422 Correct tracing roaming subscribers case**

*Type: CR For: Agreement  
 32.422 v17.1.0 CR-0356 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-211082 Add new requirement for GPB trace format**

*Type: CR For: Approval  
 32.421 v17.0.0 CR-0097 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211468**.

**S5-211086 Add new parameters for trace record header**

*Type: CR For: Approval  
 32.423 v17.0.0 CR-0121 Cat: C (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211470**.

**S5-211468 Add new requirement for GPB trace format**

*Type: CR For: Approval  
 32.421 v17.0.0 CR-0097 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211082)

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

**S5-211470 Add new parameters for trace record header**

*Type: CR For: Approval  
 32.423 v17.0.0 CR-0121 rev 1 Cat: C (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211086)

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

#### 6.4.4 Additional NRM features

**S5-211080 New pattern of mapping classes and containment in YANG**

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

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

**S5-211084 YANG containment mapping**

*Type: CR For: Approval  
 32.160 v17.0.0 CR-0014 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211286 Code begin end markers**

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

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

**S5-211299 Correct NtfSubscriptionControl containment in YANG**

*Type: CR For: Approval  
 28.623 v16.6.0 CR-0120 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211316 Correct NR endpoint classes containment in YANG**

*Type: CR For: Approval  
 28.541 v16.7.0 CR-0447 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211318 Correct NR endpoint classes containment in YANG**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0448 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211353 Correct YANG errors**

*Type: CR For: Approval  
 28.541 v17.1.0 CR-0454 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-211430 YANG containment mapping**

*Type: CR For: Approval  
 32.160 v17.0.0 CR-0015 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

#### 6.4.5 Enhancement of QoE Measurement Collection

**S5-211232 Adding Signalling Based Activation for UTRAN and LTE**

*Type: other For: Approval  
 28.405 v..  
 Source: Ericsson LM*

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

**S5-211510 DraftCR for WI eQoE**

*Type: draftCR For: (not specified)  
 28.405 v16.0.0  
 Source: Ericsson*

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

#### 6.4.6 Enhancements of 5G performance measurements and KPIs

**S5-211049 Rel-17 CR TS 28.552 Addition of SMS message delivery related measurements for SMSF**

*Type: CR For: Approval  
 28.552 v17.1.0 CR-0282 Cat: B (Rel-17)  
  
 Source: China Mobile Com. Corporation*

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

**S5-211050 Rel-17 CR TS 28.552 Addition of Registration measurements for SMSF**

*Type: CR For: Approval  
 28.552 v17.1.0 CR-0283 Cat: B (Rel-17)  
  
 Source: China Mobile Com. Corporation*

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

**S5-211093 Rel-17 TS 28.554 How to update the accessibility KPI to cover RRC Resume**

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

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

**S5-211102 Input to draft CR Rel-17 28.552 Add measurements on SMF-NEF connection establishment**

*Type: other For: Agreement  
 28.552 v..  
 Source: Intel Finland Oy*

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

**S5-211103 Input to draft CR Rel-17 28.552 Add measurements on service specific parameter provisioning**

*Type: other For: Agreement  
 28.552 v..  
 Source: Intel Finland Oy*

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

**S5-211104 Input to draft CR Rel-17 28.552 Add measurements on policy negotiation for future background data transfer**

*Type: other For: Agreement  
 28.552 v..  
 Source: Intel Finland Oy*

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

**S5-211355 DraftCR for 6.4.6 ePM\_KPI\_5G - TS 28.552**

*Type: draftCR For: Approval  
 28.552 v17.1.0  
 Source: Intel*

(Replaces S5-205282)

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

#### 6.4.7 Management of the enhanced tenant concept

**S5-211315 add tenant information in NRM**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0446 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 6.4.8 Management data collection control and discovery

**S5-211281 Rel-17 CT 28.537 Add requirements for Management Data Management**

*Type: CR For: Approval  
 28.537 v16.0.0 CR-0002 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211301 Rel-17 Draft CR 28.537 Add requirements for Management Data Management**

*Type: draftCR For: Approval  
 28.537 v16.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 6.4.9 Autonomous network levels

**S5-211199 Add ANL high level features**

*Type: CR For: Approval  
 28.530 v17.0.0 CR-0039 Cat: B (Rel-17)  
  
 Source: Huawei Telecommunication India*

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

**S5-211220 pCR TS 28.100 Update use case for coverage optimization**

*Type: pCR For: Approval  
 28.100 v0.2.0  
 Source: Huawei, China Mobile, China Telecom,China Unicom*

**Decision:** The document was **revised to S5-211443**.

**S5-211229 pCR 28.100 Update clause 4.3.4 workflow**

*Type: pCR For: Approval  
 28.100 v0.2.0  
 Source: China Mobile, Huawei, China Telecom, China Unicom*

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

**S5-211230 pCR 28.100 Add use case and requirements for fault management**

*Type: pCR For: Approval  
 28.100 v0.2.0  
 Source: China Mobile, Huawei, China Telecom, China Unicom*

**Decision:** The document was **revised to S5-211459**.

**S5-211443 pCR TS 28.100 Update use case for coverage optimization**

*Type: pCR For: Approval  
 28.100 v0.2.0  
 Source: Huawei, China Mobile, China Telecom,China Unicom*

(Replaces S5-211220)

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

**S5-211459 pCR 28.100 Add use case and requirements for fault management**

*Type: pCR For: Approval  
 28.100 v0.2.0  
 Source: China Mobile, Huawei, China Telecom, China Unicom*

(Replaces S5-211230)

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

**S5-211472 draft TS 28100-030**

*Type: draft TS For: Approval  
 28.100 v0.3.0  
 Source: China Mobile Com. Corporation*

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

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

**S5-211221 pCR TS 28.312 Update the intent definition to align with concept**

*Type: pCR For: Approval  
 28.312 v0.2.0  
 Source: Huawei,Ericsson*

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

**S5-211222 pCR TS 28.312 Add concept for intent lifecycle management**

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

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

**S5-211223 pCR TS 28.312 Add stage 2 information model definition for intent**

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

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

**S5-211224 pCR TS 28.312 Add stage 2 management operation for intent**

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

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

**S5-211225 pCR TS 28.312 Add stage 2 procedure for intent lifecycle management**

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

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

**S5-211445 Latest draft TS 28.312**

*Type: draft TS For: Approval  
 28.312 v0.3.0  
 Source: HUAWEI Technologies Japan K.K.*

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

#### 6.4.11 Network policy management for 5G mobile networks based on NFV scenarios

#### 6.4.12 Enhanced Closed loop SLS Assurance

**S5-211147 DP on MnS types for closed control loop**

*Type: discussion For: Approval  
 Source: Huawei Technologies Japan K.K.*

**Decision:** The document was **revised to S5-211523**.

**S5-211149 Rel-17 CR TS 28.535 MnS types for closed control loop**

*Type: CR For: Agreement  
 28.535 v17.0.0 CR-0023 Cat: B (Rel-17)  
  
 Source: Huawei Technologies Japan K.K.*

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

**S5-211151 Rel-17 CR TS 28.536 Add assurance policy for closed control loop**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0020 Cat: B (Rel-17)  
  
 Source: Huawei Technologies Japan K.K.*

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

**S5-211152 Rel-17 CR TS 28.536 Add assurance report for closed control loop**

*Type: CR For: Agreement  
 28.536 v16.2.1 CR-0021 Cat: B (Rel-17)  
  
 Source: Huawei Technologies Japan K.K.*

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

**S5-211161 Rel-17 CR TS 28.535 Configure policies of control loop**

*Type: CR For: Agreement  
 28.535 v17.0.0 CR-0024 Cat: B (Rel-17)  
  
 Source: Huawei Technologies France*

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

**S5-211190 Rel-17 CR TS 28.535 add relationship between control loop and Communication service and NetworkSlice LCM**

*Type: CR For: Agreement  
 28.535 v17.0.0 CR-0025 Cat: B (Rel-17)  
  
 Source: Huawei Technologies France*

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

**S5-211201 Add requirements of closed loop SLS assurance**

*Type: CR For: Approval  
 28.530 v17.0.0 CR-0040 Cat: B (Rel-17)  
  
 Source: Huawei Telecommunication India*

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

**S5-211339 Discussion on how to document solutions for ACCL use cases**

*Type: discussion For: (not specified)  
 28.536 v..  
 Source: Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S5-211531**.

**S5-211354 Rel 17 CR TS 28.535 Add use cases left from rel-16**

*Type: CR For: (not specified)  
 28.535 v17.0.0 CR-0030 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-211358 Rel-17 draft CR 28.535 eCOSLA**

*Type: draftCR For: Approval  
 28.535 v17.0.0  
 Source: Ericsson LM*

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

**S5-211523 DP on MnS types for closed control loop**

*Type: discussion For: Approval  
 Source: Huawei Technologies Japan K.K.*

(Replaces S5-211147)

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

**S5-211531 Discussion on how to document solutions for ACCL use cases**

*Type: discussion For: (not specified)  
 28.536 v..  
 Source: Lenovo, Motorola Mobility*

(Replaces S5-211339)

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

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

**S5-211128 Add LBO use cases, requirements, and related information**

*Type: other For: Approval  
 28.313 v..  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211431**.

**S5-211129 Add PCI related measurement**

*Type: CR For: Approval  
 28.313 v16.1.0 CR-0012 Cat: F (Rel-16)  
  
 Source: Intel Deutschland GmbH*

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

**S5-211130 Add PCI related measurement**

*Type: CR For: Approval  
 28.313 v17.0.0 CR-0013 Cat: A (Rel-17)  
  
 Source: Intel Deutschland GmbH*

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

**S5-211226 Rel-17 CR TS 28.313 update procedure for plug and connect to management system**

*Type: CR For: Agreement  
 28.313 v17.0.0 CR-0014 Cat: B (Rel-17)  
  
 Source: Huawei,China Telecom*

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

**S5-211227 Rel-17 CR TS 32.508 update procedures flows to applicable for RAN NE**

*Type: CR For: Agreement  
 32.508 v16.0.0 CR-0001 Cat: B (Rel-17)  
  
 Source: Huawei,China Telecom*

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

**S5-211361 LS on the clarification of HO and/or reselection parameters ranges required by MLB**

*Type: LS out For: Approval  
 to RAN3  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211442**.

**S5-211431 Add LBO use cases, requirements, and related information**

*Type: other For: Approval  
 28.313 v..  
 Source: Intel Deutschland GmbH*

(Replaces S5-211128)

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

**S5-211442 LS on the clarification of HO and/or reselection parameters ranges required by MLB**

*Type: LS out For: Approval  
 to RAN3  
 Source: Intel Deutschland GmbH*

(Replaces S5-211361)

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

**S5-211487 DraftCR for WI eSON\_5G**

*Type: draftCR For: Approval  
 28.313 v17.0.0  
 Source: Intel Deutschland GmbH*

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

#### 6.4.14 Enhancement of Handover Optimization

**S5-211321 CHO measurements discussion**

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

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

**S5-211322 CHO measurements**

*Type: CR For: Approval  
 28.552 v17.1.0 CR-0287 Cat: B (Rel-17)  
  
 Source: Ericsson France S.A.S*

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

**S5-211323 CHO measurements KPI**

*Type: CR For: Approval  
 28.554 v17.1.1 CR-0074 Cat: B (Rel-17)  
  
 Source: Ericsson France S.A.S*

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

**S5-211324 LS on Handover terminology**

*Type: LS out For: Approval  
 to RAN2,RAN3  
 Source: Ericsson France S.A.S*

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

#### 6.4.15 Enhancements on EE for 5G networks

**S5-211035 Rel-17 CR TS 28.310 Add introductory text to EE KPIs for network slices**

*Type: CR For: Agreement  
 28.310 v16.3.0 CR-0008 Cat: B (Rel-17)  
  
 Source: Orange, AT&T, Deutsche Telekom*

**Decision:** The document was **revised to S5-211441**.

**S5-211234 Rel-17 CR TS 28.544 Enlarge scope of the EE KPI for eMBB**

*Type: CR For: Agreement  
 28.554 v17.1.1 CR-0073 Cat: B (Rel-17)  
  
 Source: Orange*

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

**S5-211441 Rel-17 CR TS 28.310 Add introductory text to EE KPIs for network slices**

*Type: CR For: Agreement  
 28.310 v16.3.0 CR-0008 rev 1 Cat: B (Rel-17)  
  
 Source: Orange, AT&T, Deutsche Telekom*

(Replaces S5-211035)

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

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

**S5-211067 Rel-17 CR 28.530 Add DMS use cases and requirements**

*Type: CR For: Agreement  
 28.530 v17.0.0 CR-0038 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-211068 Rel-17 CR 28.533 Remove DMS use case and requirements**

*Type: CR For: Agreement  
 28.533 v16.6.0 CR-0079 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-211069 Updated baseline for DraftCR for 5GDMS - TS 28.533**

*Type: draftCR For: Approval  
 28.533 v16.6.0  
 Source: Huawei*

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

**S5-211215 TS28.533 Add Management Service Type**

*Type: CR For: (not specified)  
 28.533 v16.6.0 CR-0080 Cat: C (Rel-17)  
  
 Source: China Mobile Com. Corporation*

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

**S5-211360 Input to DraftCR TS28.533 Add Management Service Type**

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

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

**S5-211367 Rel-17 CR 28.537 Add DMS use cases and requirements**

*Type: CR For: Agreement  
 28.537 v16.0.0 CR-0003 Cat: B (Rel-17)  
  
 Source: Huawei Technologies Sweden AB*

**Abstract:**

Use cases and requirements for Discovery of Management Services are moved from 28.533 to 28.537.

Use cases are extended and rewritten.

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

#### 6.4.17 Management Aspects of 5G Network Sharing

**S5-211052 Rel-17 CR TS 28.552 Add PLMN granularity for number of active UEs measurements**

*Type: CR For: Agreement  
 28.552 v17.1.0 CR-0284 Cat: B (Rel-17)  
  
 Source: China Telecommunications*

**Decision:** The document was **revised to S5-211489**.

**S5-211053 Rel-17 CR TS 28.552 Add PLMN granularity for packet delay measurements**

*Type: CR For: Agreement  
 28.552 v17.1.0 CR-0285 Cat: B (Rel-17)  
  
 Source: China Telecommunications*

**Decision:** The document was **revised to S5-211490**.

**S5-211156 Rel-17 CR TS 32.130 Update the scope and background of network sharing scenarios**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0003 Cat: B (Rel-17)  
  
 Source: China Telecommunications, China Unicom, Huawei*

**Decision:** The document was **revised to S5-211465**.

**S5-211193 Rel-17 CR TS 32.130 update the scope to support 5G network sharing**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0004 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

**S5-211194 Rel-17 CR TS 32.130 update the concept**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0005 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

**S5-211195 Rel-17 CR TS 32.130 update the business requirements**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0006 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-211488**.

**S5-211196 Discussion on NG-RAN network sharing with multiple CellId**

*Type: discussion For: Endorsement  
 Source: ZTE Corporation, China Unicom*

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

**S5-211197 Discussion on NG-RAN network sharing with multi-SSB**

*Type: discussion For: Endorsement  
 Source: ZTE Corporation*

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

**S5-211198 Discussion on NG-RAN network sharing with multi-SSB**

*Type: discussion For: Endorsement  
 Source: ZTE Corporation*

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

**S5-211206 Rel-17 CR TS 32.130 add NG-RAN sharing deployment example in Annex**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0007 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S5-211228 Discussion paper for NR NRM support 5G MOCN network sharing scenario**

*Type: discussion For: Endorsement  
 28.540 v..  
 Source: Huawei,China Unicom*

**Decision:** The document was **revised to S5-211444**.

**S5-211231 Discussion on support radio resource usage per PLMN in MOCN network sharing**

*Type: discussion For: Endorsement  
 28.552 v..  
 Source: China Unicom*

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

**S5-211235 Add PLMN granularity for Radio resource utilization measurements**

*Type: CR For: Approval  
 28.552 v17.1.0 CR-0286 Cat: B (Rel-17)  
  
 Source: China Unicom, ZTE, HUAWEI*

**Decision:** The document was **revised to S5-211501**.

**S5-211287 Discussion on NR NRM support for MOCN**

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

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

**S5-211288 Rel-17 CR TS 28.541 RAN Sharing support MOCN**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0443 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-211422 RAN Sharing support MOCN**

*Type: CR For: Agreement  
 28.541 v17.1.0 CR-0455 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-211444 Discussion paper for NR NRM support 5G MOCN network sharing scenario**

*Type: discussion For: Endorsement  
 28.540 v..  
 Source: Huawei,China Unicom*

(Replaces S5-211228)

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

**S5-211465 Rel-17 CR TS 32.130 Update the scope and background of network sharing scenarios**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0003 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecommunications, China Unicom, Huawei, ZTE*

(Replaces S5-211156)

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

**S5-211488 Rel-17 CR TS 32.130 update the business requirements**

*Type: CR For: Agreement  
 32.130 v16.0.0 CR-0006 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S5-211195)

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

**S5-211489 Rel-17 CR TS 28.552 Add PLMN granularity for number of active UEs measurements**

*Type: CR For: Agreement  
 28.552 v17.1.0 CR-0284 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecommunications*

(Replaces S5-211052)

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

**S5-211490 Rel-17 CR TS 28.552 Add PLMN granularity for packet delay measurements**

*Type: CR For: Agreement  
 28.552 v17.1.0 CR-0285 rev 1 Cat: B (Rel-17)  
  
 Source: China Telecommunications*

(Replaces S5-211053)

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

**S5-211501 Add PLMN granularity for Radio resource utilization measurements**

*Type: CR For: Approval  
 28.552 v17.1.0 CR-0286 rev 1 Cat: B (Rel-17)  
  
 Source: China Unicom, ZTE, HUAWEI*

(Replaces S5-211235)

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

### 6.5 OAM&P Studies

#### 6.5.1 Study on management and orchestration aspects with integrated satellite components in a 5G network

**S5-211241 pCR 28.808 Allign Terms clause with TR 21.801 based on comments received from ETSI EditHelp**

*Type: pCR For: Approval  
 28.808 v1.0.0  
 Source: TNO*

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

**S5-211243 pCR 28.808 Clarify use of -shall- in potential requirements based on comments received from ETSI EditHelp**

*Type: pCR For: Approval  
 28.808 v1.0.0  
 Source: TNO*

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

**S5-211244 pCR 28.808 Editorial corrections based on comments received from ETSI EditHelp**

*Type: pCR For: Approval  
 28.808 v1.0.0  
 Source: TNO*

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

**S5-211511 Draft TR28.808**

*Type: draft TR For: Approval  
 28.808 v1.1.0  
 Source: TNO*

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

#### 6.5.2 Study on new aspects of EE for 5G networks

**S5-211032 pCR TR 28.813 Remove Introduction and add Scope**

*Type: pCR For: Approval  
 28.813 v0.3.0  
 Source: Orange*

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

**S5-211033 pCR TR 28.813 Update clause 4.4 to align with already approved CR**

*Type: pCR For: Approval  
 28.813 v0.3.0  
 Source: Orange*

**Decision:** The document was **revised to S5-211439**.

**S5-211034 pCR TR 28.813 New Key Issue: TR 21.866 EE control framework**

*Type: pCR For: Approval  
 28.813 v0.3.0  
 Source: Orange, AT&T, Deutsche Telekom*

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

**S5-211037 pCR TR 28.813 Potential solutions for KI#5 (5GC NF Energy Consumption)**

*Type: pCR For: Approval  
 28.813 v0.3.0  
 Source: Orange, AT&T, Deutsche Telekom, Huawei*

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

**S5-211040 pCR TR 28.813 New Key Issue: 5GC Energy Consumption**

*Type: pCR For: Approval  
 28.813 v0.3.0  
 Source: Orange, AT&T, Huawei*

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

**S5-211136 pCR 28.813 Update on EE KPI for URLLC type of network slice**

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

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

**S5-211154 Discussion Paper on providing cell energySaving Status information to NWDAF via Generic Provisioning Services**

*Type: discussion For: Endorsement  
 28.813 v..  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

The potential solution using Provisioning service to provide cell energySaving Status information to NWDAF was introduced and discussed.

**Decision:** The document was **revised to S5-211437**.

**S5-211155 LS on providing cell energySaving Status information to NWDAF**

*Type: LS out For: (not specified)  
 to SA2  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

Providing update about the discussion on providing cell energySaving Status information to NWDAF and asking SA2 for feedback

**Decision:** The document was **revised to S5-211438**.

**S5-211157 Rel-17 CR 28.554 Add Resource Consumption KPI for NF and 5GC**

*Type: CR For: Approval  
 28.554 v17.1.1 CR-0072 Cat: B (Rel-17)  
  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

Define KPI for the resoucrce consumption of a network function and the 5GC.

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

**S5-211437 Discussion Paper on providing cell energySaving Status information to NWDAF via Generic Provisioning Services**

*Type: discussion For: Endorsement  
 28.813 v..  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-211154)

**Abstract:**

The potential solution using Provisioning service to provide cell energySaving Status information to NWDAF was introduced and discussed.

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

**S5-211438 LS on providing cell energySaving Status information to NWDAF**

*Type: LS out For: (not specified)  
 to SA2  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-211155)

**Abstract:**

Providing update about the discussion on providing cell energySaving Status information to NWDAF

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

**S5-211439 pCR TR 28.813 Update clause 4.4 to align with already approved CR**

*Type: pCR For: Approval  
 28.813 v0.3.0  
 Source: Orange*

(Replaces S5-211033)

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

**S5-211440 Draft TR 28.813**

*Type: draft TR For: Approval  
 28.813 v0.4.0  
 Source: Orange*

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

#### 6.5.3 Study on management aspects of edge computing

**S5-211070 pCR 28.814 Add UC for using MEC to deploy EAS**

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

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

**S5-211071 pCR 28.814 solution for ECS deployment**

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

**Decision:** The document was **revised to S5-211508**.

**S5-211111 pCR 28.814 add editorial changes to restructure EAS deployment solution**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211519**.

**S5-211113 pCR 28.814 EAS performance assurance use case**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

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

**S5-211114 pCR 28.814 EAS performance assurance solution**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211514**.

**S5-211115 pCR 28.814 add solutions for EES deployment**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211515**.

**S5-211116 pCR 28.814 add solutions for ECS deployment**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211516**.

**S5-211117 pCR 28.814 UC of UPF selection to support EAS deployment**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

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

**S5-211118 pCR 28.814 UC of access to 5GC functions**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

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

**S5-211119 pCR 28.814 add solutions for UPF selection to assist EAS deployment**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

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

**S5-211120 pCR 28.814 add solutions for connection Information to enable access to 5GC functions**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

**Decision:** The document was **revised to S5-211518**.

**S5-211254 pCR 28.814 Solution for Edge Performance Assurance**

*Type: pCR For: Agreement  
 28.814 v0.2.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-211506**.

**S5-211255 pCR 28.814 Solution for EES deployment**

*Type: pCR For: Agreement  
 28.814 v0.2.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-211507**.

**S5-211257 pCR 28.814 Solution for ECS deployment**

*Type: pCR For: Agreement  
 28.814 v0.2.0  
 Source: Samsung Electronics Benelux BV*

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

**S5-211506 pCR 28.814 Solution for Edge Performance Assurance**

*Type: pCR For: Agreement  
 28.814 v0.2.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-211254)

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

**S5-211507 pCR 28.814 Solution for EES deployment**

*Type: pCR For: Agreement  
 28.814 v0.2.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-211255)

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

**S5-211508 pCR 28.814 solution for ECS deployment**

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

(Replaces S5-211071)

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

**S5-211513 pCR 28.814 EAS performance assurance use case**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

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

**S5-211514 pCR 28.814 EAS performance assurance solution**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

(Replaces S5-211114)

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

**S5-211515 pCR 28.814 add solutions for EES deployment**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

(Replaces S5-211115)

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

**S5-211516 pCR 28.814 add solutions for ECS deployment**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

(Replaces S5-211116)

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

**S5-211517 pCR 28.814 UC of access to 5GC functions**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

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

**S5-211518 pCR 28.814 add solutions for connection Information to enable access to 5GC functions**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

(Replaces S5-211120)

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

**S5-211519 pCR 28.814 add editorial changes to restructure EAS deployment solution**

*Type: pCR For: Approval  
 28.814 v0.2.0  
 Source: Intel Deutschland GmbH*

(Replaces S5-211111)

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

**S5-211520 Draft TR 28.814 V0.3.0**

*Type: draft TR For: Approval  
 28.814 v0.3.0  
 Source: Intel Deutschland GmbH*

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

#### 6.5.4 Study on enhancement of Management Data Analytics Service

**S5-211054 pCR 28.809 Update solution on MDA assisted energy saving**

*Type: pCR For: (not specified)  
 28.809 v1.1.0  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S5-211447**.

**S5-211072 pCR 28.809 Update alarm malfunction analytics**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Huawei*

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

**S5-211073 pCR 28.809 Alignment of internal references**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Huawei*

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

**S5-211085 SOD on MDAS use cases**

*Type: other For: Information  
 Source: Huawei Technologies (Korea)*

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

**S5-211098 pCR 28.809 Update diagram of MDA process**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-211483**.

**S5-211099 pCR 28.809 Add scope**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy, NEC*

**Decision:** The document was **revised to S5-211485**.

**S5-211100 pCR 28.809 Rapporture clean-up**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy, NEC*

**Decision:** The document was **revised to S5-211484**.

**S5-211101 pCR 28.809 Add general conclusions and recommendations**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy, HUAWEI*

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

**S5-211134 pCR 28.809 Update the use case of traffice projection**

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

**Decision:** The document was **revised to S5-211449**.

**S5-211135 pCR 28.809 Update the analytics report for alarm incident analysis**

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

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

**S5-211146 pCR 28.809 Update on MDA assisted energy saving**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-211500**.

**S5-211153 pCR 28.809 Update solution on MDA assisted energy saving to provide necessary information in output**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: China Telecom Corporation Ltd.*

**Abstract:**

In order to get rid of the potential ambiguity, it is propose to provide the cells current EnergySaving State information to the consumer as a part of the output of the solution of MDA assisted energy saving.

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

**S5-211158 Discussion paper on UPF load prediction for MDAS services**

*Type: discussion For: (not specified)  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S5-211448**.

**S5-211237 pCR 28.809 RAN node software upgrade Evaluation**

*Type: pCR For: Agreement  
 28.809 v1.1.0  
 Source: Samsung Electronics Benelux BV*

**Abstract:**

RAN node software upgrade Evaluation

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

**S5-211238 pCR 28.809 Paging Optimization Evaluation**

*Type: pCR For: Agreement  
 28.809 v1.1.0  
 Source: Samsung Electronics Benelux BV*

**Abstract:**

Paging Optimization Evaluation

**Decision:** The document was **revised to S5-211502**.

**S5-211239 pCR 28.809 Network slice traffic projections Evaluation**

*Type: pCR For: (not specified)  
 28.809 v1.1.0  
 Source: Samsung Electronics Benelux BV*

**Abstract:**

Network slice traffic projections Evaluation

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

**S5-211240 pCR 28.809 HO Optimization based on UE Load Evaluation**

*Type: pCR For: Agreement  
 28.809 v1.1.0  
 Source: Samsung Electronics Benelux BV*

**Abstract:**

HO Optimization based on UE Load Evaluation

**Decision:** The document was **revised to S5-211503**.

**S5-211256 Analysics Feedback Use case and Solution**

*Type: pCR For: (not specified)  
 28.809 v1.1.0  
 Source: Nokia Germany*

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

**S5-211285 Update definitions around MDA and ML training**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Ericsson LM*

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

**S5-211309 TD network slice coverage area mapping**

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

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

**S5-211317 Slice coverage optimization: Use case and solution enhancements**

*Type: pCR For: (not specified)  
 28.809 v1.1.0  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-211473**.

**S5-211447 pCR 28.809 Update solution on MDA assisted energy saving**

*Type: pCR For: (not specified)  
 28.809 v1.1.0  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-211054)

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

**S5-211448 Discussion paper on UPF load prediction for MDAS services**

*Type: discussion For: (not specified)  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-211158)

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

**S5-211449 pCR 28.809 Update the use case of traffice projection**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: HuaWei Technologies Co., Ltd,Samsung Electronics Benelux BV*

(Replaces S5-211134)

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

**S5-211473 Slice coverage optimization: Use case and solution enhancements**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Nokia Germany*

(Replaces S5-211317)

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

**S5-211483 pCR 28.809 Update diagram of MDA process**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy*

(Replaces S5-211098)

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

**S5-211484 pCR 28.809 Rapporture clean-up**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy, NEC*

(Replaces S5-211100)

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

**S5-211485 pCR 28.809 Add scope**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Intel Finland Oy, NEC*

(Replaces S5-211099)

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

**S5-211486 Draft TR 28.809**

*Type: draft TR For: Approval  
 28.809 v1.2.0  
 Source: Intel Finland Oy, HUAWEI*

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

**S5-211500 pCR 28.809 Update on MDA assisted energy saving**

*Type: pCR For: Approval  
 28.809 v1.1.0  
 Source: Huawei*

(Replaces S5-211146)

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

**S5-211502 pCR 28.809 Paging Optimization Evaluation**

*Type: pCR For: Agreement  
 28.809 v1.1.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-211238)

**Abstract:**

Paging Optimization Evaluation

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

**S5-211503 pCR 28.809 HO Optimization based on UE Load Evaluation**

*Type: pCR For: Agreement  
 28.809 v1.1.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-211240)

**Abstract:**

HO Optimization based on UE Load Evaluation

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

#### 6.5.5 Study on network slice management enhancement (revised to include security aspects)

**S5-211074 pCR 28.811 Add deployment of edge application service**

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

**Decision:** The document was **revised to S5-211434**.

**S5-211075 pCR 28.811 Add description of cross-operator management of network slice**

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

**Decision:** The document was **revised to S5-211435**.

**S5-211282 pCR 28.811 Update to end to end network slice concept**

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

**Decision:** The document was **revised to S5-211476**.

**S5-211283 pCR 28.811 Multi-operator concepts**

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

**Decision:** The document was **revised to S5-211477**.

**S5-211284 pCR 28.811 Service life cycle concept and scenarios**

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

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

**S5-211434 pCR 28.811 Add deployment of edge application service**

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

(Replaces S5-211074)

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

**S5-211435 pCR 28.811 Add description of cross-operator management of network slice**

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

(Replaces S5-211075)

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

**S5-211436 Draft TR 28.811**

*Type: draft TR For: Approval  
 28.811 v0.3.0  
 Source: Huawei Technologies Sweden AB*

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

**S5-211476 pCR 28.811 Update to end to end network slice concept**

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

(Replaces S5-211282)

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

**S5-211477 pCR 28.811 Multi-operator concepts**

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

(Replaces S5-211283)

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

#### 6.5.6 Study on YANG PUSH

#### 6.5.7 Study on access control for management service

**S5-211302 28.817 access control overview**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211450**.

**S5-211303 28.817 access control concept**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211451**.

**S5-211304 28.817 use case - MnS is accessed by a consumer in the same domain**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211305 28.817 use case - MnS is accessed by a consumer in the different domain of 3GPP system**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211306 28.817 use case - MnS is accessed by a digital portal of the operator**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211452**.

**S5-211307 28.817 use case - MnS is accessed by a external consumer of the 3GPP system**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211453**.

**S5-211325 28.817 use case - MnS is accessed by a consumer in the same domain**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211454**.

**S5-211326 28.817 use case - MnS is accessed by a consumer in the different domain of 3GPP system**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211455**.

**S5-211450 28.817 access control overview**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211302)

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

**S5-211451 28.817 access control concept**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211303)

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

**S5-211452 28.817 use case - MnS is accessed by a digital portal of the operator**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211306)

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

**S5-211453 28.817 use case - MnS is accessed by a external consumer of the 3GPP system**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211307)

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

**S5-211454 28.817 use case - MnS is accessed by a consumer in the same domain**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211325)

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

**S5-211455 28.817 use case - MnS is accessed by a consumer in the different domain of 3GPP system**

*Type: pCR For: Approval  
 28.817 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211326)

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

**S5-211475 Draft TR 28.817**

*Type: draft TR For: Approval  
 28.817 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

new draft

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

## 7 Charging

### 7.1 Charging Plenary

**S5-211008 CH agenda and time plan**

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

**Decision:** The document was **revised to S5-211364**.

**S5-211009 Charging exec report**

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

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

**S5-211015 Reply LS ccSA5 on support of stateless NFs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-205487*

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

**S5-211121 Discussion paper on use of DraftCRs for stage 3 Rel-17**

*Type: discussion For: Endorsement  
 Source: WG vice Chair (Nokia)*

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

**S5-211364 CH agenda and time plan**

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

(Replaces S5-211008)

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

### 7.2 New Charging Work Item proposals

**S5-211259 New SID on Nchf charging service phase 2**

*Type: SID new For: Agreement  
 Source: Ericsson LM*

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

### 7.3 Charging Maintenance and Rel-16 small Enhancements

**S5-211047 Rel-16 CR 32.260 Removal of IMS service based charging interface**

*Type: CR For: Approval  
 32.260 v16.2.0 CR-0409 Cat: F (Rel-16)  
  
 Source: Matrixx*

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

**S5-211123 DP on partial record closure**

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

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

**S5-211124 Rel-16 CR 32.254 Correction on applicable scenarios and flows**

*Type: CR For: Agreement  
 32.254 v16.3.0 CR-0013 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211125 Rel-16 CR 32.254 Correction on different identities**

*Type: CR For: Agreement  
 32.254 v16.3.0 CR-0014 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211380**.

**S5-211126 Rel-16 CR 32.254 Correction on Multiple Unit Usage**

*Type: CR For: Agreement  
 32.254 v16.3.0 CR-0015 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211429**.

**S5-211127 Rel-16 CR 32.254 Correction on binding description**

*Type: CR For: Agreement  
 32.254 v16.3.0 CR-0016 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211171 Rel-16 CR 32.255 correct steps in I\_SMF change**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0270 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211389**.

**S5-211172 Rel-17 CR 32.255 correct steps in I\_SMF change**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0271 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211391**.

**S5-211173 Rel-16 CR 32.240 Correct the definition of billing domain**

*Type: CR For: Agreement  
 32.240 v16.1.0 CR-0414 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211381**.

**S5-211174 Rel-17 CR 32.240 Correct the definition of billing domain**

*Type: CR For: Agreement  
 32.240 v17.0.0 CR-0415 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211386**.

**S5-211175 Rel-16 CR 32.255 Clarify the mechanism for triggers**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0272 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-211176 Rel-17 CR 32.255 Clarify the mechanism for triggers**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0273 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-211177 Rel-16 CR 32.240 Correct the charging architecture**

*Type: CR For: Agreement  
 32.240 v16.1.0 CR-0416 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211390**.

**S5-211178 Rel-17 CR 32.240 Correct the charging architecture**

*Type: CR For: Agreement  
 32.240 v17.0.0 CR-0417 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211393**.

**S5-211200 Rel-16 CR 32.255 Correction of V-SMF Change in Roaming HR - flows**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0279 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

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

**S5-211202 Rel-17 CR 32.255 Correction of V-SMF Change in Roaming HR - flows**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0280 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

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

**S5-211203 Rel-16 CR 32.255 Correction of PDU Session Information**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0281 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-211414**.

**S5-211204 Rel-17 CR 32.255 Correction of PDU Session Information**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0282 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-211419**.

**S5-211210 Rel-16 CR 32.290 Correction on coverged session based charging**

*Type: CR For: Approval  
 32.290 v16.6.0 CR-0145 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S5-211211 Rel-17 CR 32.290 Correction on coverged session based charging**

*Type: CR For: Approval  
 32.290 v17.0.0 CR-0146 Cat: A (Rel-17)  
  
 Source: CATT*

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

**S5-211214 Rel-16 CR 32.291 Missing eventLimit in trigger and OpenAPI**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0306 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-211420**.

**S5-211264 Rel-16 CR TS 32.298 Correction of SubscriptionID usage**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0855 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211405**.

**S5-211265 Rel-16 CR TS 32.298 Correcting backwards compatibility of AMFID**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0856 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211406**.

**S5-211266 Rel-16 CR TS 32.298 Correcting optional parameters for CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0857 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211407**.

**S5-211267 Rel-16 CR TS 32.298 Correcting missing value in CauseForRecClosing**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0858 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-211268 Rel-16 CR TS 32.298 Correcting diagnostic parameters for CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0859 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211408**.

**S5-211269 Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0860 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211409**.

**S5-211270 Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0861 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211410**.

**S5-211271 Rel-16 CR TS 32.255 Correcting missing handover cancel in table**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0283 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211411**.

**S5-211272 Rel-16 CR TS 32.255 Correcting missing ECGI and TAI in table**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0284 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-211273 Rel-16 CR TS 32.291 Correcting response code references**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0307 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-211274 Rel-16 CR TS 32.291 Correcting missing eventLimit**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0308 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-211275 Rel-16 CR TS 32.291 Correcting binding for iPv6dynamicPrefixFlag**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0309 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211413**.

**S5-211276 Rel-16 CR TS 32.291 Correcting NEF naming**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0310 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-211277 Rel-16 CR TS 32.291 Correcting ChargingNotifyResponse usage**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0311 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-211291 Rel-16 CR 32.290 Correction on missing NS charging NF Consumers**

*Type: CR For: Agreement  
 32.290 v16.6.0 CR-0148 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211382**.

**S5-211292 Rel-17 CR 32.290 Correction on missing NS charging NF Consumers**

*Type: CR For: Agreement  
 32.290 v17.0.0 CR-0149 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211384**.

**S5-211293 Rel-16 CR 32.290 Correction on Supported Features attribute**

*Type: CR For: Agreement  
 32.290 v16.6.0 CR-0150 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211294 Rel-17 CR 32.290 Correction on Supported Features attribute**

*Type: CR For: Agreement  
 32.290 v17.0.0 CR-0151 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211380 Rel-16 CR 32.254 Correction on different identities**

*Type: CR For: Agreement  
 32.254 v16.3.0 CR-0014 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211125)

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

**S5-211381 Rel-16 CR 32.240 Correct the definition of billing domain**

*Type: CR For: Agreement  
 32.240 v16.1.0 CR-0414 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-211173)

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

**S5-211382 Rel-16 CR 32.290 Correction on missing NS charging NF Consumers**

*Type: CR For: Agreement  
 32.290 v16.6.0 CR-0148 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211291)

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

**S5-211384 Rel-17 CR 32.290 Correction on missing NS charging NF Consumers**

*Type: CR For: Agreement  
 32.290 v17.0.0 CR-0149 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211292)

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

**S5-211386 Rel-17 CR 32.240 Correct the definition of billing domain**

*Type: CR For: Agreement  
 32.240 v17.0.0 CR-0415 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211174)

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

**S5-211389 Rel-16 CR 32.255 correct steps in V\_SMF change**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0270 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-211171)

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

**S5-211390 Rel-16 CR 32.240 Correct the charging architecture**

*Type: CR For: Agreement  
 32.240 v16.1.0 CR-0416 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-211177)

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

**S5-211391 Rel-17 CR 32.255 correct steps in I\_SMF change**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0271 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211172)

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

**S5-211393 Rel-17 CR 32.240 Correct the charging architecture**

*Type: CR For: Agreement  
 32.240 v17.0.0 CR-0417 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211178)

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

**S5-211405 Rel-16 CR TS 32.298 Correction of SubscriptionID usage**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0855 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211264)

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

**S5-211406 Rel-16 CR TS 32.298 Correcting backwards compatibility of AMFID**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0856 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211265)

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

**S5-211407 Rel-16 CR TS 32.298 Correcting optional parameters for CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0857 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211266)

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

**S5-211408 Rel-16 CR TS 32.298 Correcting diagnostic parameters for CHF CDR**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0859 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211268)

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

**S5-211409 Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0860 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211269)

**Decision:** The document was **revised to S5-211462**.

**S5-211410 Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0861 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211270)

**Decision:** The document was **revised to S5-211463**.

**S5-211411 Rel-16 CR TS 32.255 Correcting missing handover cancel in table**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0283 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211271)

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

**S5-211412 Rel-17 CR TS 32.255 Correcting missing handover cancel in table**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0285 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-211413 Rel-16 CR TS 32.291 Correcting binding for iPv6dynamicPrefixFlag**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0309 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211275)

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

**S5-211414 Rel-16 CR 32.255 Correction of PDU Session Information**

*Type: CR For: Agreement  
 32.255 v16.7.0 CR-0281 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-211203)

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

**S5-211419 Rel-17 CR 32.255 Correction of PDU Session Information**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0282 rev 1 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-211204)

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

**S5-211420 Rel-16 CR 32.291 Missing eventLimit in trigger and OpenAPI**

*Type: CR For: Agreement  
 32.291 v16.6.1 CR-0306 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-211214)

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

**S5-211429 Rel-16 CR 32.254 Correction on Multiple Unit Usage**

*Type: CR For: Agreement  
 32.254 v16.3.0 CR-0015 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211126)

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

**S5-211462 Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0860 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211409)

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

**S5-211463 Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo**

*Type: CR For: Agreement  
 32.298 v16.7.0 CR-0861 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

(Replaces S5-211410)

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

### 7.4 Rel-17 Charging

#### 7.4.1 IMS Charging in 5G System Architecture

**S5-211148 Rel-17 CR 32.291 Adding IMS Information in converged charging**

*Type: CR For: Approval  
 32.291 v16.6.1 CR-0305 Cat: B (Rel-17)  
  
 Source: China Mobile*

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

**S5-211150 Rel-17 CR 32.298 Adding IMS Information in converged charging**

*Type: CR For: Approval  
 32.298 v16.7.0 CR-0854 Cat: B (Rel-17)  
  
 Source: China Mobile*

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

**S5-211162 Rel-17 CR 32.260 add IMS offline only charging information**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0410 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211372**.

**S5-211260 Rel-17 CR TS 32.260 Moving offline only to offline clause**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0411 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211401**.

**S5-211261 Rel-17 CR TS 32.260 Update of converged charging trigger tables using IMS node**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0412 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211403**.

**S5-211262 Rel-17 CR TS 32.260 Addition of converged charging IMS information**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0413 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-211263 Rel-17 CR TS 32.281 Addition of multiple unit information content**

*Type: CR For: Agreement  
 32.281 v16.1.0 CR-0009 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211404**.

**S5-211295 Rel-17 CR 32.260 Introduction of CHF framework in the scope**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0414 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211296 Rel-17 CR 32.260 Clarify Charging service selection**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0415 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211297 Rel-17 CR 32.275 Introduction of CHF framework in the scope**

*Type: CR For: Agreement  
 32.275 v17.0.0 CR-0078 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-211298 Rel-17 CR 32.275 Introduce Post Event Charging (PEC)**

*Type: CR For: Agreement  
 32.275 v17.0.0 CR-0079 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211375**.

**S5-211365 DraftCR 5GSIMSCH TS 32.291 IMS Information in converged charging**

*Type: draftCR For: Approval  
 32.291 v16.6.1  
 Source: China Mobile*

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

**S5-211366 DraftCR 5GSIMSCH TS 32.298 IMS Information in converged charging**

*Type: draftCR For: Approval  
 32.298 v16.7.0  
 Source: China Mobile*

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

**S5-211372 Rel-17 CR 32.260 add IMS offline only charging information**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0410 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211162)

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

**S5-211375 Rel-17 CR 32.275 Introduce Post Event Charging (PEC)**

*Type: CR For: Agreement  
 32.275 v17.0.0 CR-0079 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211298)

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

**S5-211401 Rel-17 CR TS 32.260 Moving offline only to offline clause**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0411 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211260)

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

**S5-211403 Rel-17 CR TS 32.260 Update of converged charging trigger tables using IMS node**

*Type: CR For: Agreement  
 32.260 v17.0.0 CR-0412 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211261)

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

**S5-211404 Rel-17 CR TS 32.281 Addition of multiple unit information content**

*Type: CR For: Agreement  
 32.281 v16.1.0 CR-0009 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-211263)

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

#### 7.4.2 Charging enhancement for URLLC

**S5-211179 Rel-17 CR 32.255 Add the PDU Modification and Release Message Flow**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0274 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211368**.

**S5-211180 Rel-17 CR 32.255 Add PDU Modification and Release Message Flow for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0275 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211369**.

**S5-211181 Rel-17 CR 32.255 Add the Quota Management for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0276 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211370**.

**S5-211182 Rel-17 CR 32.255 Add the Usage Reporting for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0277 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211371**.

**S5-211183 Rel-17 CR 32.255 Add Charging Information for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0278 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-211374**.

**S5-211368 Rel-17 CR 32.255 Add the PDU Modification and Release Message Flow**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0274 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211179)

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

**S5-211369 Rel-17 CR 32.255 Add PDU Modification and Release Message Flow for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0275 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211180)

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

**S5-211370 Rel-17 CR 32.255 Add the Quota Management for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0276 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211181)

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

**S5-211371 Rel-17 CR 32.255 Add the Usage Reporting for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0277 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211182)

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

**S5-211374 Rel-17 CR 32.255 Add Charging Information for URLLC Charging**

*Type: CR For: Agreement  
 32.255 v17.0.0 CR-0278 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-211183)

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

#### 7.4.3 N40 Interface Enhancements to Support GERAN and UTRAN

**S5-211290 Rel-17 CR 32.290 Add the TS reference for PGW**

*Type: CR For: Agreement  
 32.290 v17.0.0 CR-0147 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211379**.

**S5-211379 Rel-17 CR 32.290 Add the TS reference for PGW**

*Type: CR For: Agreement  
 32.290 v17.0.0 CR-0147 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211290)

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

### 7.5 Charging studies

#### 7.5.1 Study on charging aspects of Edge Computing

**S5-211095 pCR 28.815 Update UC and requirements on 5GS charging for edge computing**

*Type: pCR For: Approval  
 28.815 v0.3.0  
 Source: Intel Finland Oy*

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

**S5-211096 pCR 28.815 Add possible solutions on inter-provider charging for 5GS**

*Type: pCR For: Approval  
 28.815 v0.3.0  
 Source: Intel Finland Oy*

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

**S5-211097 pCR 28.815 Add possible solutions on charging for edge enabling infrastructure resources and services**

*Type: pCR For: Approval  
 28.815 v0.3.0  
 Source: Intel Finland Oy*

**Decision:** The document was **revised to S5-211425**.

**S5-211170 pCR 28.815 update charging scenarios and key issues on charging for edge enabling services**

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

**Decision:** The document was **revised to S5-211402**.

**S5-211278 Rel-17 pCR TR 28.815 Requirements for 5GS usage based charging**

*Type: pCR For: Approval  
 28.815 v0.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-211415**.

**S5-211402 pCR 28.815 update charging scenarios and key issues on charging for edge enabling services**

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

(Replaces S5-211170)

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

**S5-211415 Rel-17 pCR TR 28.815 Requirements for 5GS usage based charging**

*Type: pCR For: Approval  
 28.815 v0.3.0  
 Source: Ericsson LM*

(Replaces S5-211278)

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

**S5-211425 pCR 28.815 Add possible solutions on charging for edge enabling infrastructure resources and services**

*Type: pCR For: Approval  
 28.815 v0.3.0  
 Source: Intel Finland Oy*

(Replaces S5-211097)

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

**S5-211426 Draft TR 28.815**

*Type: draft TR For: Approval  
 28.815 v0.4.0  
 Source: Intel Finland Oy*

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

#### 7.5.2 Study on charging aspects of 5GS CIoT

**S5-211163 pCR 28.816 add use case of NIDD for control plane data transfer charging**

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

**Decision:** The document was **revised to S5-211378**.

**S5-211164 pCR 28.816 add use case of support for monitoring events charging**

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

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

**S5-211165 pCR 28.816 add use case rate control of user data in 5G data connectivity charging**

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

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

**S5-211166 pCR 28.816 add use case rate control of user data in control plane data transfer charging**

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

**Decision:** The document was **revised to S5-211388**.

**S5-211167 pCR 28.816 add use case for EPS interworking**

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

**Decision:** The document was **revised to S5-211392**.

**S5-211168 pCR 28.816 add abbreviations**

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

**Decision:** The document was **revised to S5-211394**.

**S5-211169 pCR 28.816 add mapping of use cases in charging aspects**

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

**Decision:** The document was **revised to S5-211399**.

**S5-211378 pCR 28.816 add use case of NIDD for control plane data transfer charging**

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

(Replaces S5-211163)

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

**S5-211388 pCR 28.816 add use case rate control of user data in control plane data transfer charging**

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

(Replaces S5-211166)

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

**S5-211392 pCR 28.816 add use case for EPS interworking**

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

(Replaces S5-211167)

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

**S5-211394 pCR 28.816 add abbreviations**

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

(Replaces S5-211168)

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

**S5-211399 pCR 28.816 add mapping of use cases in charging aspects**

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

(Replaces S5-211169)

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

**S5-211424 DraftTR 28.816**

*Type: draft TR For: Approval  
 28.816 v0.3.0  
 Source: Huawei Tech.(UK) Co.. Ltd*

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

#### 7.5.3 Study on charging aspects of Proximity-based Services in 5GC

**S5-211207 pCR 32.846 Add usecase for ProSe Direct Discovery**

*Type: pCR For: Approval  
 32.846 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-211373**.

**S5-211208 pCR 32.846 Add requirment for ProSe Direct Discovery**

*Type: pCR For: Approval  
 32.846 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-211376**.

**S5-211209 pCR 32.846 Add possible solution for ProSe Direct Discovery**

*Type: pCR For: Approval  
 32.846 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-211377**.

**S5-211233 Discussion paper on PC5 usage information reporting**

*Type: discussion For: Endorsement  
 Source: CATT*

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

**S5-211236 LS reply on LS on 5G ProSe charging updates**

*Type: LS out For: (not specified)  
 to SA2  
 Source: CATT*

**Abstract:**

This LS can be approved only if S5-211233 is approved. The content of this LS may have to be adjusted if S5-211233 is revised.

**Decision:** The document was **revised to S5-211423**.

**S5-211279 Rel-17 pCR TR 32.846 Separating the topic for ProSe direct discovery and communication**

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

**Decision:** The document was **revised to S5-211417**.

**S5-211280 Rel-17 pCR TR 32.846 Solution for ProSe direct discovery**

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

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

**S5-211373 pCR 32.846 Add usecase for ProSe Direct Discovery**

*Type: pCR For: Approval  
 32.846 v0.2.0  
 Source: CATT*

(Replaces S5-211207)

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

**S5-211376 pCR 32.846 Add requirment for ProSe Direct Discovery**

*Type: pCR For: Approval  
 32.846 v0.2.0  
 Source: CATT*

(Replaces S5-211208)

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

**S5-211377 pCR 32.846 Add possible solution for ProSe Direct Discovery**

*Type: pCR For: Approval  
 32.846 v0.2.0  
 Source: CATT*

(Replaces S5-211209)

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

**S5-211383 Draft 32.846**

*Type: draft TR For: (not specified)  
 32.846 v0.3.0  
 Source: CATT*

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

**S5-211417 Rel-17 pCR TR 32.846 Separating the topic for ProSe direct discovery and communication**

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

(Replaces S5-211279)

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

**S5-211423 LS reply on LS on 5G ProSe charging updates**

*Type: LS out For: (not specified)  
 to SA2  
 Source: CATT*

(Replaces S5-211236)

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

#### 7.5.4 Study on Charging Aspect of 5G LAN-type Services

**S5-211184 Rel-17 pCR 28.822 Update of the skeleton**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

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

**S5-211185 Rel-17 pCR 28.822 Update of the Scope**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-211395**.

**S5-211186 Rel-17 pCR 28.822 Update of the Reference**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-211396**.

**S5-211187 Rel-17 pCR 28.822 Update of the Definition**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

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

**S5-211188 Rel-17 pCR 28.822 Introduce the background**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-211397**.

**S5-211189 Rel-17 pCR 28.822 5G VN group management for 5G LAN-type service**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-211400**.

**S5-211253 TR 28.822 0.0.0 skeleton**

*Type: draft TR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-211340**.

**S5-211340 28822-001**

*Type: draft TR For: Agreement  
 28.822 v0.0.1  
 Source: Huawei*

(Replaces S5-211253)

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

**S5-211395 Rel-17 pCR 28.822 Update of the Scope**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

(Replaces S5-211185)

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

**S5-211396 Rel-17 pCR 28.822 Update of the Reference**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

(Replaces S5-211186)

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

**S5-211397 Rel-17 pCR 28.822 Introduce the background**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

(Replaces S5-211188)

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

**S5-211398 Rel-17 pCR 28.822 Introduce the background**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

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

**S5-211400 Rel-17 pCR 28.822 5G VN group management for 5G LAN-type service**

*Type: pCR For: Agreement  
 28.822 v0.0.0  
 Source: Huawei*

(Replaces S5-211189)

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

**S5-211428 28.822-010**

*Type: draft TR For: Approval  
 28.822 v0.1.0  
 Source: Huawei*

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

#### 7.5.5 Study on charging aspects for enhancements of Network Slicing Phase 2

**S5-211042 Rel-17 TR 32.847 skeleton**

*Type: draft TR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

**Decision:** The document was **revised to S5-211416**.

**S5-211043 Rel-17 pCR TR 32.847 - add scope**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

**Decision:** The document was **revised to S5-211418**.

**S5-211044 Rel-17 pCR TR 32.847 - add new subclause on background**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

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

**S5-211045 Rel-17 pCR TR 32.847 - add new subclause on key Issues**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

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

**S5-211046 Rel-17 pCR TR 32.847 - Introduction of key Issue #1 & #2**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

**Decision:** The document was **revised to S5-211421**.

**S5-211076 Rel-17 pCR TR 32.847 - add new solution for Key Issue #1 based on new charging service**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

**Decision:** The document was **rejected**.

**S5-211107 Rel-17 pCR 32.847 Introduction of background on NS charging information**

*Type: pCR For: Approval  
 32.847 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211385**.

**S5-211108 Rel-17 pCR 28.847 Introduction of potential requirements**

*Type: pCR For: Approval  
 32.847 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-211387**.

**S5-211109 Rel-17 pCR 28.847 Introduction of NS converged charging solution for KI#1**

*Type: pCR For: Approval  
 32.847 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **rejected**.

**S5-211385 Rel-17 pCR 32.847 Introduction of background on NS charging information**

*Type: pCR For: Approval  
 32.847 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211107)

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

**S5-211387 Rel-17 pCR 32.847 Introduction of potential requirements**

*Type: pCR For: Approval  
 32.847 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-211108)

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

**S5-211416 Rel-17 TR 32.847 skeleton**

*Type: draft TR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

(Replaces S5-211042)

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

**S5-211418 Rel-17 pCR TR 32.847 - add scope**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

(Replaces S5-211043)

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

**S5-211421 Rel-17 pCR TR 32.847 - Introduction of key Issue #1 & #2**

*Type: pCR For: Agreement  
 32.847 v0.0.0  
 Source: Matrixx*

(Replaces S5-211046)

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

**S5-211427 Draft TR 32.847**

*Type: draft TR For: Agreement  
 32.847 v0.1.0  
 Source: Matrixx*

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

## 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 |
| S5-211000 | Agenda | WG Chair | approved |  |  |
| S5-211001 | Report from last SA5 meeting | MCC | approved |  |  |
| S5-211002 | e-meeting process | WG Chair | revised |  | S5-211524 |
| S5-211003 | Post e-meeting email approval status | WG Chair | noted |  |  |
| S5-211004 | OAM&P action list | WG Vice Chair | noted |  | - |
| S5-211005 | agenda\_with\_Tdocs\_sequence\_proposal\_OAM | WG Vice Chair | noted |  |  |
| S5-211006 | OAM Exec Report | WG Vice Chair | reserved |  |  |
| S5-211007 | OAM Chair notes and conclusions | WG Chair | available |  |  |
| S5-211008 | CH agenda and time plan | WG vice Chair (Nokia) | revised |  | S5-211364 |
| S5-211009 | Charging exec report | WG vice Chair (Nokia) | noted |  |  |
| S5-211010 | SA5 working procedures | WG Chair | revised |  | S5-211525 |
| S5-211011 | Process for management of draft TS-TRs | WG Chair | noted |  |  |
| S5-211012 | List of DraftCR input and output | WG Chair | withdrawn |  |  |
| S5-211013 | SA5 meeting calendar | WG CHair | revised |  | S5-211526 |
| S5-211014 | LS to SA5 on NGMN 5G End-to-End Architecture Framework (Phase-3) | NGMN | noted |  |  |
| S5-211015 | Reply LS ccSA5 on support of stateless NFs | C4-205487 | noted |  |  |
| S5-211016 | LS reply to 3GPP SA5 on the relation between EDGEAPP and ETSI MEC architectures | ETSI ISG MEC | postponed |  |  |
| S5-211017 | New Whitepaper: “Operator Platform Telco Edge proposal" | GSMA | postponed |  |  |
| S5-211018 | Reply LS to SA5 on the user consent for trace reporting | R2-2010894 | noted |  |  |
| S5-211019 | LS cc SA5 on NR QoE progress in RAN3 | R3-207120 | noted |  |  |
| S5-211020 | Reply LS to SA5 on QoS Monitoring for URLLC | R3-207177 | replied to |  |  |
| S5-211021 | Response LS to SA5 on Enhancement of RAN Slicing | R3-207236 | replied to |  |  |
| S5-211022 | LS to SA5 on controlling the number of UEs and PDU Sessions in a Network Slice | S2-2009214 | replied to |  |  |
| S5-211023 | Reply LS to SA5 on network data analysis energy saving | S2-2009349 | replied to |  |  |
| S5-211024 | LS to SA5 on OAM that supports RAT/frequency data | S2-2009379 | replied to |  |  |
| S5-211025 | LS Response to SA5 on providing cell energySaving state information to NWDAF | S2-2009386 | noted |  |  |
| S5-211026 | LS Reply ccSA5 on New service type of NR QoE | S4-201576 | noted |  |  |
| S5-211027 | LS reply to SA5 on QoE Measurement Collection | S4-201600 | noted |  |  |
| S5-211028 | LS to SA5 on Relation between 3GPP EDGEAPP and ETSI MEC architectures | S6-202355 | postponed |  |  |
| S5-211029 | LS to SA5 on Use of Inclusive Language in 3GPP | SP-201143 | noted |  |  |
| S5-211030 | LS on O-RAN – 3GPP Cooperation on Management Services | O-RAN | postponed |  |  |
| S5-211031 | Reply LS on network data analysis energy saving | Orange | revised |  | S5-211478 |
| S5-211032 | pCR TR 28.813 Remove Introduction and add Scope | Orange | approved |  |  |
| S5-211033 | pCR TR 28.813 Update clause 4.4 to align with already approved CR | Orange | revised |  | S5-211439 |
| S5-211034 | pCR TR 28.813 New Key Issue: TR 21.866 EE control framework | Orange, AT&T, Deutsche Telekom | approved |  |  |
| S5-211035 | Rel-17 CR TS 28.310 Add introductory text to EE KPIs for network slices | Orange, AT&T, Deutsche Telekom | revised |  | S5-211441 |
| S5-211036 | Discussion on issues found in TS 28.531 and TS 28.541 | Orange | noted |  |  |
| S5-211037 | pCR TR 28.813 Potential solutions for KI#5 (5GC NF Energy Consumption) | Orange, AT&T, Deutsche Telekom, Huawei | noted |  |  |
| S5-211038 | Rel-16 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction | Ericsson, Orange | not pursued |  |  |
| S5-211039 | Rel-17 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction | Ericsson, Orange | not pursued |  |  |
| S5-211040 | pCR TR 28.813 New Key Issue: 5GC Energy Consumption | Orange, AT&T, Huawei | approved |  |  |
| S5-211041 | Rel-16 CR TS 28.310 Introducing the ES probing procedure | KPN N.V. | revised |  | S5-211480 |
| S5-211042 | Rel-17 TR 32.847 skeleton | Matrixx | revised |  | S5-211416 |
| S5-211043 | Rel-17 pCR TR 32.847 - add scope | Matrixx | revised |  | S5-211418 |
| S5-211044 | Rel-17 pCR TR 32.847 - add new subclause on background | Matrixx | approved |  |  |
| S5-211045 | Rel-17 pCR TR 32.847 - add new subclause on key Issues | Matrixx | approved |  |  |
| S5-211046 | Rel-17 pCR TR 32.847 - Introduction of key Issue #1 & #2 | Matrixx | revised |  | S5-211421 |
| S5-211047 | Rel-16 CR 32.260 Removal of IMS service based charging interface | Matrixx | agreed |  |  |
| S5-211048 | Rel-16 CR TS 28.531 Correction of URI of Resource | China Mobile Com. Corporation | agreed |  |  |
| S5-211049 | Rel-17 CR TS 28.552 Addition of SMS message delivery related measurements for SMSF | China Mobile Com. Corporation | agreed |  |  |
| S5-211050 | Rel-17 CR TS 28.552 Addition of Registration measurements for SMSF | China Mobile Com. Corporation | agreed |  |  |
| S5-211051 | Discussion on user consent for RLF and CEF report | Apple, Intel, Qualcomm Incorporated | noted |  |  |
| S5-211052 | Rel-17 CR TS 28.552 Add PLMN granularity for number of active UEs measurements | China Telecommunications | revised |  | S5-211489 |
| S5-211053 | Rel-17 CR TS 28.552 Add PLMN granularity for packet delay measurements | China Telecommunications | revised |  | S5-211490 |
| S5-211054 | pCR 28.809 Update solution on MDA assisted energy saving | China Telecom Corporation Ltd. | revised |  | S5-211447 |
| S5-211055 | Rel-16 CR TS 28.541 Missing attribute in YANG definitions | Orange | withdrawn |  |  |
| S5-211056 | Reply LS on OAM that supports RAT/frequency data | China Telecomunication Corp. | revised |  | S5-211521 |
| S5-211057 | Rel-16 CR 28.536 Remove conflicting attribute definitions | Huawei | agreed |  |  |
| S5-211058 | Rel-16 CR 28.533 Fix errors in Exposure Governance description | Huawei | revised |  | S5-211432 |
| S5-211059 | Rel-15 CR 28.533 Fix errors in Exposure Governance description | Huawei | revised |  | S5-211433 |
| S5-211060 | Rel-16 CR 28.536 Clarify modelling of AssuranceGoal | Huawei | agreed |  |  |
| S5-211061 | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM | Huawei | revised |  | S5-211529 |
| S5-211062 | Rel-16 CR TS 32.422 Clarify failure happened in signalling activation | Huawei | not pursued |  |  |
| S5-211063 | Rel-17 CR TS 32.422 Clarify failure happened in signalling activation | Huawei | not pursued |  |  |
| S5-211064 | Rel-16 CR TS 32.422 Correct tracing roaming subscribers case | Huawei | agreed |  |  |
| S5-211065 | Rel-17 CR TS 32.422 Correct tracing roaming subscribers case | Huawei | agreed |  |  |
| S5-211066 | Rel-17 Input to draftCR 28.541 update CN sliceProfile | Huawei | merged |  | S5-211446 |
| S5-211067 | Rel-17 CR 28.530 Add DMS use cases and requirements | Huawei | not pursued |  |  |
| S5-211068 | Rel-17 CR 28.533 Remove DMS use case and requirements | Huawei | not pursued |  |  |
| S5-211069 | Updated baseline for DraftCR for 5GDMS - TS 28.533 | Huawei | approved |  |  |
| S5-211070 | pCR 28.814 Add UC for using MEC to deploy EAS | Huawei | noted |  |  |
| S5-211071 | pCR 28.814 solution for ECS deployment | Huawei | revised |  | S5-211508 |
| S5-211072 | pCR 28.809 Update alarm malfunction analytics | Huawei | approved |  |  |
| S5-211073 | pCR 28.809 Alignment of internal references | Huawei | approved |  |  |
| S5-211074 | pCR 28.811 Add deployment of edge application service | Huawei | revised |  | S5-211434 |
| S5-211075 | pCR 28.811 Add description of cross-operator management of network slice | Huawei | revised |  | S5-211435 |
| S5-211076 | Rel-17 pCR TR 32.847 - add new solution for Key Issue #1 based on new charging service | Matrixx | rejected |  |  |
| S5-211077 | Add new clause for URI | Ericsson LM | revised |  | S5-211466 |
| S5-211078 | Rel-17 CR TS 32.160 Update on template for requirement specifications | Huawei | not pursued |  |  |
| S5-211079 | Correct trace record information for immediate MDT measurement | Ericsson LM | revised |  | S5-211467 |
| S5-211080 | New pattern of mapping classes and containment in YANG | Ericsson Hungary Ltd | endorsed |  |  |
| S5-211081 | Rel-17 time plan proposal for OAM | SA5 Vice chair (Huawei) | noted | S5-203021 |  |
| S5-211082 | Add new requirement for GPB trace format | Ericsson LM | revised |  | S5-211468 |
| S5-211083 | Add new clause for URI | Ericsson LM | revised |  | S5-211469 |
| S5-211084 | YANG containment mapping | Ericsson Hungary Ltd | not pursued |  |  |
| S5-211085 | SOD on MDAS use cases | Huawei Technologies (Korea) | noted |  |  |
| S5-211086 | Add new parameters for trace record header | Ericsson LM | revised |  | S5-211470 |
| S5-211087 | Correct trace record information for immediate MDT measurement | Ericsson LM | revised |  | S5-211471 |
| S5-211088 | Collection of useful endorsed document and external communication documents | Huawei Technologies (Korea) | noted | S5-206071 |  |
| S5-211089 | List of Approved DraftCR | SA5 Vice chair (Huawei) | revised |  | S5-211461 |
| S5-211090 | Rel-16 CR 28.531 Correction of NSI and NSSI Operations | Ericsson LM | revised |  | S5-211528 |
| S5-211091 | Rel-16 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | revised |  | S5-211362 |
| S5-211092 | Rel-17 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | revised |  | S5-211363 |
| S5-211093 | Rel-17 TS 28.554 How to update the accessibility KPI to cover RRC Resume | Ericsson LM | endorsed |  |  |
| S5-211094 | Reply LS on Enhancement of RAN Slicing | Ericsson LM | revised |  | S5-211512 |
| S5-211095 | pCR 28.815 Update UC and requirements on 5GS charging for edge computing | Intel Finland Oy | merged |  | S5-211415 |
| S5-211096 | pCR 28.815 Add possible solutions on inter-provider charging for 5GS | Intel Finland Oy | merged |  | S5-211415 |
| S5-211097 | pCR 28.815 Add possible solutions on charging for edge enabling infrastructure resources and services | Intel Finland Oy | revised |  | S5-211425 |
| S5-211098 | pCR 28.809 Update diagram of MDA process | Intel Finland Oy | revised |  | S5-211483 |
| S5-211099 | pCR 28.809 Add scope | Intel Finland Oy, NEC | revised |  | S5-211485 |
| S5-211100 | pCR 28.809 Rapporture clean-up | Intel Finland Oy, NEC | revised |  | S5-211484 |
| S5-211101 | pCR 28.809 Add general conclusions and recommendations | Intel Finland Oy, HUAWEI | noted |  |  |
| S5-211102 | Input to draft CR Rel-17 28.552 Add measurements on SMF-NEF connection establishment | Intel Finland Oy | approved |  |  |
| S5-211103 | Input to draft CR Rel-17 28.552 Add measurements on service specific parameter provisioning | Intel Finland Oy | approved |  |  |
| S5-211104 | Input to draft CR Rel-17 28.552 Add measurements on policy negotiation for future background data transfer | Intel Finland Oy | approved |  |  |
| S5-211105 | New WID Enhancements of Management Data Analytics Service | Intel Finland Oy, NEC | noted |  |  |
| S5-211106 | pCR 28.557 Add CAG management | TELEFONICA S.A. | revised |  | S5-211479 |
| S5-211107 | Rel-17 pCR 32.847 Introduction of background on NS charging information | Nokia, Nokia Shanghai Bell | revised |  | S5-211385 |
| S5-211108 | Rel-17 pCR 28.847 Introduction of potential requirements | Nokia, Nokia Shanghai Bell | revised |  | S5-211387 |
| S5-211109 | Rel-17 pCR 28.847 Introduction of NS converged charging solution for KI#1 | Nokia, Nokia Shanghai Bell | rejected |  |  |
| S5-211110 | Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | revised |  | S5-211481 |
| S5-211111 | pCR 28.814 add editorial changes to restructure EAS deployment solution | Intel Deutschland GmbH | revised |  | S5-211519 |
| S5-211112 | Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | revised |  | S5-211482 |
| S5-211113 | pCR 28.814 EAS performance assurance use case | Intel Deutschland GmbH | approved |  | - |
| S5-211114 | pCR 28.814 EAS performance assurance solution | Intel Deutschland GmbH | revised |  | S5-211514 |
| S5-211115 | pCR 28.814 add solutions for EES deployment | Intel Deutschland GmbH | revised |  | S5-211515 |
| S5-211116 | pCR 28.814 add solutions for ECS deployment | Intel Deutschland GmbH | revised |  | S5-211516 |
| S5-211117 | pCR 28.814 UC of UPF selection to support EAS deployment | Intel Deutschland GmbH | noted |  |  |
| S5-211118 | pCR 28.814 UC of access to 5GC functions | Intel Deutschland GmbH | approved |  | - |
| S5-211119 | pCR 28.814 add solutions for UPF selection to assist EAS deployment | Intel Deutschland GmbH | noted |  |  |
| S5-211120 | pCR 28.814 add solutions for connection Information to enable access to 5GC functions | Intel Deutschland GmbH | revised |  | S5-211518 |
| S5-211121 | Discussion paper on use of DraftCRs for stage 3 Rel-17 | WG vice Chair (Nokia) | noted |  |  |
| S5-211122 | LS reply to LS on controlling the number of UEs and PDU Sessions in a Network Slice | Nokia, Nokia Shanghai Bell | revised |  | S5-211464 |
| S5-211123 | DP on partial record closure | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-211124 | Rel-16 CR 32.254 Correction on applicable scenarios and flows | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211125 | Rel-16 CR 32.254 Correction on different identities | Nokia, Nokia Shanghai Bell | revised |  | S5-211380 |
| S5-211126 | Rel-16 CR 32.254 Correction on Multiple Unit Usage | Nokia, Nokia Shanghai Bell | revised |  | S5-211429 |
| S5-211127 | Rel-16 CR 32.254 Correction on binding description | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211128 | Add LBO use cases, requirements, and related information | Intel Deutschland GmbH | revised |  | S5-211431 |
| S5-211129 | Add PCI related measurement | Intel Deutschland GmbH | not pursued |  |  |
| S5-211130 | Add PCI related measurement | Intel Deutschland GmbH | not pursued |  |  |
| S5-211131 | Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | revised |  | S5-211491 |
| S5-211132 | Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | revised |  | S5-211492 |
| S5-211133 | Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | revised |  | S5-211493 |
| S5-211134 | pCR 28.809 Update the use case of traffice projection | HuaWei Technologies Co., Ltd | revised |  | S5-211449 |
| S5-211135 | pCR 28.809 Update the analytics report for alarm incident analysis | HuaWei Technologies Co., Ltd | approved |  |  |
| S5-211136 | pCR 28.813 Update on EE KPI for URLLC type of network slice | Huawei, China Telecom | noted |  |  |
| S5-211137 | pCR 28.557 Management modes of NPN | Huawei | revised |  | S5-211494 |
| S5-211138 | pCR 28.557 Roles related to 5G PLMN management and NPN management | Huawei | revised |  | S5-211495 |
| S5-211139 | pCR 28.557 Update on NID for SNPN management | Huawei | revised |  | S5-211496 |
| S5-211140 | pCR 28.557 Update on use case of SNPN | Huawei | revised |  | S5-211497 |
| S5-211141 | pCR 28.557 Collecting UE related data and providing to authorized NPN service customer | Huawei | revised |  | S5-211498 |
| S5-211142 | pCR 28.557 Add generic requirements for management of NPN | Huawei | revised |  | S5-211499 |
| S5-211143 | Rel-17 CR 28.541 Add positioning support in ServiceProfile | Huawei, China Mobile | not pursued |  |  |
| S5-211144 | Rel-17 CR 28.541 Add synchronicity support in ServiceProfile | Huawei, China Mobile | not pursued |  |  |
| S5-211145 | Living document of review of GSMA GST SA5#135e | Huawei, China Mobile | endorsed |  |  |
| S5-211146 | pCR 28.809 Update on MDA assisted energy saving | Huawei | revised |  | S5-211500 |
| S5-211147 | DP on MnS types for closed control loop | Huawei Technologies Japan K.K. | revised |  | S5-211523 |
| S5-211148 | Rel-17 CR 32.291 Adding IMS Information in converged charging | China Mobile | not pursued |  |  |
| S5-211149 | Rel-17 CR TS 28.535 MnS types for closed control loop | Huawei Technologies Japan K.K. | not pursued |  |  |
| S5-211150 | Rel-17 CR 32.298 Adding IMS Information in converged charging | China Mobile | not pursued |  |  |
| S5-211151 | Rel-17 CR TS 28.536 Add assurance policy for closed control loop | Huawei Technologies Japan K.K. | not pursued |  |  |
| S5-211152 | Rel-17 CR TS 28.536 Add assurance report for closed control loop | Huawei Technologies Japan K.K. | not pursued |  |  |
| S5-211153 | pCR 28.809 Update solution on MDA assisted energy saving to provide necessary information in output | China Telecom Corporation Ltd. | approved |  |  |
| S5-211154 | Discussion Paper on providing cell energySaving Status information to NWDAF via Generic Provisioning Services | China Telecom Corporation Ltd. | revised |  | S5-211437 |
| S5-211155 | LS on providing cell energySaving Status information to NWDAF | China Telecom Corporation Ltd. | revised |  | S5-211438 |
| S5-211156 | Rel-17 CR TS 32.130 Update the scope and background of network sharing scenarios | China Telecommunications, China Unicom, Huawei | revised |  | S5-211465 |
| S5-211157 | Rel-17 CR 28.554 Add Resource Consumption KPI for NF and 5GC | China Telecom Corporation Ltd. | not pursued |  |  |
| S5-211158 | Discussion paper on UPF load prediction for MDAS services | China Telecom Corporation Ltd. | revised |  | S5-211448 |
| S5-211159 | Rel-17 Input to draftCR 28.541 Add new attributes in CNSliceSubnetProfile and RANSliceSubnetProfile | China Mobile Com. Corporation | revised |  | S5-211446 |
| S5-211160 | Rel-17 Input to draftCR 28.541 Define performance requirements in different domains and update the related slice profile | China Mobile Com. Corporation | noted |  |  |
| S5-211161 | Rel-17 CR TS 28.535 Configure policies of control loop | Huawei Technologies France | not pursued |  |  |
| S5-211162 | Rel-17 CR 32.260 add IMS offline only charging information | Huawei | revised |  | S5-211372 |
| S5-211163 | pCR 28.816 add use case of NIDD for control plane data transfer charging | Huawei | revised |  | S5-211378 |
| S5-211164 | pCR 28.816 add use case of support for monitoring events charging | Huawei | noted |  |  |
| S5-211165 | pCR 28.816 add use case rate control of user data in 5G data connectivity charging | Huawei | noted |  |  |
| S5-211166 | pCR 28.816 add use case rate control of user data in control plane data transfer charging | Huawei | revised |  | S5-211388 |
| S5-211167 | pCR 28.816 add use case for EPS interworking | Huawei | revised |  | S5-211392 |
| S5-211168 | pCR 28.816 add abbreviations | Huawei | revised |  | S5-211394 |
| S5-211169 | pCR 28.816 add mapping of use cases in charging aspects | Huawei | revised |  | S5-211399 |
| S5-211170 | pCR 28.815 update charging scenarios and key issues on charging for edge enabling services | Huawei | revised |  | S5-211402 |
| S5-211171 | Rel-16 CR 32.255 correct steps in I\_SMF change | Huawei | revised |  | S5-211389 |
| S5-211172 | Rel-17 CR 32.255 correct steps in I\_SMF change | Huawei | revised |  | S5-211391 |
| S5-211173 | Rel-16 CR 32.240 Correct the definition of billing domain | Huawei | revised |  | S5-211381 |
| S5-211174 | Rel-17 CR 32.240 Correct the definition of billing domain | Huawei | revised |  | S5-211386 |
| S5-211175 | Rel-16 CR 32.255 Clarify the mechanism for triggers | Huawei | not pursued |  |  |
| S5-211176 | Rel-17 CR 32.255 Clarify the mechanism for triggers | Huawei | not pursued |  |  |
| S5-211177 | Rel-16 CR 32.240 Correct the charging architecture | Huawei | revised |  | S5-211390 |
| S5-211178 | Rel-17 CR 32.240 Correct the charging architecture | Huawei | revised |  | S5-211393 |
| S5-211179 | Rel-17 CR 32.255 Add the PDU Modification and Release Message Flow | Huawei | revised |  | S5-211368 |
| S5-211180 | Rel-17 CR 32.255 Add PDU Modification and Release Message Flow for URLLC Charging | Huawei | revised |  | S5-211369 |
| S5-211181 | Rel-17 CR 32.255 Add the Quota Management for URLLC Charging | Huawei | revised |  | S5-211370 |
| S5-211182 | Rel-17 CR 32.255 Add the Usage Reporting for URLLC Charging | Huawei | revised |  | S5-211371 |
| S5-211183 | Rel-17 CR 32.255 Add Charging Information for URLLC Charging | Huawei | revised |  | S5-211374 |
| S5-211184 | Rel-17 pCR 28.822 Update of the skeleton | Huawei | approved |  |  |
| S5-211185 | Rel-17 pCR 28.822 Update of the Scope | Huawei | revised |  | S5-211395 |
| S5-211186 | Rel-17 pCR 28.822 Update of the Reference | Huawei | revised |  | S5-211396 |
| S5-211187 | Rel-17 pCR 28.822 Update of the Definition | Huawei | approved |  |  |
| S5-211188 | Rel-17 pCR 28.822 Introduce the background | Huawei | revised |  | S5-211397 |
| S5-211189 | Rel-17 pCR 28.822 5G VN group management for 5G LAN-type service | Huawei | revised |  | S5-211400 |
| S5-211190 | Rel-17 CR TS 28.535 add relationship between control loop and Communication service and NetworkSlice LCM | Huawei Technologies France | not pursued |  |  |
| S5-211191 | YANG NRM for Network Slicing | Cisco Systems Belgium | not pursued |  |  |
| S5-211192 | Reply LS on Enhancement of RAN Slicing | China Mobile Com. Corporation | merged |  | S5-211512 |
| S5-211193 | Rel-17 CR TS 32.130 update the scope to support 5G network sharing | ZTE Corporation | merged |  | S5-211465 |
| S5-211194 | Rel-17 CR TS 32.130 update the concept | ZTE Corporation | merged |  | S5-211465 |
| S5-211195 | Rel-17 CR TS 32.130 update the business requirements | ZTE Corporation | revised |  | S5-211488 |
| S5-211196 | Discussion on NG-RAN network sharing with multiple CellId | ZTE Corporation, China Unicom | noted |  |  |
| S5-211197 | Discussion on NG-RAN network sharing with multi-SSB | ZTE Corporation | withdrawn |  |  |
| S5-211198 | Discussion on NG-RAN network sharing with multi-SSB | ZTE Corporation | noted |  |  |
| S5-211199 | Add ANL high level features | Huawei Telecommunication India | noted |  |  |
| S5-211200 | Rel-16 CR 32.255 Correction of V-SMF Change in Roaming HR - flows | China Mobile Com. Corporation | agreed |  |  |
| S5-211201 | Add requirements of closed loop SLS assurance | Huawei Telecommunication India | not pursued |  |  |
| S5-211202 | Rel-17 CR 32.255 Correction of V-SMF Change in Roaming HR - flows | China Mobile Com. Corporation | agreed |  |  |
| S5-211203 | Rel-16 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | revised |  | S5-211414 |
| S5-211204 | Rel-17 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | revised |  | S5-211419 |
| S5-211205 | New SID on management aspects of network slice capability exposure | Alibaba Group | noted |  |  |
| S5-211206 | Rel-17 CR TS 32.130 add NG-RAN sharing deployment example in Annex | ZTE Corporation | not pursued |  |  |
| S5-211207 | pCR 32.846 Add usecase for ProSe Direct Discovery | CATT | revised |  | S5-211373 |
| S5-211208 | pCR 32.846 Add requirment for ProSe Direct Discovery | CATT | revised |  | S5-211376 |
| S5-211209 | pCR 32.846 Add possible solution for ProSe Direct Discovery | CATT | revised |  | S5-211377 |
| S5-211210 | Rel-16 CR 32.290 Correction on coverged session based charging | CATT | agreed |  |  |
| S5-211211 | Rel-17 CR 32.290 Correction on coverged session based charging | CATT | agreed |  |  |
| S5-211212 | Discussion on enhancement of service based management architecture | Huawei, China Telecom, China Unicom, China Mobile | noted |  |  |
| S5-211213 | New WID on enhancement of service based management architecture | Huawei, China Telecom, China Unicom, China Mobile | revised |  | S5-211460 |
| S5-211214 | Rel-16 CR 32.291 Missing eventLimit in trigger and OpenAPI | China Mobile Com. Corporation | revised |  | S5-211420 |
| S5-211215 | TS28.533 Add Management Service Type | China Mobile Com. Corporation | not pursued |  |  |
| S5-211216 | Rel-16 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs | Huawei | agreed |  |  |
| S5-211217 | Rel-17 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs | Huawei | agreed |  |  |
| S5-211218 | Rel-16 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM | Huawei | conditionally agreed |  |  |
| S5-211219 | Rel-17 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM | Huawei | conditionally agreed |  |  |
| S5-211220 | pCR TS 28.100 Update use case for coverage optimization | Huawei, China Mobile, China Telecom,China Unicom | revised |  | S5-211443 |
| S5-211221 | pCR TS 28.312 Update the intent definition to align with concept | Huawei,Ericsson | approved |  |  |
| S5-211222 | pCR TS 28.312 Add concept for intent lifecycle management | Huawei, China Mobile,Ericsson | noted |  |  |
| S5-211223 | pCR TS 28.312 Add stage 2 information model definition for intent | Huawei | noted |  |  |
| S5-211224 | pCR TS 28.312 Add stage 2 management operation for intent | Huawei,China Mobile | noted |  |  |
| S5-211225 | pCR TS 28.312 Add stage 2 procedure for intent lifecycle management | Huawei, China Mobile | noted |  |  |
| S5-211226 | Rel-17 CR TS 28.313 update procedure for plug and connect to management system | Huawei,China Telecom | not pursued |  |  |
| S5-211227 | Rel-17 CR TS 32.508 update procedures flows to applicable for RAN NE | Huawei,China Telecom | not pursued |  |  |
| S5-211228 | Discussion paper for NR NRM support 5G MOCN network sharing scenario | Huawei,China Unicom | revised |  | S5-211444 |
| S5-211229 | pCR 28.100 Update clause 4.3.4 workflow | China Mobile, Huawei, China Telecom, China Unicom | approved |  |  |
| S5-211230 | pCR 28.100 Add use case and requirements for fault management | China Mobile, Huawei, China Telecom, China Unicom | revised |  | S5-211459 |
| S5-211231 | Discussion on support radio resource usage per PLMN in MOCN network sharing | China Unicom | endorsed |  |  |
| S5-211232 | Adding Signalling Based Activation for UTRAN and LTE | Ericsson LM | approved |  |  |
| S5-211233 | Discussion paper on PC5 usage information reporting | CATT | noted |  |  |
| S5-211234 | Rel-17 CR TS 28.544 Enlarge scope of the EE KPI for eMBB | Orange | not pursued |  |  |
| S5-211235 | Add PLMN granularity for Radio resource utilization measurements | China Unicom, ZTE, HUAWEI | revised |  | S5-211501 |
| S5-211236 | LS reply on LS on 5G ProSe charging updates | CATT | revised |  | S5-211423 |
| S5-211237 | pCR 28.809 RAN node software upgrade Evaluation | Samsung Electronics Benelux BV | approved |  |  |
| S5-211238 | pCR 28.809 Paging Optimization Evaluation | Samsung Electronics Benelux BV | revised |  | S5-211502 |
| S5-211239 | pCR 28.809 Network slice traffic projections Evaluation | Samsung Electronics Benelux BV | merged |  | S5-211449 |
| S5-211240 | pCR 28.809 HO Optimization based on UE Load Evaluation | Samsung Electronics Benelux BV | revised |  | S5-211503 |
| S5-211241 | pCR 28.808 Allign Terms clause with TR 21.801 based on comments received from ETSI EditHelp | TNO | approved |  |  |
| S5-211242 | Rel-16 CR 28.532 Correct definitions for the File MnS (stage 2) | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-211243 | pCR 28.808 Clarify use of -shall- in potential requirements based on comments received from ETSI EditHelp | TNO | approved |  |  |
| S5-211244 | pCR 28.808 Editorial corrections based on comments received from ETSI EditHelp | TNO | approved |  |  |
| S5-211245 | Rel-17 Input To draftCR for WI eMA5SLA Slice Profile | Samsung Electronics Benelux BV | revised |  | S5-211504 |
| S5-211246 | Rel-16 CR 28.532 Correct definitions for the File MnS (REST SS) | Nokia; Nokia Shanghai Bell | not pursued |  |  |
| S5-211247 | Rel-16 CR 28.532 Correct definitions for the File MnS (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-211248 | Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2) | Nokia, Nokia Shanghai Bell | revised |  | S5-211532 |
| S5-211249 | Rel-17 Input To draftCR for WI eMA5SLA Configuration Parameters | Samsung Electronics Benelux BV | revised |  | S5-211505 |
| S5-211250 | Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2) | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-211251 | Rel-16 CR 28.623 Replace legacy IRPAgent with MnsAgent (stage 3) | Nokia, Nokia Shanghai Bell | conditionallyagreed |  |  |
| S5-211252 | LS to SA2 on Slice Configurations | Samsung Electronics Benelux BV | postponed |  |  |
| S5-211253 | TR 28.822 0.0.0 skeleton | Huawei | revised |  | S5-211340 |
| S5-211254 | pCR 28.814 Solution for Edge Performance Assurance | Samsung Electronics Benelux BV | revised |  | S5-211506 |
| S5-211255 | pCR 28.814 Solution for EES deployment | Samsung Electronics Benelux BV | revised |  | S5-211507 |
| S5-211256 | Analysics Feedback Use case and Solution | Nokia Germany | noted |  |  |
| S5-211257 | pCR 28.814 Solution for ECS deployment | Samsung Electronics Benelux BV | merged |  | S5-211508 |
| S5-211258 | Rel-17 CT 28.537 Add requirements for File Management | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-211259 | New SID on Nchf charging service phase 2 | Ericsson LM | noted |  |  |
| S5-211260 | Rel-17 CR TS 32.260 Moving offline only to offline clause | Ericsson LM | revised |  | S5-211401 |
| S5-211261 | Rel-17 CR TS 32.260 Update of converged charging trigger tables using IMS node | Ericsson LM | revised |  | S5-211403 |
| S5-211262 | Rel-17 CR TS 32.260 Addition of converged charging IMS information | Ericsson LM | agreed |  |  |
| S5-211263 | Rel-17 CR TS 32.281 Addition of multiple unit information content | Ericsson LM | revised |  | S5-211404 |
| S5-211264 | Rel-16 CR TS 32.298 Correction of SubscriptionID usage | Ericsson LM | revised |  | S5-211405 |
| S5-211265 | Rel-16 CR TS 32.298 Correcting backwards compatibility of AMFID | Ericsson LM | revised |  | S5-211406 |
| S5-211266 | Rel-16 CR TS 32.298 Correcting optional parameters for CHF CDR | Ericsson LM | revised |  | S5-211407 |
| S5-211267 | Rel-16 CR TS 32.298 Correcting missing value in CauseForRecClosing | Ericsson LM | agreed |  |  |
| S5-211268 | Rel-16 CR TS 32.298 Correcting diagnostic parameters for CHF CDR | Ericsson LM | revised |  | S5-211408 |
| S5-211269 | Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence | Ericsson LM | revised |  | S5-211409 |
| S5-211270 | Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo | Ericsson LM | revised |  | S5-211410 |
| S5-211271 | Rel-16 CR TS 32.255 Correcting missing handover cancel in table | Ericsson LM | revised |  | S5-211411 |
| S5-211272 | Rel-16 CR TS 32.255 Correcting missing ECGI and TAI in table | Ericsson LM | not pursued |  |  |
| S5-211273 | Rel-16 CR TS 32.291 Correcting response code references | Ericsson LM | not pursued |  |  |
| S5-211274 | Rel-16 CR TS 32.291 Correcting missing eventLimit | Ericsson LM | merged |  | S5-211420 |
| S5-211275 | Rel-16 CR TS 32.291 Correcting binding for iPv6dynamicPrefixFlag | Ericsson LM | revised |  | S5-211413 |
| S5-211276 | Rel-16 CR TS 32.291 Correcting NEF naming | Ericsson LM | agreed |  |  |
| S5-211277 | Rel-16 CR TS 32.291 Correcting ChargingNotifyResponse usage | Ericsson LM | not pursued |  |  |
| S5-211278 | Rel-17 pCR TR 28.815 Requirements for 5GS usage based charging | Ericsson LM | revised |  | S5-211415 |
| S5-211279 | Rel-17 pCR TR 32.846 Separating the topic for ProSe direct discovery and communication | Ericsson LM | revised |  | S5-211417 |
| S5-211280 | Rel-17 pCR TR 32.846 Solution for ProSe direct discovery | Ericsson LM | noted |  |  |
| S5-211281 | Rel-17 CT 28.537 Add requirements for Management Data Management | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-211282 | pCR 28.811 Update to end to end network slice concept | Ericsson LM | revised |  | S5-211476 |
| S5-211283 | pCR 28.811 Multi-operator concepts | Ericsson LM | revised |  | S5-211477 |
| S5-211284 | pCR 28.811 Service life cycle concept and scenarios | Ericsson LM | noted |  |  |
| S5-211285 | Update definitions around MDA and ML training | Ericsson LM | noted |  |  |
| S5-211286 | Code begin end markers | Ericsson Hungary Ltd | endorsed |  |  |
| S5-211287 | Discussion on NR NRM support for MOCN | Ericsson LM | noted |  |  |
| S5-211288 | Rel-17 CR TS 28.541 RAN Sharing support MOCN | Ericsson LM | not pursued |  |  |
| S5-211289 | Rel-16 CR 28.545 Add missing Alarm Requirements and Use Cases | Ericsson LM | not pursued |  |  |
| S5-211290 | Rel-17 CR 32.290 Add the TS reference for PGW | Nokia, Nokia Shanghai Bell | revised |  | S5-211379 |
| S5-211291 | Rel-16 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | revised |  | S5-211382 |
| S5-211292 | Rel-17 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | revised |  | S5-211384 |
| S5-211293 | Rel-16 CR 32.290 Correction on Supported Features attribute | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211294 | Rel-17 CR 32.290 Correction on Supported Features attribute | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211295 | Rel-17 CR 32.260 Introduction of CHF framework in the scope | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211296 | Rel-17 CR 32.260 Clarify Charging service selection | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211297 | Rel-17 CR 32.275 Introduction of CHF framework in the scope | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211298 | Rel-17 CR 32.275 Introduce Post Event Charging (PEC) | Nokia, Nokia Shanghai Bell | revised |  | S5-211375 |
| S5-211299 | Correct NtfSubscriptionControl containment in YANG | Ericsson Hungary Ltd | conditionally agreed |  |  |
| S5-211300 | Rel-17 Draft CR 28.537 Add requirements for File Management | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-211301 | Rel-17 Draft CR 28.537 Add requirements for Management Data Management | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-211302 | 28.817 access control overview | Nokia, Nokia Shanghai Bell | revised |  | S5-211450 |
| S5-211303 | 28.817 access control concept | Nokia, Nokia Shanghai Bell | revised |  | S5-211451 |
| S5-211304 | 28.817 use case - MnS is accessed by a consumer in the same domain | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-211305 | 28.817 use case - MnS is accessed by a consumer in the different domain of 3GPP system | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S5-211306 | 28.817 use case - MnS is accessed by a digital portal of the operator | Nokia, Nokia Shanghai Bell | revised |  | S5-211452 |
| S5-211307 | 28.817 use case - MnS is accessed by a external consumer of the 3GPP system | Nokia, Nokia Shanghai Bell | revised |  | S5-211453 |
| S5-211308 | Response to LS Reply on Enhancement of RAN Slicing | Nokia, Nokia Shanghai Bell | merged |  | S5-211512 |
| S5-211309 | TD network slice coverage area mapping | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-211310 | Rel-16 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | revised |  | S5-211456 |
| S5-211311 | Rel-17 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | revised |  | S5-211457 |
| S5-211312 | Rel-16 cleanup concepts of network slice buisness model | Nokia, Nokia Shanghai Bell, Telefónica S.A. | not pursued |  |  |
| S5-211313 | Rel-17 cleanup concepts of network slice buisness model | Nokia, Nokia Shanghai Bell, Telefónica S.A. | not pursued |  |  |
| S5-211314 | TD tenant information to support multi-tenancy for network slice management. | Nokia, Nokia Shanghai Bell | revised |  | S5-211458 |
| S5-211315 | add tenant information in NRM | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-211316 | Correct NR endpoint classes containment in YANG | Ericsson Hungary Ltd | conditionally agreed |  |  |
| S5-211317 | Slice coverage optimization: Use case and solution enhancements | Nokia Germany | revised |  | S5-211473 |
| S5-211318 | Correct NR endpoint classes containment in YANG | Ericsson Hungary Ltd | conditionally agreed |  |  |
| S5-211319 | Generic Plug and connect - Discussion | Ericsson France S.A.S | noted |  |  |
| S5-211320 | Generic Plug and Connect | Ericsson France S.A.S | revised |  | S5-211530 |
| S5-211321 | CHO measurements discussion | Ericsson France S.A.S | endorsed |  |  |
| S5-211322 | CHO measurements | Ericsson France S.A.S | not pursued |  |  |
| S5-211323 | CHO measurements KPI | Ericsson France S.A.S | agreed |  |  |
| S5-211324 | LS on Handover terminology | Ericsson France S.A.S | approved |  |  |
| S5-211325 | 28.817 use case - MnS is accessed by a consumer in the same domain | Nokia, Nokia Shanghai Bell | revised |  | S5-211454 |
| S5-211326 | 28.817 use case - MnS is accessed by a consumer in the different domain of 3GPP system | Nokia, Nokia Shanghai Bell | revised |  | S5-211455 |
| S5-211327 | Proposal on communication service assurance stage 1 and stage 2 alignment | Ericsson LM, Deutsche Telekom | noted |  |  |
| S5-211328 | Rel 16 CR TS 28.535 Update use cases and requirements to replace communication service | Ericsson LM, Deutsche Telekom | not pursued |  |  |
| S5-211329 | Rel 17 CR TS 28.535 Update use cases and requirements to replace communication service | Ericsson LM, Deutsche Telekom | not pursued |  |  |
| S5-211330 | Rel 16 CR TS 28.535 Remove use cases and requirements with no solution | Ericsson LM, Deutsche Telekom | not pursued |  |  |
| S5-211331 | Rel 16 CR TS 28.536 Remove overview from stage 2 description | Ericsson LM, Deutsche Telekom | agreed |  |  |
| S5-211332 | New SID on CI-CD support for netowrk slicing | Lenovo Mobile Com. Technology | revised |  | S5-211527 |
| S5-211333 | Rel 16 CR TS 28.535 Clarify intelligence in clause 4 | Ericsson LM, Deutsche Telekom | revised |  | S5-211474 |
| S5-211334 | Discussion paper on latency | Ericsson LM | withdrawn |  |  |
| S5-211335 | Rel-17 TS 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA | Ericsson LM, Deutsche Telekom | not pursued |  |  |
| S5-211336 | Discussion paper on state management | Ericsson LM, Deutsche Telekom | noted |  |  |
| S5-211337 | Rel 16 CR TS 28.536 add explanation for Entities in loop | Lenovo Mobile Com. Technology | not pursued |  |  |
| S5-211338 | Discussion on the need for CI-CD spec | Lenovo Mobile Com. Technology | noted |  |  |
| S5-211339 | Discussion on how to document solutions for ACCL use cases | Lenovo, Motorola Mobility | revised |  | S5-211531 |
| S5-211340 | 28822-001 | Huawei | approved | S5-211253 |  |
| S5-211341 | Rel-16 fix compilation error in 28541 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211342 | Rel-17 fix compilation error in 28541 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211343 | Rel-16 fix compilation error in 28623 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211344 | Rel-16 fix compilation error in 28532 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-211345 | LS/o ccSA5 on Establishment of new Focus Group on Autonomous Networks | ITU-T SG13 | noted |  |  |
| S5-211346 | LS/r on methodology harmonization and REST-based network management framework (reply to 3GPP TSG SA5-S5-204647) | ITU-T SG2 | postponed |  |  |
| S5-211347 | LS/r on work progress on M.resm-AI "Requirements for energy saving management of 5G RAN system with AI" (reply to 3GPP SA5-LS1225) | ITU-T SG2 | postponed |  |  |
| S5-211348 | TD forge process proposal for yaml code in 135e meeting | Nokia, Nokia Shanghai Bell | endorsed |  |  |
| S5-211349 | YANG NRM for Network Slicing | Cisco Systems Belgium | not pursued |  |  |
| S5-211350 | LS Reply to RAN3 on QoS Monitoring for URLLC | Intel Finland Oy | approved |  |  |
| S5-211351 | Correcting YANG errors | Ericsson Hungary Ltd | agreed |  |  |
| S5-211352 | Correct YANG errors | Ericsson Hungary Ltd | agreed |  |  |
| S5-211353 | Correct YANG errors | Ericsson Hungary Ltd | agreed |  |  |
| S5-211354 | Rel 17 CR TS 28.535 Add use cases left from rel-16 | Ericsson LM | not pursued |  |  |
| S5-211355 | DraftCR for 6.4.6 ePM\_KPI\_5G - TS 28.552 | Intel | approved | S5-205282 |  |
| S5-211356 | Update DraftCR for WI EMA5SLA-TS 28.540 | China Mobile Com. Corporation | approved |  |  |
| S5-211357 | Update DraftCR for WI EMA5SLA-TS 28.541 | China Mobile Com. Corporation | approved |  |  |
| S5-211358 | Rel-17 draft CR 28.535 eCOSLA | Ericsson LM | approved |  |  |
| S5-211359 | Rel-17 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA | Ericsson LM | approved |  |  |
| S5-211360 | Input to DraftCR TS28.533 Add Management Service Type | China Mobile Com. Corporation | noted |  |  |
| S5-211361 | LS on the clarification of HO and/or reselection parameters ranges required by MLB | Intel Deutschland GmbH | revised |  | S5-211442 |
| S5-211362 | Rel-16 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | conditionally agreed | S5-211091 |  |
| S5-211363 | Rel-17 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | conditionally agreed | S5-211092 |  |
| S5-211364 | CH agenda and time plan | WG vice Chair (Nokia) | noted | S5-211008 |  |
| S5-211365 | DraftCR 5GSIMSCH TS 32.291 IMS Information in converged charging | China Mobile | approved |  |  |
| S5-211366 | DraftCR 5GSIMSCH TS 32.298 IMS Information in converged charging | China Mobile | approved |  |  |
| S5-211367 | Rel-17 CR 28.537 Add DMS use cases and requirements | Huawei Technologies Sweden AB | agreed |  |  |
| S5-211368 | Rel-17 CR 32.255 Add the PDU Modification and Release Message Flow | Huawei | agreed | S5-211179 |  |
| S5-211369 | Rel-17 CR 32.255 Add PDU Modification and Release Message Flow for URLLC Charging | Huawei | agreed | S5-211180 |  |
| S5-211370 | Rel-17 CR 32.255 Add the Quota Management for URLLC Charging | Huawei | agreed | S5-211181 |  |
| S5-211371 | Rel-17 CR 32.255 Add the Usage Reporting for URLLC Charging | Huawei | agreed | S5-211182 |  |
| S5-211372 | Rel-17 CR 32.260 add IMS offline only charging information | Huawei | agreed | S5-211162 |  |
| S5-211373 | pCR 32.846 Add usecase for ProSe Direct Discovery | CATT | approved | S5-211207 |  |
| S5-211374 | Rel-17 CR 32.255 Add Charging Information for URLLC Charging | Huawei | agreed | S5-211183 |  |
| S5-211375 | Rel-17 CR 32.275 Introduce Post Event Charging (PEC) | Nokia, Nokia Shanghai Bell | agreed | S5-211298 |  |
| S5-211376 | pCR 32.846 Add requirment for ProSe Direct Discovery | CATT | approved | S5-211208 |  |
| S5-211377 | pCR 32.846 Add possible solution for ProSe Direct Discovery | CATT | approved | S5-211209 |  |
| S5-211378 | pCR 28.816 add use case of NIDD for control plane data transfer charging | Huawei | approved | S5-211163 |  |
| S5-211379 | Rel-17 CR 32.290 Add the TS reference for PGW | Nokia, Nokia Shanghai Bell | agreed | S5-211290 |  |
| S5-211380 | Rel-16 CR 32.254 Correction on different identities | Nokia, Nokia Shanghai Bell | agreed | S5-211125 |  |
| S5-211381 | Rel-16 CR 32.240 Correct the definition of billing domain | Huawei | agreed | S5-211173 |  |
| S5-211382 | Rel-16 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | agreed | S5-211291 |  |
| S5-211383 | Draft 32.846 | CATT | approved |  |  |
| S5-211384 | Rel-17 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | agreed | S5-211292 |  |
| S5-211385 | Rel-17 pCR 32.847 Introduction of background on NS charging information | Nokia, Nokia Shanghai Bell | approved | S5-211107 |  |
| S5-211386 | Rel-17 CR 32.240 Correct the definition of billing domain | Huawei | agreed | S5-211174 |  |
| S5-211387 | Rel-17 pCR 32.847 Introduction of potential requirements | Nokia, Nokia Shanghai Bell | approved | S5-211108 |  |
| S5-211388 | pCR 28.816 add use case rate control of user data in control plane data transfer charging | Huawei | approved | S5-211166 |  |
| S5-211389 | Rel-16 CR 32.255 correct steps in V\_SMF change | Huawei | agreed | S5-211171 |  |
| S5-211390 | Rel-16 CR 32.240 Correct the charging architecture | Huawei | agreed | S5-211177 |  |
| S5-211391 | Rel-17 CR 32.255 correct steps in I\_SMF change | Huawei | agreed | S5-211172 |  |
| S5-211392 | pCR 28.816 add use case for EPS interworking | Huawei | approved | S5-211167 |  |
| S5-211393 | Rel-17 CR 32.240 Correct the charging architecture | Huawei | agreed | S5-211178 |  |
| S5-211394 | pCR 28.816 add abbreviations | Huawei | approved | S5-211168 |  |
| S5-211395 | Rel-17 pCR 28.822 Update of the Scope | Huawei | approved | S5-211185 |  |
| S5-211396 | Rel-17 pCR 28.822 Update of the Reference | Huawei | approved | S5-211186 |  |
| S5-211397 | Rel-17 pCR 28.822 Introduce the background | Huawei | approved | S5-211188 |  |
| S5-211398 | Rel-17 pCR 28.822 Introduce the background | Huawei | withdrawn | - |  |
| S5-211399 | pCR 28.816 add mapping of use cases in charging aspects | Huawei | approved | S5-211169 |  |
| S5-211400 | Rel-17 pCR 28.822 5G VN group management for 5G LAN-type service | Huawei | approved | S5-211189 |  |
| S5-211401 | Rel-17 CR TS 32.260 Moving offline only to offline clause | Ericsson LM | agreed | S5-211260 |  |
| S5-211402 | pCR 28.815 update charging scenarios and key issues on charging for edge enabling services | Huawei | approved | S5-211170 |  |
| S5-211403 | Rel-17 CR TS 32.260 Update of converged charging trigger tables using IMS node | Ericsson LM | agreed | S5-211261 |  |
| S5-211404 | Rel-17 CR TS 32.281 Addition of multiple unit information content | Ericsson LM | agreed | S5-211263 |  |
| S5-211405 | Rel-16 CR TS 32.298 Correction of SubscriptionID usage | Ericsson LM | agreed | S5-211264 |  |
| S5-211406 | Rel-16 CR TS 32.298 Correcting backwards compatibility of AMFID | Ericsson LM | agreed | S5-211265 |  |
| S5-211407 | Rel-16 CR TS 32.298 Correcting optional parameters for CHF CDR | Ericsson LM | agreed | S5-211266 |  |
| S5-211408 | Rel-16 CR TS 32.298 Correcting diagnostic parameters for CHF CDR | Ericsson LM | agreed | S5-211268 |  |
| S5-211409 | Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence | Ericsson LM | revised | S5-211269 | S5-211462 |
| S5-211410 | Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo | Ericsson LM | revised | S5-211270 | S5-211463 |
| S5-211411 | Rel-16 CR TS 32.255 Correcting missing handover cancel in table | Ericsson LM | agreed | S5-211271 |  |
| S5-211412 | Rel-17 CR TS 32.255 Correcting missing handover cancel in table | Ericsson LM | agreed |  |  |
| S5-211413 | Rel-16 CR TS 32.291 Correcting binding for iPv6dynamicPrefixFlag | Ericsson LM | agreed | S5-211275 |  |
| S5-211414 | Rel-16 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | agreed | S5-211203 |  |
| S5-211415 | Rel-17 pCR TR 28.815 Requirements for 5GS usage based charging | Ericsson LM | approved | S5-211278 |  |
| S5-211416 | Rel-17 TR 32.847 skeleton | Matrixx | approved | S5-211042 |  |
| S5-211417 | Rel-17 pCR TR 32.846 Separating the topic for ProSe direct discovery and communication | Ericsson LM | approved | S5-211279 |  |
| S5-211418 | Rel-17 pCR TR 32.847 - add scope | Matrixx | approved | S5-211043 |  |
| S5-211419 | Rel-17 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | agreed | S5-211204 |  |
| S5-211420 | Rel-16 CR 32.291 Missing eventLimit in trigger and OpenAPI | China Mobile Com. Corporation | agreed | S5-211214 |  |
| S5-211421 | Rel-17 pCR TR 32.847 - Introduction of key Issue #1 & #2 | Matrixx | approved | S5-211046 |  |
| S5-211422 | RAN Sharing support MOCN | Ericsson LM | withdrawn |  |  |
| S5-211423 | LS reply on LS on 5G ProSe charging updates | CATT | approved | S5-211236 |  |
| S5-211424 | DraftTR 28.816 | Huawei Tech.(UK) Co.. Ltd | approved |  |  |
| S5-211425 | pCR 28.815 Add possible solutions on charging for edge enabling infrastructure resources and services | Intel Finland Oy | approved | S5-211097 |  |
| S5-211426 | Draft TR 28.815 | Intel Finland Oy | approved |  |  |
| S5-211427 | Draft TR 32.847 | Matrixx | approved |  |  |
| S5-211428 | 28.822-010 | Huawei | approved |  |  |
| S5-211429 | Rel-16 CR 32.254 Correction on Multiple Unit Usage | Nokia, Nokia Shanghai Bell | agreed | S5-211126 |  |
| S5-211430 | YANG containment mapping | Ericsson Hungary Ltd | agreed |  |  |
| S5-211431 | Add LBO use cases, requirements, and related information | Intel Deutschland GmbH | agreed | S5-211128 |  |
| S5-211432 | Rel-16 CR 28.533 Fix errors in Exposure Governance description | Huawei | agreed | S5-211058 |  |
| S5-211433 | Rel-15 CR 28.533 Fix errors in Exposure Governance description | Huawei | agreed | S5-211059 |  |
| S5-211434 | pCR 28.811 Add deployment of edge application service | Huawei | approved | S5-211074 |  |
| S5-211435 | pCR 28.811 Add description of cross-operator management of network slice | Huawei | approved | S5-211075 |  |
| S5-211436 | Draft TR 28.811 | Huawei Technologies Sweden AB | approved |  |  |
| S5-211437 | Discussion Paper on providing cell energySaving Status information to NWDAF via Generic Provisioning Services | China Telecom Corporation Ltd. | endorsed | S5-211154 |  |
| S5-211438 | LS on providing cell energySaving Status information to NWDAF | China Telecom Corporation Ltd. | approved | S5-211155 |  |
| S5-211439 | pCR TR 28.813 Update clause 4.4 to align with already approved CR | Orange | approved | S5-211033 |  |
| S5-211440 | Draft TR 28.813 | Orange | approved |  |  |
| S5-211441 | Rel-17 CR TS 28.310 Add introductory text to EE KPIs for network slices | Orange, AT&T, Deutsche Telekom | agreed | S5-211035 |  |
| S5-211442 | LS on the clarification of HO and/or reselection parameters ranges required by MLB | Intel Deutschland GmbH | approved | S5-211361 |  |
| S5-211443 | pCR TS 28.100 Update use case for coverage optimization | Huawei, China Mobile, China Telecom,China Unicom | approved | S5-211220 |  |
| S5-211444 | Discussion paper for NR NRM support 5G MOCN network sharing scenario | Huawei,China Unicom | endorsed | S5-211228 |  |
| S5-211445 | Latest draft TS 28.312 | HUAWEI Technologies Japan K.K. | approved |  |  |
| S5-211446 | Rel-17 Input to draftCR 28.541 Add new attributes in CNSliceSubnetProfile and RANSliceSubnetProfile | China Mobile Com. Corporation, Huawei, China Southern Power Grid | approved | S5-211159 |  |
| S5-211447 | pCR 28.809 Update solution on MDA assisted energy saving | China Telecom Corporation Ltd. | approved | S5-211054 |  |
| S5-211448 | Discussion paper on UPF load prediction for MDAS services | China Telecom Corporation Ltd. | endorsed | S5-211158 |  |
| S5-211449 | pCR 28.809 Update the use case of traffice projection | HuaWei Technologies Co., Ltd,Samsung Electronics Benelux BV | approved | S5-211134 |  |
| S5-211450 | 28.817 access control overview | Nokia, Nokia Shanghai Bell | approved | S5-211302 |  |
| S5-211451 | 28.817 access control concept | Nokia, Nokia Shanghai Bell | approved | S5-211303 |  |
| S5-211452 | 28.817 use case - MnS is accessed by a digital portal of the operator | Nokia, Nokia Shanghai Bell | approved | S5-211306 |  |
| S5-211453 | 28.817 use case - MnS is accessed by a external consumer of the 3GPP system | Nokia, Nokia Shanghai Bell | approved | S5-211307 |  |
| S5-211454 | 28.817 use case - MnS is accessed by a consumer in the same domain | Nokia, Nokia Shanghai Bell | approved | S5-211325 |  |
| S5-211455 | 28.817 use case - MnS is accessed by a consumer in the different domain of 3GPP system | Nokia, Nokia Shanghai Bell | approved | S5-211326 |  |
| S5-211456 | Rel-16 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | conditionally agreed | S5-211310 |  |
| S5-211457 | Rel-17 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | conditionally agreed | S5-211311 |  |
| S5-211458 | TD tenant information to support multi-tenancy for network slice management. | Nokia, Nokia Shanghai Bell | endorsed | S5-211314 |  |
| S5-211459 | pCR 28.100 Add use case and requirements for fault management | China Mobile, Huawei, China Telecom, China Unicom | approved | S5-211230 |  |
| S5-211460 | New WID on enhancement of service based management architecture | Huawei, China Telecom, China Unicom, China Mobile, Ericsson | noted | S5-211213 |  |
| S5-211461 | List of Approved DraftCR | SA5 Vice chair (Huawei) | endorsed | S5-211089 |  |
| S5-211462 | Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence | Ericsson LM | agreed | S5-211409 |  |
| S5-211463 | Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo | Ericsson LM | agreed | S5-211410 |  |
| S5-211464 | LS reply to LS on controlling the number of UEs and PDU Sessions in a Network Slice | Nokia, Nokia Shanghai Bell | approved | S5-211122 |  |
| S5-211465 | Rel-17 CR TS 32.130 Update the scope and background of network sharing scenarios | China Telecommunications, China Unicom, Huawei, ZTE | agreed | S5-211156 |  |
| S5-211466 | Add new clause for URI | Ericsson LM | agreed | S5-211077 |  |
| S5-211467 | Correct trace record information for immediate MDT measurement | Ericsson LM | agreed | S5-211079 |  |
| S5-211468 | Add new requirement for GPB trace format | Ericsson LM | agreed | S5-211082 |  |
| S5-211469 | Add new clause for URI | Ericsson LM | agreed | S5-211083 |  |
| S5-211470 | Add new parameters for trace record header | Ericsson LM | agreed | S5-211086 |  |
| S5-211471 | Correct trace record information for immediate MDT measurement | Ericsson LM | agreed | S5-211087 |  |
| S5-211472 | draft TS 28100-030 | China Mobile Com. Corporation | approved |  |  |
| S5-211473 | Slice coverage optimization: Use case and solution enhancements | Nokia Germany | approved | S5-211317 |  |
| S5-211474 | Rel 16 CR TS 28.535 Clarify intelligence in clause 4 | Ericsson LM, Deutsche Telekom | agreed | S5-211333 |  |
| S5-211475 | Draft TR 28.817 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-211476 | pCR 28.811 Update to end to end network slice concept | Ericsson LM | approved | S5-211282 |  |
| S5-211477 | pCR 28.811 Multi-operator concepts | Ericsson LM | approved | S5-211283 |  |
| S5-211478 | Reply LS on network data analysis energy saving | Orange | approved | S5-211031 |  |
| S5-211479 | pCR 28.557 Add CAG management | TELEFONICA S.A. | approved | S5-211106 |  |
| S5-211480 | Rel-16 CR TS 28.310 Introducing the ES probing procedure | KPN N.V. | agreed | S5-211041 |  |
| S5-211481 | Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | agreed | S5-211110 |  |
| S5-211482 | Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | agreed | S5-211112 |  |
| S5-211483 | pCR 28.809 Update diagram of MDA process | Intel Finland Oy | approved | S5-211098 |  |
| S5-211484 | pCR 28.809 Rapporture clean-up | Intel Finland Oy, NEC | approved | S5-211100 |  |
| S5-211485 | pCR 28.809 Add scope | Intel Finland Oy, NEC | approved | S5-211099 |  |
| S5-211486 | Draft TR 28.809 | Intel Finland Oy, HUAWEI | approved |  |  |
| S5-211487 | DraftCR for WI eSON\_5G | Intel Deutschland GmbH | approved |  |  |
| S5-211488 | Rel-17 CR TS 32.130 update the business requirements | ZTE Corporation | agreed | S5-211195 |  |
| S5-211489 | Rel-17 CR TS 28.552 Add PLMN granularity for number of active UEs measurements | China Telecommunications | agreed | S5-211052 |  |
| S5-211490 | Rel-17 CR TS 28.552 Add PLMN granularity for packet delay measurements | China Telecommunications | agreed | S5-211053 |  |
| S5-211491 | Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | agreed | S5-211131 |  |
| S5-211492 | Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | agreed | S5-211132 |  |
| S5-211493 | Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | agreed | S5-211133 |  |
| S5-211494 | pCR 28.557 Management modes of NPN | Huawei | approved | S5-211137 |  |
| S5-211495 | pCR 28.557 Roles related to 5G PLMN management and NPN management | Huawei | approved | S5-211138 |  |
| S5-211496 | pCR 28.557 Update on NID for SNPN management | Huawei | approved | S5-211139 |  |
| S5-211497 | pCR 28.557 Update on use case of SNPN | Huawei | approved | S5-211140 |  |
| S5-211498 | pCR 28.557 Collecting UE related data and providing to authorized NPN service customer | Huawei | approved | S5-211141 |  |
| S5-211499 | pCR 28.557 Add generic requirements for management of NPN | Huawei | approved | S5-211142 |  |
| S5-211500 | pCR 28.809 Update on MDA assisted energy saving | Huawei | approved | S5-211146 |  |
| S5-211501 | Add PLMN granularity for Radio resource utilization measurements | China Unicom, ZTE, HUAWEI | agreed | S5-211235 |  |
| S5-211502 | pCR 28.809 Paging Optimization Evaluation | Samsung Electronics Benelux BV | approved | S5-211238 |  |
| S5-211503 | pCR 28.809 HO Optimization based on UE Load Evaluation | Samsung Electronics Benelux BV | approved | S5-211240 |  |
| S5-211504 | Rel-17 Input To draftCR for WI eMA5SLA Slice Profile | Samsung Electronics Benelux BV | approved | S5-211245 |  |
| S5-211505 | Rel-17 Input To draftCR for WI eMA5SLA Configuration Parameters | Samsung Electronics Benelux BV | approved | S5-211249 |  |
| S5-211506 | pCR 28.814 Solution for Edge Performance Assurance | Samsung Electronics Benelux BV | approved | S5-211254 |  |
| S5-211507 | pCR 28.814 Solution for EES deployment | Samsung Electronics Benelux BV | approved | S5-211255 |  |
| S5-211508 | pCR 28.814 solution for ECS deployment | Huawei | approved | S5-211071 |  |
| S5-211509 | Latest draft TS 28.557 | Huawei | approved |  |  |
| S5-211510 | DraftCR for WI eQoE | Ericsson | approved |  |  |
| S5-211511 | Draft TR28.808 | TNO | approved |  |  |
| S5-211512 | Reply LS on Enhancement of RAN Slicing | Ericsson LM, China Mobile Com. Corporation, Nokia, Nokia Shanghai Bell | approved | S5-211094 |  |
| S5-211513 | pCR 28.814 EAS performance assurance use case | Intel Deutschland GmbH | withdrawn | - |  |
| S5-211514 | pCR 28.814 EAS performance assurance solution | Intel Deutschland GmbH | approved | S5-211114 |  |
| S5-211515 | pCR 28.814 add solutions for EES deployment | Intel Deutschland GmbH | approved | S5-211115 |  |
| S5-211516 | pCR 28.814 add solutions for ECS deployment | Intel Deutschland GmbH | approved | S5-211116 |  |
| S5-211517 | pCR 28.814 UC of access to 5GC functions | Intel Deutschland GmbH | withdrawn | - |  |
| S5-211518 | pCR 28.814 add solutions for connection Information to enable access to 5GC functions | Intel Deutschland GmbH | approved | S5-211120 |  |
| S5-211519 | pCR 28.814 add editorial changes to restructure EAS deployment solution | Intel Deutschland GmbH | approved | S5-211111 |  |
| S5-211520 | Draft TR 28.814 V0.3.0 | Intel Deutschland GmbH | approved |  |  |
| S5-211521 | Reply LS on OAM that supports RAT/frequency data | China Telecomunication Corp. | approved | S5-211056 |  |
| S5-211522 | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM | Huawei, Ericsson | withdrawn | - |  |
| S5-211523 | DP on MnS types for closed control loop | Huawei Technologies Japan K.K. | endorsed | S5-211147 |  |
| S5-211524 | e-meeting process | WG Chair | noted | S5-211002 |  |
| S5-211525 | SA5 working procedures | WG Chair | approved | S5-211010 |  |
| S5-211526 | SA5 meeting calendar | WG Chair | noted | S5-211013 |  |
| S5-211527 | New SID on CI-CD support for netowrk slicing | Lenovo Mobile Com. Technology | agreed | S5-211332 |  |
| S5-211528 | Rel-16 CR 28.531 Correction of NSI and NSSI Operations | Ericsson LM | agreed | S5-211090 |  |
| S5-211529 | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM | Huawei, Ericsson | agreed | S5-211061 |  |
| S5-211530 | Generic Plug and Connect | Ericsson France S.A.S | agreed | S5-211320 |  |
| S5-211531 | Discussion on how to document solutions for ACCL use cases | Lenovo, Motorola Mobility | endorsed | S5-211339 |  |
| S5-211532 | Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2) | Nokia, Nokia Shanghai Bell | agreed | S5-211248 | - |
| S5-211533 | Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2) | Nokia, Nokia Shanghai Bell | conditionally agreed | S5-211250 |  |

### A2: Tdoc decision timing

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| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S5-211000 | 08/02/2021 16:27:58 | approved |
| S5-211001 | 08/02/2021 16:28:00 | approved |
| S5-211003 | 09/02/2021 13:30:33 | noted |
| S5-211004 | 09/02/2021 16:29:34 | noted |
| S5-211004 | 09/02/2021 16:37:06 | revised |
| S5-211004 | 09/02/2021 16:37:27 | noted |
| S5-211005 | 09/02/2021 16:29:18 | noted |
| S5-211009 | 09/02/2021 16:39:54 | noted |
| S5-211011 | 09/02/2021 16:29:27 | noted |
| S5-211012 | 09/02/2021 12:59:40 | withdrawn |
| S5-211014 | 09/02/2021 13:43:50 | noted |
| S5-211015 | 09/02/2021 16:40:38 | noted |
| S5-211016 | 09/02/2021 13:47:07 | postponed |
| S5-211017 | 09/02/2021 13:44:01 | postponed |
| S5-211018 | 09/02/2021 13:57:07 | noted |
| S5-211019 | 09/02/2021 13:53:39 | noted |
| S5-211020 | 09/02/2021 13:59:22 | available |
| S5-211021 | 09/02/2021 13:46:11 | available |
| S5-211022 | 09/02/2021 13:31:15 | available |
| S5-211023 | 09/02/2021 13:47:59 | available |
| S5-211024 | 09/02/2021 16:10:05 | available |
| S5-211025 | 09/02/2021 13:49:46 | noted |
| S5-211026 | 09/02/2021 13:53:45 | noted |
| S5-211027 | 09/02/2021 14:00:07 | noted |
| S5-211028 | 09/02/2021 13:47:17 | postponed |
| S5-211029 | 09/02/2021 13:44:05 | noted |
| S5-211030 | 09/02/2021 13:54:36 | postponed |
| S5-211032 | 09/02/2021 15:33:35 | approved |
| S5-211034 | 09/02/2021 15:33:41 | approved |
| S5-211036 | 09/02/2021 14:24:42 | noted |
| S5-211037 | 09/02/2021 15:31:52 | noted |
| S5-211038 | 09/02/2021 14:37:07 | available |
| S5-211039 | 09/02/2021 14:37:16 | available |
| S5-211040 | 09/02/2021 15:31:57 | approved |
| S5-211044 | 10/02/2021 09:21:33 | approved |
| S5-211045 | 10/02/2021 09:21:34 | approved |
| S5-211047 | 10/02/2021 09:11:57 | agreed |
| S5-211048 | 09/02/2021 14:42:22 | agreed |
| S5-211049 | 09/02/2021 15:15:32 | agreed |
| S5-211050 | 09/02/2021 15:15:36 | agreed |
| S5-211051 | 09/02/2021 13:57:14 | noted |
| S5-211057 | 09/02/2021 14:43:18 | agreed |
| S5-211060 | 09/02/2021 14:43:37 | agreed |
| S5-211062 | 09/02/2021 15:10:16 | available |
| S5-211063 | 09/02/2021 15:10:19 | available |
| S5-211064 | 09/02/2021 15:10:25 | agreed |
| S5-211065 | 09/02/2021 15:10:25 | agreed |
| S5-211066 | 09/02/2021 14:58:44 | available |
| S5-211067 | 09/02/2021 15:25:57 | available |
| S5-211068 | 09/02/2021 15:26:01 | available |
| S5-211069 | 09/02/2021 15:27:08 | approved |
| S5-211070 | 09/02/2021 15:38:15 | noted |
| S5-211072 | 09/02/2021 16:04:41 | approved |
| S5-211073 | 09/02/2021 16:04:33 | approved |
| S5-211076 | 10/02/2021 09:22:35 | rejected |
| S5-211078 | 09/02/2021 14:24:54 | available |
| S5-211080 | 09/02/2021 15:13:31 | available |
| S5-211081 | 09/02/2021 14:25:06 | noted |
| S5-211084 | 04/02/2021 09:31:44 | available |
| S5-211085 | 09/02/2021 16:04:46 | noted |
| S5-211088 | 09/02/2021 13:53:58 | noted |
| S5-211093 | 09/02/2021 15:15:48 | available |
| S5-211095 | 10/02/2021 09:04:37 | available |
| S5-211096 | 10/02/2021 09:04:39 | available |
| S5-211101 | 09/02/2021 16:05:41 | noted |
| S5-211102 | 09/02/2021 15:15:58 | approved |
| S5-211103 | 09/02/2021 15:16:00 | approved |
| S5-211104 | 09/02/2021 15:16:04 | approved |
| S5-211105 | 09/02/2021 14:36:21 | noted |
| S5-211109 | 10/02/2021 09:23:32 | rejected |
| S5-211113 | 09/02/2021 16:45:56 | approved |
| S5-211117 | 09/02/2021 15:35:55 | noted |
| S5-211118 | 09/02/2021 16:46:07 | approved |
| S5-211119 | 09/02/2021 15:35:59 | noted |
| S5-211121 | 09/02/2021 16:40:40 | noted |
| S5-211123 | 10/02/2021 09:16:07 | noted |
| S5-211124 | 10/02/2021 09:12:03 | agreed |
| S5-211127 | 10/02/2021 09:12:21 | agreed |
| S5-211129 | 09/02/2021 15:22:59 | available |
| S5-211130 | 09/02/2021 15:23:06 | available |
| S5-211135 | 09/02/2021 16:05:47 | approved |
| S5-211136 | 09/02/2021 15:33:27 | noted |
| S5-211143 | 09/02/2021 14:57:58 | available |
| S5-211144 | 09/02/2021 14:58:02 | available |
| S5-211145 | 09/02/2021 15:09:58 | available |
| S5-211148 | 09/02/2021 16:41:05 | available |
| S5-211149 | 09/02/2021 15:19:41 | available |
| S5-211150 | 10/02/2021 08:53:49 | available |
| S5-211151 | 09/02/2021 15:19:49 | available |
| S5-211152 | 09/02/2021 15:20:05 | available |
| S5-211153 | 09/02/2021 16:03:05 | approved |
| S5-211157 | 09/02/2021 15:32:09 | available |
| S5-211160 | 09/02/2021 15:08:37 | noted |
| S5-211161 | 09/02/2021 15:19:54 | available |
| S5-211164 | 10/02/2021 09:06:00 | noted |
| S5-211165 | 10/02/2021 09:06:01 | noted |
| S5-211175 | 10/02/2021 09:13:01 | available |
| S5-211176 | 10/02/2021 09:13:05 | available |
| S5-211184 | 10/02/2021 09:17:50 | approved |
| S5-211187 | 10/02/2021 09:18:17 | approved |
| S5-211190 | 09/02/2021 15:20:12 | available |
| S5-211191 | 09/02/2021 13:54:56 | available |
| S5-211192 | 09/02/2021 13:46:35 | available |
| S5-211193 | 09/02/2021 15:28:32 | available |
| S5-211194 | 09/02/2021 15:28:40 | available |
| S5-211196 | 09/02/2021 15:30:08 | noted |
| S5-211198 | 09/02/2021 15:30:46 | noted |
| S5-211199 | 09/02/2021 15:17:57 | noted |
| S5-211200 | 10/02/2021 09:13:31 | agreed |
| S5-211201 | 09/02/2021 16:28:39 | available |
| S5-211202 | 10/02/2021 09:13:33 | agreed |
| S5-211205 | 09/02/2021 14:36:50 | noted |
| S5-211206 | 09/02/2021 15:30:16 | available |
| S5-211210 | 10/02/2021 09:13:49 | agreed |
| S5-211211 | 10/02/2021 09:13:49 | agreed |
| S5-211212 | 09/02/2021 14:33:06 | noted |
| S5-211215 | 09/02/2021 15:27:12 | available |
| S5-211216 | 09/02/2021 14:41:26 | agreed |
| S5-211217 | 09/02/2021 14:41:30 | agreed |
| S5-211218 | 09/02/2021 14:41:38 | available |
| S5-211219 | 09/02/2021 14:41:44 | available |
| S5-211221 | 09/02/2021 15:19:13 | approved |
| S5-211222 | 09/02/2021 15:18:49 | noted |
| S5-211223 | 09/02/2021 15:19:02 | noted |
| S5-211224 | 09/02/2021 15:19:06 | noted |
| S5-211225 | 09/02/2021 15:19:07 | noted |
| S5-211226 | 09/02/2021 15:22:29 | available |
| S5-211227 | 09/02/2021 15:22:35 | available |
| S5-211229 | 09/02/2021 15:18:16 | approved |
| S5-211231 | 09/02/2021 15:29:17 | available |
| S5-211232 | 09/02/2021 15:14:20 | approved |
| S5-211233 | 10/02/2021 09:08:55 | noted |
| S5-211234 | 09/02/2021 15:25:39 | available |
| S5-211237 | 09/02/2021 16:06:04 | approved |
| S5-211239 | 09/02/2021 16:03:46 | available |
| S5-211241 | 09/02/2021 15:30:56 | approved |
| S5-211242 | 09/02/2021 14:54:42 | available |
| S5-211243 | 09/02/2021 15:30:57 | approved |
| S5-211244 | 09/02/2021 15:30:58 | approved |
| S5-211246 | 09/02/2021 14:54:47 | available |
| S5-211247 | 09/02/2021 14:54:51 | available |
| S5-211248 | 08/02/2021 17:03:49 | revised |
| S5-211250 | 09/02/2021 14:50:19 | available |
| S5-211250 | 09/02/2021 14:51:00 | conditionally agreed |
| S5-211250 | 09/02/2021 16:28:59 | available |
| S5-211251 | 09/02/2021 14:51:06 | Conditionally agreed |
| S5-211252 | 09/02/2021 13:43:16 | postponed |
| S5-211256 | 09/02/2021 16:06:32 | noted |
| S5-211257 | 09/02/2021 15:35:05 | available |
| S5-211259 | 10/02/2021 09:05:41 | noted |
| S5-211262 | 10/02/2021 09:01:09 | agreed |
| S5-211267 | 10/02/2021 09:16:14 | agreed |
| S5-211272 | 10/02/2021 09:15:08 | available |
| S5-211273 | 10/02/2021 09:15:16 | available |
| S5-211274 | 10/02/2021 09:17:13 | available |
| S5-211276 | 10/02/2021 09:15:32 | agreed |
| S5-211277 | 10/02/2021 09:15:35 | available |
| S5-211280 | 10/02/2021 09:11:37 | noted |
| S5-211284 | 09/02/2021 16:07:18 | noted |
| S5-211285 | 09/02/2021 16:04:06 | noted |
| S5-211286 | 09/02/2021 15:14:00 | available |
| S5-211287 | 09/02/2021 15:29:55 | noted |
| S5-211288 | 09/02/2021 15:29:57 | available |
| S5-211289 | 09/02/2021 14:55:59 | available |
| S5-211293 | 10/02/2021 09:15:57 | agreed |
| S5-211294 | 10/02/2021 09:15:58 | agreed |
| S5-211295 | 10/02/2021 09:01:26 | agreed |
| S5-211296 | 10/02/2021 09:01:27 | agreed |
| S5-211297 | 10/02/2021 09:01:28 | agreed |
| S5-211299 | 09/02/2021 15:14:06 | available |
| S5-211300 | 09/02/2021 14:50:01 | noted |
| S5-211301 | 09/02/2021 15:17:30 | noted |
| S5-211308 | 09/02/2021 13:46:49 | available |
| S5-211309 | 09/02/2021 16:04:14 | approved |
| S5-211312 | 09/02/2021 14:52:54 | available |
| S5-211313 | 09/02/2021 14:52:57 | available |
| S5-211315 | 09/02/2021 15:17:17 | available |
| S5-211316 | 09/02/2021 15:13:14 | available |
| S5-211318 | 09/02/2021 15:13:17 | available |
| S5-211319 | 09/02/2021 14:33:57 | noted |
| S5-211321 | 09/02/2021 15:24:46 | available |
| S5-211322 | 09/02/2021 15:24:52 | available |
| S5-211323 | 09/02/2021 15:24:56 | agreed |
| S5-211324 | 09/02/2021 15:25:14 | approved |
| S5-211327 | 09/02/2021 14:53:06 | noted |
| S5-211328 | 09/02/2021 14:53:12 | available |
| S5-211329 | 09/02/2021 14:53:24 | available |
| S5-211330 | 09/02/2021 14:53:39 | available |
| S5-211331 | 09/02/2021 14:44:19 | agreed |
| S5-211334 | 01/02/2021 09:12:36 | withdrawn |
| S5-211335 | 09/02/2021 15:08:59 | available |
| S5-211336 | 09/02/2021 14:56:07 | noted |
| S5-211337 | 09/02/2021 16:28:46 | available |
| S5-211338 | 09/02/2021 14:36:00 | noted |
| S5-211340 | 10/02/2021 09:21:02 | approved |
| S5-211341 | 09/02/2021 14:56:30 | agreed |
| S5-211342 | 09/02/2021 14:56:31 | agreed |
| S5-211343 | 09/02/2021 14:56:31 | agreed |
| S5-211344 | 09/02/2021 14:56:32 | agreed |
| S5-211345 | 09/02/2021 14:24:10 | noted |
| S5-211346 | 09/02/2021 14:24:02 | postponed |
| S5-211347 | 09/02/2021 14:23:58 | postponed |
| S5-211348 | 09/02/2021 14:29:14 | available |
| S5-211349 | 09/02/2021 13:56:39 | available |
| S5-211350 | 09/02/2021 13:58:58 | approved |
| S5-211351 | 09/02/2021 14:52:44 | agreed |
| S5-211352 | 09/02/2021 14:42:04 | agreed |
| S5-211353 | 09/02/2021 14:42:12 | agreed |
| S5-211354 | 09/02/2021 15:22:16 | available |
| S5-211355 | 09/02/2021 15:17:06 | approved |
| S5-211356 | 09/02/2021 15:09:25 | approved |
| S5-211357 | 09/02/2021 15:09:37 | approved |
| S5-211358 | 09/02/2021 15:22:05 | approved |
| S5-211359 | 09/02/2021 15:09:07 | approved |
| S5-211360 | 09/02/2021 15:28:06 | noted |
| S5-211362 | 09/02/2021 14:38:15 | available |
| S5-211362 | 09/02/2021 14:40:08 | not pursued |
| S5-211363 | 09/02/2021 14:38:19 | available |
| S5-211363 | 09/02/2021 14:40:12 | not pursued |
| S5-211364 | 09/02/2021 16:40:02 | noted |
| S5-211365 | 10/02/2021 08:53:28 | approved |
| S5-211366 | 10/02/2021 08:54:00 | approved |
| S5-211367 | 09/02/2021 15:26:18 | agreed |
| S5-211368 | 10/02/2021 09:02:05 | agreed |
| S5-211369 | 10/02/2021 09:02:09 | agreed |
| S5-211370 | 10/02/2021 09:02:10 | agreed |
| S5-211371 | 10/02/2021 09:02:14 | agreed |
| S5-211372 | 10/02/2021 09:01:48 | agreed |
| S5-211373 | 10/02/2021 09:08:41 | approved |
| S5-211374 | 10/02/2021 09:02:15 | agreed |
| S5-211375 | 10/02/2021 09:01:36 | agreed |
| S5-211376 | 10/02/2021 09:08:43 | approved |
| S5-211377 | 10/02/2021 09:08:45 | approved |
| S5-211378 | 10/02/2021 09:05:50 | approved |
| S5-211379 | 10/02/2021 09:02:22 | agreed |
| S5-211380 | 10/02/2021 09:12:09 | agreed |
| S5-211381 | 10/02/2021 09:12:44 | agreed |
| S5-211382 | 10/02/2021 09:15:44 | agreed |
| S5-211383 | 10/02/2021 09:11:45 | approved |
| S5-211384 | 10/02/2021 09:15:48 | agreed |
| S5-211385 | 10/02/2021 09:22:45 | approved |
| S5-211386 | 10/02/2021 09:12:51 | agreed |
| S5-211387 | 10/02/2021 09:22:49 | approved |
| S5-211388 | 10/02/2021 09:08:14 | approved |
| S5-211389 | 10/02/2021 09:12:27 | agreed |
| S5-211390 | 10/02/2021 09:13:13 | agreed |
| S5-211391 | 10/02/2021 09:12:31 | agreed |
| S5-211392 | 10/02/2021 09:08:16 | approved |
| S5-211393 | 10/02/2021 09:13:20 | agreed |
| S5-211394 | 10/02/2021 09:08:18 | approved |
| S5-211395 | 10/02/2021 09:17:56 | approved |
| S5-211396 | 10/02/2021 09:17:59 | approved |
| S5-211397 | 10/02/2021 09:20:22 | approved |
| S5-211398 | 09/02/2021 14:47:50 | withdrawn |
| S5-211399 | 10/02/2021 09:08:23 | approved |
| S5-211400 | 10/02/2021 09:20:32 | approved |
| S5-211401 | 10/02/2021 09:01:54 | agreed |
| S5-211402 | 10/02/2021 09:03:02 | approved |
| S5-211403 | 10/02/2021 09:01:00 | agreed |
| S5-211404 | 10/02/2021 09:01:15 | agreed |
| S5-211405 | 10/02/2021 09:14:00 | agreed |
| S5-211406 | 10/02/2021 09:14:02 | agreed |
| S5-211407 | 10/02/2021 09:14:04 | agreed |
| S5-211408 | 10/02/2021 09:14:07 | agreed |
| S5-211411 | 10/02/2021 09:14:55 | agreed |
| S5-211412 | 10/02/2021 09:14:57 | agreed |
| S5-211413 | 10/02/2021 09:15:27 | agreed |
| S5-211414 | 10/02/2021 09:13:38 | agreed |
| S5-211415 | 10/02/2021 09:04:44 | approved |
| S5-211416 | 10/02/2021 09:21:20 | approved |
| S5-211417 | 10/02/2021 09:09:40 | approved |
| S5-211418 | 10/02/2021 09:21:21 | approved |
| S5-211419 | 10/02/2021 09:13:40 | agreed |
| S5-211420 | 10/02/2021 09:16:35 | agreed |
| S5-211421 | 10/02/2021 09:21:39 | approved |
| S5-211423 | 10/02/2021 09:09:04 | approved |
| S5-211424 | 10/02/2021 09:08:31 | approved |
| S5-211425 | 10/02/2021 09:02:32 | approved |
| S5-211426 | 10/02/2021 09:02:44 | approved |
| S5-211427 | 10/02/2021 09:21:45 | approved |
| S5-211428 | 10/02/2021 09:20:45 | approved |
| S5-211429 | 10/02/2021 09:12:17 | agreed |
| S5-211430 | 09/02/2021 15:13:51 | agreed |
| S5-211431 | 09/02/2021 15:23:18 | agreed |
| S5-211432 | 09/02/2021 14:42:55 | agreed |
| S5-211433 | 09/02/2021 14:42:59 | agreed |
| S5-211434 | 09/02/2021 16:06:45 | approved |
| S5-211435 | 09/02/2021 16:06:47 | approved |
| S5-211436 | 09/02/2021 16:06:52 | approved |
| S5-211437 | 09/02/2021 15:32:30 | available |
| S5-211438 | 09/02/2021 15:32:37 | approved |
| S5-211439 | 09/02/2021 15:33:10 | approved |
| S5-211440 | 09/02/2021 15:33:54 | approved |
| S5-211441 | 09/02/2021 15:25:45 | agreed |
| S5-211442 | 09/02/2021 17:02:36 | approved |
| S5-211443 | 09/02/2021 15:18:10 | approved |
| S5-211444 | 09/02/2021 15:29:43 | available |
| S5-211445 | 09/02/2021 15:19:20 | approved |
| S5-211446 | 09/02/2021 14:58:37 | approved |
| S5-211447 | 09/02/2021 16:02:39 | approved |
| S5-211448 | 09/02/2021 16:05:56 | available |
| S5-211449 | 09/02/2021 16:03:22 | approved |
| S5-211450 | 09/02/2021 16:07:34 | approved |
| S5-211451 | 09/02/2021 16:07:37 | approved |
| S5-211452 | 09/02/2021 16:07:40 | approved |
| S5-211453 | 09/02/2021 16:07:44 | approved |
| S5-211454 | 09/02/2021 16:07:50 | approved |
| S5-211455 | 09/02/2021 16:07:51 | approved |
| S5-211456 | 09/02/2021 14:40:33 | available |
| S5-211457 | 09/02/2021 14:40:36 | available |
| S5-211458 | 09/02/2021 13:43:33 | available |
| S5-211459 | 09/02/2021 15:18:26 | approved |
| S5-211460 | 09/02/2021 14:33:36 | noted |
| S5-211461 | 09/02/2021 13:54:21 | available |
| S5-211462 | 10/02/2021 09:14:27 | agreed |
| S5-211463 | 10/02/2021 09:14:33 | agreed |
| S5-211464 | 09/02/2021 13:31:22 | approved |
| S5-211465 | 09/02/2021 15:28:19 | agreed |
| S5-211466 | 09/02/2021 14:55:28 | agreed |
| S5-211467 | 09/02/2021 14:55:43 | agreed |
| S5-211468 | 09/02/2021 15:10:36 | agreed |
| S5-211469 | 09/02/2021 14:55:34 | agreed |
| S5-211470 | 09/02/2021 15:10:37 | agreed |
| S5-211471 | 09/02/2021 14:55:48 | agreed |
| S5-211472 | 09/02/2021 15:18:34 | approved |
| S5-211473 | 09/02/2021 16:04:18 | approved |
| S5-211474 | 09/02/2021 14:54:29 | agreed |
| S5-211475 | 09/02/2021 16:07:58 | approved |
| S5-211476 | 09/02/2021 16:07:07 | approved |
| S5-211477 | 09/02/2021 16:07:09 | approved |
| S5-211478 | 09/02/2021 13:48:42 | approved |
| S5-211479 | 09/02/2021 14:56:59 | approved |
| S5-211480 | 09/02/2021 14:55:14 | agreed |
| S5-211481 | 09/02/2021 14:37:50 | agreed |
| S5-211482 | 09/02/2021 14:37:55 | agreed |
| S5-211483 | 09/02/2021 16:03:56 | approved |
| S5-211484 | 09/02/2021 16:04:24 | approved |
| S5-211485 | 09/02/2021 16:04:53 | approved |
| S5-211486 | 09/02/2021 16:05:14 | approved |
| S5-211487 | 09/02/2021 15:23:50 | approved |
| S5-211488 | 09/02/2021 15:29:34 | agreed |
| S5-211489 | 09/02/2021 15:29:03 | agreed |
| S5-211490 | 09/02/2021 15:29:04 | agreed |
| S5-211491 | 09/02/2021 14:41:04 | agreed |
| S5-211492 | 09/02/2021 14:41:09 | agreed |
| S5-211493 | 09/02/2021 14:41:15 | agreed |
| S5-211494 | 09/02/2021 14:57:03 | approved |
| S5-211495 | 09/02/2021 14:57:06 | approved |
| S5-211496 | 09/02/2021 14:57:12 | approved |
| S5-211497 | 09/02/2021 14:57:15 | approved |
| S5-211498 | 09/02/2021 14:57:21 | approved |
| S5-211499 | 09/02/2021 14:57:25 | approved |
| S5-211500 | 09/02/2021 16:02:57 | approved |
| S5-211501 | 09/02/2021 15:29:24 | agreed |
| S5-211502 | 09/02/2021 16:06:09 | approved |
| S5-211503 | 09/02/2021 16:06:13 | approved |
| S5-211504 | 09/02/2021 15:08:45 | approved |
| S5-211505 | 09/02/2021 15:08:49 | approved |
| S5-211506 | 09/02/2021 15:35:45 | approved |
| S5-211507 | 09/02/2021 15:34:27 | approved |
| S5-211508 | 09/02/2021 15:34:39 | approved |
| S5-211509 | 09/02/2021 16:08:20 | approved |
| S5-211510 | 09/02/2021 15:15:23 | approved |
| S5-211511 | 09/02/2021 15:31:39 | approved |
| S5-211512 | 09/02/2021 13:44:40 | approved |
| S5-211513 | 09/02/2021 15:35:35 | approved |
| S5-211513 | 09/02/2021 16:46:01 | withdrawn |
| S5-211514 | 09/02/2021 15:35:36 | approved |
| S5-211515 | 09/02/2021 15:34:16 | approved |
| S5-211516 | 09/02/2021 15:34:43 | approved |
| S5-211517 | 09/02/2021 16:46:16 | withdrawn |
| S5-211518 | 09/02/2021 15:36:13 | approved |
| S5-211519 | 09/02/2021 15:38:35 | approved |
| S5-211520 | 09/02/2021 16:08:38 | approved |
| S5-211521 | 09/02/2021 13:49:34 | approved |
| S5-211522 | 09/02/2021 09:15:03 | withdrawn |
| S5-211523 | 09/02/2021 15:19:33 | available |
| S5-211524 | 08/02/2021 16:28:05 | approved |
| S5-211524 | 09/02/2021 13:30:26 | noted |
| S5-211525 | 08/02/2021 16:30:19 | approved |
| S5-211526 | 09/02/2021 13:44:15 | noted |
| S5-211527 | 09/02/2021 14:35:41 | agreed |
| S5-211528 | 09/02/2021 14:42:42 | agreed |
| S5-211529 | 09/02/2021 14:43:52 | agreed |
| S5-211530 | 09/02/2021 14:34:30 | agreed |
| S5-211531 | 09/02/2021 15:21:52 | available |
| S5-211532 | 09/02/2021 14:50:14 | agreed |
| S5-211533 | 09/02/2021 16:11:39 | available |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-211035 | Rel-17 CR TS 28.310 Add introductory text to EE KPIs for network slices | Orange, AT&T, Deutsche Telekom | 28.310 | 0008 | - | Rel-17 | B | EE5GPLUS | revised |
| S5-211441 | Rel-17 CR TS 28.310 Add introductory text to EE KPIs for network slices | Orange, AT&T, Deutsche Telekom | 28.310 | 0008 | 1 | Rel-17 | B | EE5GPLUS | agreed |
| S5-211041 | Rel-16 CR TS 28.310 Introducing the ES probing procedure | KPN N.V. | 28.310 | 0009 | - | Rel-16 | F | EE\_5G | revised |
| S5-211480 | Rel-16 CR TS 28.310 Introducing the ES probing procedure | KPN N.V. | 28.310 | 0009 | 1 | Rel-16 | F | EE\_5G | agreed |
| S5-211129 | Add PCI related measurement | Intel Deutschland GmbH | 28.313 | 0012 | - | Rel-16 | F | eSON\_5G | not pursued |
| S5-211130 | Add PCI related measurement | Intel Deutschland GmbH | 28.313 | 0013 | - | Rel-17 | A | eSON\_5G | not pursued |
| S5-211226 | Rel-17 CR TS 28.313 update procedure for plug and connect to management system | Huawei,China Telecom | 28.313 | 0014 | - | Rel-17 | B | eSON\_5G | not pursued |
| S5-211067 | Rel-17 CR 28.530 Add DMS use cases and requirements | Huawei | 28.530 | 0038 | - | Rel-17 | B | 5GDMS | not pursued |
| S5-211199 | Add ANL high level features | Huawei Telecommunication India | 28.530 | 0039 | - | Rel-17 | B | ANL | noted |
| S5-211201 | Add requirements of closed loop SLS assurance | Huawei Telecommunication India | 28.530 | 0040 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211312 | Rel-16 cleanup concepts of network slice buisness model | Nokia, Nokia Shanghai Bell, Telefónica S.A. | 28.530 | 0041 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211313 | Rel-17 cleanup concepts of network slice buisness model | Nokia, Nokia Shanghai Bell, Telefónica S.A. | 28.530 | 0042 | - | Rel-17 | A | TEI16 | not pursued |
| S5-211048 | Rel-16 CR TS 28.531 Correction of URI of Resource | China Mobile Com. Corporation | 28.531 | 0060 | - | Rel-16 | F | TEI16 | agreed |
| S5-211090 | Rel-16 CR 28.531 Correction of NSI and NSSI Operations | Ericsson LM | 28.531 | 0061 | - | Rel-16 | F | TEI16 | revised |
| S5-211528 | Rel-16 CR 28.531 Correction of NSI and NSSI Operations | Ericsson LM | 28.531 | 0061 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211242 | Rel-16 CR 28.532 Correct definitions for the File MnS (stage 2) | Nokia, Nokia Shanghai Bell | 28.532 | 0163 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-211246 | Rel-16 CR 28.532 Correct definitions for the File MnS (REST SS) | Nokia; Nokia Shanghai Bell | 28.532 | 0164 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-211247 | Rel-16 CR 28.532 Correct definitions for the File MnS (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.532 | 0165 | - | Rel-16 | F | 5G\_SLICE\_ePA | not pursued |
| S5-211248 | Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2) | Nokia, Nokia Shanghai Bell | 28.532 | 0166 | - | Rel-16 | F | 5G\_SLICE\_ePA | revised |
| S5-211532 | Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2) | Nokia, Nokia Shanghai Bell | 28.532 | 0166 | 1 | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-211344 | Rel-16 fix compilation error in 28532 | Nokia, Nokia Shanghai Bell | 28.532 | 0167 | - | Rel-16 | F | TEI16 | agreed |
| S5-211058 | Rel-16 CR 28.533 Fix errors in Exposure Governance description | Huawei | 28.533 | 0077 | - | Rel-16 | A | TEI15 | revised |
| S5-211432 | Rel-16 CR 28.533 Fix errors in Exposure Governance description | Huawei | 28.533 | 0077 | 1 | Rel-16 | A | TEI15 | agreed |
| S5-211059 | Rel-15 CR 28.533 Fix errors in Exposure Governance description | Huawei | 28.533 | 0078 | - | Rel-15 | F | TEI15 | revised |
| S5-211433 | Rel-15 CR 28.533 Fix errors in Exposure Governance description | Huawei | 28.533 | 0078 | 1 | Rel-15 | F | TEI15 | agreed |
| S5-211068 | Rel-17 CR 28.533 Remove DMS use case and requirements | Huawei | 28.533 | 0079 | - | Rel-17 | B | 5GDMS | not pursued |
| S5-211215 | TS28.533 Add Management Service Type | China Mobile Com. Corporation | 28.533 | 0080 | - | Rel-17 | C | 5GDMS | not pursued |
| S5-211149 | Rel-17 CR TS 28.535 MnS types for closed control loop | Huawei Technologies Japan K.K. | 28.535 | 0023 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211161 | Rel-17 CR TS 28.535 Configure policies of control loop | Huawei Technologies France | 28.535 | 0024 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211190 | Rel-17 CR TS 28.535 add relationship between control loop and Communication service and NetworkSlice LCM | Huawei Technologies France | 28.535 | 0025 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211328 | Rel 16 CR TS 28.535 Update use cases and requirements to replace communication service | Ericsson LM, Deutsche Telekom | 28.535 | 0026 | - | Rel-16 | F | COSLA | not pursued |
| S5-211329 | Rel 17 CR TS 28.535 Update use cases and requirements to replace communication service | Ericsson LM, Deutsche Telekom | 28.535 | 0027 | - | Rel-17 | A | COSLA | not pursued |
| S5-211330 | Rel 16 CR TS 28.535 Remove use cases and requirements with no solution | Ericsson LM, Deutsche Telekom | 28.535 | 0028 | - | Rel-16 | F | COSLA | not pursued |
| S5-211333 | Rel 16 CR TS 28.535 Clarify intelligence in clause 4 | Ericsson LM, Deutsche Telekom | 28.535 | 0029 | - | Rel-16 | F | COSLA | revised |
| S5-211474 | Rel 16 CR TS 28.535 Clarify intelligence in clause 4 | Ericsson LM, Deutsche Telekom | 28.535 | 0029 | 1 | Rel-16 | F | COSLA | agreed |
| S5-211354 | Rel 17 CR TS 28.535 Add use cases left from rel-16 | Ericsson LM | 28.535 | 0030 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211057 | Rel-16 CR 28.536 Remove conflicting attribute definitions | Huawei | 28.536 | 0017 | - | Rel-16 | F | COSLA | agreed |
| S5-211060 | Rel-16 CR 28.536 Clarify modelling of AssuranceGoal | Huawei | 28.536 | 0018 | - | Rel-16 | F | COSLA | agreed |
| S5-211061 | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM | Huawei | 28.536 | 0019 | - | Rel-16 | F | COSLA | revised |
| S5-211522 | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM | Huawei, Ericsson | 28.536 | 0019 | 1 | Rel-16 | F | COSLA | withdrawn |
| S5-211529 | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM | Huawei, Ericsson | 28.536 | 0019 | 2 | Rel-16 | F | COSLA | agreed |
| S5-211151 | Rel-17 CR TS 28.536 Add assurance policy for closed control loop | Huawei Technologies Japan K.K. | 28.536 | 0020 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211152 | Rel-17 CR TS 28.536 Add assurance report for closed control loop | Huawei Technologies Japan K.K. | 28.536 | 0021 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-211331 | Rel 16 CR TS 28.536 Remove overview from stage 2 description | Ericsson LM, Deutsche Telekom | 28.536 | 0022 | - | Rel-16 | F | COSLA | agreed |
| S5-211337 | Rel 16 CR TS 28.536 add explanation for Entities in loop | Lenovo Mobile Com. Technology | 28.536 | 0023 | - | Rel-16 | F | COSLA | not pursued |
| S5-211258 | Rel-17 CT 28.537 Add requirements for File Management | Nokia, Nokia Shanghai Bell | 28.537 | 0001 | - | Rel-17 | B | TEI16 | withdrawn |
| S5-211281 | Rel-17 CT 28.537 Add requirements for Management Data Management | Nokia, Nokia Shanghai Bell | 28.537 | 0002 | - | Rel-17 | B | MADCOL | withdrawn |
| S5-211367 | Rel-17 CR 28.537 Add DMS use cases and requirements | Huawei Technologies Sweden AB | 28.537 | 0003 | - | Rel-17 | B | 5GDMS | agreed |
| S5-211038 | Rel-16 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction | Ericsson, Orange | 28.541 | 0426 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211039 | Rel-17 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction | Ericsson, Orange | 28.541 | 0427 | - | Rel-17 | A | TEI16 | not pursued |
| S5-211055 | Rel-16 CR TS 28.541 Missing attribute in YANG definitions | Orange | 28.541 | 0428 | - | Rel-16 | F | eNRM | withdrawn |
| S5-211091 | Rel-16 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | 28.541 | 0429 | - | Rel-16 | F | TEI16 | revised |
| S5-211362 | Rel-16 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | 28.541 | 0429 | 1 | Rel-16 | F | eNRM | conditionally agreed |
| S5-211092 | Rel-17 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | 28.541 | 0430 | - | Rel-17 | A | TEI16 | revised |
| S5-211363 | Rel-17 CR 28.541 Correction of ServiceProfile attributes | Ericsson LM | 28.541 | 0430 | 1 | Rel-17 | A | eNRM | conditionally agreed |
| S5-211110 | Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | 28.541 | 0431 | - | Rel-16 | F | eNRM | revised |
| S5-211481 | Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | 28.541 | 0431 | 1 | Rel-16 | F | eNRM | agreed |
| S5-211112 | Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | 28.541 | 0432 | - | Rel-17 | A | eNRM | revised |
| S5-211482 | Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA2 | Intel Finland Oy | 28.541 | 0432 | 1 | Rel-17 | A | eNRM | agreed |
| S5-211131 | Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | 28.541 | 0433 | - | Rel-15 | F | NETSLICE-5GNRM | revised |
| S5-211491 | Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | 28.541 | 0433 | 1 | Rel-15 | F | NETSLICE-5GNRM | agreed |
| S5-211132 | Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | 28.541 | 0434 | - | Rel-16 | A | NETSLICE-5GNRM | revised |
| S5-211492 | Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | 28.541 | 0434 | 1 | Rel-16 | A | NETSLICE-5GNRM | agreed |
| S5-211133 | Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | 28.541 | 0435 | - | Rel-17 | A | NETSLICE-5GNRM | revised |
| S5-211493 | Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU | China Telecommunications, Huawei | 28.541 | 0435 | 1 | Rel-17 | A | NETSLICE-5GNRM | agreed |
| S5-211143 | Rel-17 CR 28.541 Add positioning support in ServiceProfile | Huawei, China Mobile | 28.541 | 0436 | - | Rel-17 | B | EMA5SLA | not pursued |
| S5-211144 | Rel-17 CR 28.541 Add synchronicity support in ServiceProfile | Huawei, China Mobile | 28.541 | 0437 | - | Rel-17 | B | EMA5SLA | not pursued |
| S5-211191 | YANG NRM for Network Slicing | Cisco Systems Belgium | 28.541 | 0438 | - | Rel-17 | A | eNRM | not pursued |
| S5-211216 | Rel-16 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs | Huawei | 28.541 | 0439 | - | Rel-16 | F | eNRM | agreed |
| S5-211217 | Rel-17 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs | Huawei | 28.541 | 0440 | - | Rel-17 | A | eNRM | agreed |
| S5-211218 | Rel-16 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM | Huawei | 28.541 | 0441 | - | Rel-16 | F | eNRM | conditionally agreed |
| S5-211219 | Rel-17 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM | Huawei | 28.541 | 0442 | - | Rel-17 | A | eNRM | conditionally agreed |
| S5-211288 | Rel-17 CR TS 28.541 RAN Sharing support MOCN | Ericsson LM | 28.541 | 0443 | - | Rel-17 | B | MANS | not pursued |
| S5-211310 | Rel-16 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | 28.541 | 0444 | - | Rel-16 | F | TEI16 | revised |
| S5-211456 | Rel-16 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | 28.541 | 0444 | 1 | Rel-16 | F | TEI16 | conditionally agreed |
| S5-211311 | Rel-17 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | 28.541 | 0445 | - | Rel-17 | A | TEI16 | revised |
| S5-211457 | Rel-17 fix containment relationship for EP\_Transport IOC | Nokia, Nokia Shanghai Bell | 28.541 | 0445 | 1 | Rel-17 | A | TEI16 | conditionally agreed |
| S5-211315 | add tenant information in NRM | Nokia, Nokia Shanghai Bell | 28.541 | 0446 | - | Rel-17 | B | eMEMTANE | not pursued |
| S5-211316 | Correct NR endpoint classes containment in YANG | Ericsson Hungary Ltd | 28.541 | 0447 | - | Rel-16 | F | eNRM | conditionally agreed |
| S5-211318 | Correct NR endpoint classes containment in YANG | Ericsson Hungary Ltd | 28.541 | 0448 | - | Rel-17 | A | eNRM | conditionally agreed |
| S5-211335 | Rel-17 TS 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA | Ericsson LM, Deutsche Telekom | 28.541 | 0449 | - | Rel-17 | C | EMA5SLA | not pursued |
| S5-211341 | Rel-16 fix compilation error in 28541 | Nokia, Nokia Shanghai Bell | 28.541 | 0450 | - | Rel-16 | F | TEI16 | agreed |
| S5-211342 | Rel-17 fix compilation error in 28541 | Nokia, Nokia Shanghai Bell | 28.541 | 0451 | - | Rel-17 | A | TEI16 | agreed |
| S5-211349 | YANG NRM for Network Slicing | Cisco Systems Belgium | 28.541 | 0452 | - | Rel-16 | F | eNRM | not pursued |
| S5-211352 | Correct YANG errors | Ericsson Hungary Ltd | 28.541 | 0453 | - | Rel-16 | F | eNRM | agreed |
| S5-211353 | Correct YANG errors | Ericsson Hungary Ltd | 28.541 | 0454 | - | Rel-17 | A | eNRM | agreed |
| S5-211422 | RAN Sharing support MOCN | Ericsson LM | 28.541 | 0455 | - | Rel-17 | B | MANS | withdrawn |
| S5-211289 | Rel-16 CR 28.545 Add missing Alarm Requirements and Use Cases | Ericsson LM | 28.545 | 0009 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211049 | Rel-17 CR TS 28.552 Addition of SMS message delivery related measurements for SMSF | China Mobile Com. Corporation | 28.552 | 0282 | - | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-211050 | Rel-17 CR TS 28.552 Addition of Registration measurements for SMSF | China Mobile Com. Corporation | 28.552 | 0283 | - | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-211052 | Rel-17 CR TS 28.552 Add PLMN granularity for number of active UEs measurements | China Telecommunications | 28.552 | 0284 | - | Rel-17 | B | MANS | revised |
| S5-211489 | Rel-17 CR TS 28.552 Add PLMN granularity for number of active UEs measurements | China Telecommunications | 28.552 | 0284 | 1 | Rel-17 | B | MANS | agreed |
| S5-211053 | Rel-17 CR TS 28.552 Add PLMN granularity for packet delay measurements | China Telecommunications | 28.552 | 0285 | - | Rel-17 | B | MANS | revised |
| S5-211490 | Rel-17 CR TS 28.552 Add PLMN granularity for packet delay measurements | China Telecommunications | 28.552 | 0285 | 1 | Rel-17 | B | MANS | agreed |
| S5-211235 | Add PLMN granularity for Radio resource utilization measurements | China Unicom, ZTE, HUAWEI | 28.552 | 0286 | - | Rel-17 | B | MANS | revised |
| S5-211501 | Add PLMN granularity for Radio resource utilization measurements | China Unicom, ZTE, HUAWEI | 28.552 | 0286 | 1 | Rel-17 | B | MANS | agreed |
| S5-211322 | CHO measurements | Ericsson France S.A.S | 28.552 | 0287 | - | Rel-17 | B | E\_HOO | not pursued |
| S5-211157 | Rel-17 CR 28.554 Add Resource Consumption KPI for NF and 5GC | China Telecom Corporation Ltd. | 28.554 | 0072 | - | Rel-17 | B | EE5GPLUS | not pursued |
| S5-211234 | Rel-17 CR TS 28.544 Enlarge scope of the EE KPI for eMBB | Orange | 28.554 | 0073 | - | Rel-17 | B | EE5GPLUS | not pursued |
| S5-211323 | CHO measurements KPI | Ericsson France S.A.S | 28.554 | 0074 | - | Rel-17 | B | E\_HOO | agreed |
| S5-211250 | Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0096 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211533 | Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2) | Nokia, Nokia Shanghai Bell | 28.622 | 0096 | 1 | Rel-16 | F | TEI16 | conditionally agreed |
| S5-211251 | Rel-16 CR 28.623 Replace legacy IRPAgent with MnsAgent (stage 3) | Nokia, Nokia Shanghai Bell | 28.623 | 0119 | - | Rel-16 | F | TEI16 | Conditionally agreed |
| S5-211299 | Correct NtfSubscriptionControl containment in YANG | Ericsson Hungary Ltd | 28.623 | 0120 | - | Rel-16 | F | eNRM | conditionally agreed |
| S5-211343 | Rel-16 fix compilation error in 28623 | Nokia, Nokia Shanghai Bell | 28.623 | 0121 | - | Rel-16 | F | TEI16 | agreed |
| S5-211351 | Correcting YANG errors | Ericsson Hungary Ltd | 28.623 | 0122 | - | Rel-16 | F | eNRM | agreed |
| S5-211156 | Rel-17 CR TS 32.130 Update the scope and background of network sharing scenarios | China Telecommunications, China Unicom, Huawei | 32.130 | 0003 | - | Rel-17 | B | MANS | revised |
| S5-211465 | Rel-17 CR TS 32.130 Update the scope and background of network sharing scenarios | China Telecommunications, China Unicom, Huawei, ZTE | 32.130 | 0003 | 1 | Rel-17 | B | MANS | agreed |
| S5-211193 | Rel-17 CR TS 32.130 update the scope to support 5G network sharing | ZTE Corporation | 32.130 | 0004 | - | Rel-17 | B | MANS | merged |
| S5-211194 | Rel-17 CR TS 32.130 update the concept | ZTE Corporation | 32.130 | 0005 | - | Rel-17 | B | MANS | merged |
| S5-211195 | Rel-17 CR TS 32.130 update the business requirements | ZTE Corporation | 32.130 | 0006 | - | Rel-17 | B | MANS | revised |
| S5-211488 | Rel-17 CR TS 32.130 update the business requirements | ZTE Corporation | 32.130 | 0006 | 1 | Rel-17 | B | MANS | agreed |
| S5-211206 | Rel-17 CR TS 32.130 add NG-RAN sharing deployment example in Annex | ZTE Corporation | 32.130 | 0007 | - | Rel-17 | F | MANS | not pursued |
| S5-211078 | Rel-17 CR TS 32.160 Update on template for requirement specifications | Huawei | 32.160 | 0013 | - | Rel-17 | C | METHOGY, TEI17 | not pursued |
| S5-211084 | YANG containment mapping | Ericsson Hungary Ltd | 32.160 | 0014 | - | Rel-17 | C | adNRM | not pursued |
| S5-211430 | YANG containment mapping | Ericsson Hungary Ltd | 32.160 | 0015 | - | Rel-17 | C | adNRM | agreed |
| S5-211173 | Rel-16 CR 32.240 Correct the definition of billing domain | Huawei | 32.240 | 0414 | - | Rel-16 | F | TEI16 | revised |
| S5-211381 | Rel-16 CR 32.240 Correct the definition of billing domain | Huawei | 32.240 | 0414 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211174 | Rel-17 CR 32.240 Correct the definition of billing domain | Huawei | 32.240 | 0415 | - | Rel-17 | A | TEI16 | revised |
| S5-211386 | Rel-17 CR 32.240 Correct the definition of billing domain | Huawei | 32.240 | 0415 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-211177 | Rel-16 CR 32.240 Correct the charging architecture | Huawei | 32.240 | 0416 | - | Rel-16 | F | TEI16 | revised |
| S5-211390 | Rel-16 CR 32.240 Correct the charging architecture | Huawei | 32.240 | 0416 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211178 | Rel-17 CR 32.240 Correct the charging architecture | Huawei | 32.240 | 0417 | - | Rel-17 | A | TEI16 | revised |
| S5-211393 | Rel-17 CR 32.240 Correct the charging architecture | Huawei | 32.240 | 0417 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-211124 | Rel-16 CR 32.254 Correction on applicable scenarios and flows | Nokia, Nokia Shanghai Bell | 32.254 | 0013 | - | Rel-16 | F | 5GS\_Ph1\_NEFCH | agreed |
| S5-211125 | Rel-16 CR 32.254 Correction on different identities | Nokia, Nokia Shanghai Bell | 32.254 | 0014 | - | Rel-16 | F | 5GS\_Ph1\_NEFCH | revised |
| S5-211380 | Rel-16 CR 32.254 Correction on different identities | Nokia, Nokia Shanghai Bell | 32.254 | 0014 | 1 | Rel-16 | F | 5GS\_Ph1\_NEFCH | agreed |
| S5-211126 | Rel-16 CR 32.254 Correction on Multiple Unit Usage | Nokia, Nokia Shanghai Bell | 32.254 | 0015 | - | Rel-16 | F | 5GS\_Ph1\_NEFCH | revised |
| S5-211429 | Rel-16 CR 32.254 Correction on Multiple Unit Usage | Nokia, Nokia Shanghai Bell | 32.254 | 0015 | 1 | Rel-16 | F | 5GS\_Ph1\_NEFCH | agreed |
| S5-211127 | Rel-16 CR 32.254 Correction on binding description | Nokia, Nokia Shanghai Bell | 32.254 | 0016 | - | Rel-16 | F | 5GS\_Ph1\_NEFCH | agreed |
| S5-211171 | Rel-16 CR 32.255 correct steps in I\_SMF change | Huawei | 32.255 | 0270 | - | Rel-16 | F | ETSUN | revised |
| S5-211389 | Rel-16 CR 32.255 correct steps in V\_SMF change | Huawei | 32.255 | 0270 | 1 | Rel-16 | F | ETSUN | agreed |
| S5-211172 | Rel-17 CR 32.255 correct steps in I\_SMF change | Huawei | 32.255 | 0271 | - | Rel-17 | A | ETSUN | revised |
| S5-211391 | Rel-17 CR 32.255 correct steps in I\_SMF change | Huawei | 32.255 | 0271 | 1 | Rel-17 | A | ETSUN | agreed |
| S5-211175 | Rel-16 CR 32.255 Clarify the mechanism for triggers | Huawei | 32.255 | 0272 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211176 | Rel-17 CR 32.255 Clarify the mechanism for triggers | Huawei | 32.255 | 0273 | - | Rel-17 | A | TEI16 | not pursued |
| S5-211179 | Rel-17 CR 32.255 Add the PDU Modification and Release Message Flow | Huawei | 32.255 | 0274 | - | Rel-17 | B | 5G\_URLLC | revised |
| S5-211368 | Rel-17 CR 32.255 Add the PDU Modification and Release Message Flow | Huawei | 32.255 | 0274 | 1 | Rel-17 | B | 5G\_URLLC | agreed |
| S5-211180 | Rel-17 CR 32.255 Add PDU Modification and Release Message Flow for URLLC Charging | Huawei | 32.255 | 0275 | - | Rel-17 | B | 5G\_URLLC | revised |
| S5-211369 | Rel-17 CR 32.255 Add PDU Modification and Release Message Flow for URLLC Charging | Huawei | 32.255 | 0275 | 1 | Rel-17 | B | 5G\_URLLC | agreed |
| S5-211181 | Rel-17 CR 32.255 Add the Quota Management for URLLC Charging | Huawei | 32.255 | 0276 | - | Rel-17 | B | 5G\_URLLC | revised |
| S5-211370 | Rel-17 CR 32.255 Add the Quota Management for URLLC Charging | Huawei | 32.255 | 0276 | 1 | Rel-17 | B | 5G\_URLLC | agreed |
| S5-211182 | Rel-17 CR 32.255 Add the Usage Reporting for URLLC Charging | Huawei | 32.255 | 0277 | - | Rel-17 | B | 5G\_URLLC | revised |
| S5-211371 | Rel-17 CR 32.255 Add the Usage Reporting for URLLC Charging | Huawei | 32.255 | 0277 | 1 | Rel-17 | B | 5G\_URLLC | agreed |
| S5-211183 | Rel-17 CR 32.255 Add Charging Information for URLLC Charging | Huawei | 32.255 | 0278 | - | Rel-17 | B | 5G\_URLLC | revised |
| S5-211374 | Rel-17 CR 32.255 Add Charging Information for URLLC Charging | Huawei | 32.255 | 0278 | 1 | Rel-17 | B | 5G\_URLLC | agreed |
| S5-211200 | Rel-16 CR 32.255 Correction of V-SMF Change in Roaming HR - flows | China Mobile Com. Corporation | 32.255 | 0279 | - | Rel-16 | F | ETSUN | agreed |
| S5-211202 | Rel-17 CR 32.255 Correction of V-SMF Change in Roaming HR - flows | China Mobile Com. Corporation | 32.255 | 0280 | - | Rel-17 | A | ETSUN | agreed |
| S5-211203 | Rel-16 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | 32.255 | 0281 | - | Rel-16 | F | TEI16 | revised |
| S5-211414 | Rel-16 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | 32.255 | 0281 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211204 | Rel-17 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | 32.255 | 0282 | - | Rel-17 | A | TEI17 | revised |
| S5-211419 | Rel-17 CR 32.255 Correction of PDU Session Information | China Mobile Com. Corporation | 32.255 | 0282 | 1 | Rel-17 | A | TEI17 | agreed |
| S5-211271 | Rel-16 CR TS 32.255 Correcting missing handover cancel in table | Ericsson LM | 32.255 | 0283 | - | Rel-16 | F | TEI16 | revised |
| S5-211411 | Rel-16 CR TS 32.255 Correcting missing handover cancel in table | Ericsson LM | 32.255 | 0283 | 1 | Rel-16 | F | 5GIEPC\_CH | agreed |
| S5-211272 | Rel-16 CR TS 32.255 Correcting missing ECGI and TAI in table | Ericsson LM | 32.255 | 0284 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211412 | Rel-17 CR TS 32.255 Correcting missing handover cancel in table | Ericsson LM | 32.255 | 0285 | - | Rel-17 | A | 5GIEPC\_CH | agreed |
| S5-211047 | Rel-16 CR 32.260 Removal of IMS service based charging interface | Matrixx | 32.260 | 0409 | - | Rel-16 | F | 5GSIMSCH | agreed |
| S5-211162 | Rel-17 CR 32.260 add IMS offline only charging information | Huawei | 32.260 | 0410 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-211372 | Rel-17 CR 32.260 add IMS offline only charging information | Huawei | 32.260 | 0410 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211260 | Rel-17 CR TS 32.260 Moving offline only to offline clause | Ericsson LM | 32.260 | 0411 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-211401 | Rel-17 CR TS 32.260 Moving offline only to offline clause | Ericsson LM | 32.260 | 0411 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211261 | Rel-17 CR TS 32.260 Update of converged charging trigger tables using IMS node | Ericsson LM | 32.260 | 0412 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-211403 | Rel-17 CR TS 32.260 Update of converged charging trigger tables using IMS node | Ericsson LM | 32.260 | 0412 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211262 | Rel-17 CR TS 32.260 Addition of converged charging IMS information | Ericsson LM | 32.260 | 0413 | - | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211295 | Rel-17 CR 32.260 Introduction of CHF framework in the scope | Nokia, Nokia Shanghai Bell | 32.260 | 0414 | - | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211296 | Rel-17 CR 32.260 Clarify Charging service selection | Nokia, Nokia Shanghai Bell | 32.260 | 0415 | - | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211297 | Rel-17 CR 32.275 Introduction of CHF framework in the scope | Nokia, Nokia Shanghai Bell | 32.275 | 0078 | - | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211298 | Rel-17 CR 32.275 Introduce Post Event Charging (PEC) | Nokia, Nokia Shanghai Bell | 32.275 | 0079 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-211375 | Rel-17 CR 32.275 Introduce Post Event Charging (PEC) | Nokia, Nokia Shanghai Bell | 32.275 | 0079 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211263 | Rel-17 CR TS 32.281 Addition of multiple unit information content | Ericsson LM | 32.281 | 0009 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-211404 | Rel-17 CR TS 32.281 Addition of multiple unit information content | Ericsson LM | 32.281 | 0009 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-211210 | Rel-16 CR 32.290 Correction on coverged session based charging | CATT | 32.290 | 0145 | - | Rel-16 | F | TEI16 | agreed |
| S5-211211 | Rel-17 CR 32.290 Correction on coverged session based charging | CATT | 32.290 | 0146 | - | Rel-17 | A | TEI17 | agreed |
| S5-211290 | Rel-17 CR 32.290 Add the TS reference for PGW | Nokia, Nokia Shanghai Bell | 32.290 | 0147 | - | Rel-17 | B | TEI17\_NIESGU | revised |
| S5-211379 | Rel-17 CR 32.290 Add the TS reference for PGW | Nokia, Nokia Shanghai Bell | 32.290 | 0147 | 1 | Rel-17 | B | TEI17\_NIESGU | agreed |
| S5-211291 | Rel-16 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | 32.290 | 0148 | - | Rel-16 | F | 5GS\_NSMCH | revised |
| S5-211382 | Rel-16 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | 32.290 | 0148 | 1 | Rel-16 | F | 5GS\_NSMCH | agreed |
| S5-211292 | Rel-17 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | 32.290 | 0149 | - | Rel-17 | A | 5GS\_NSMCH | revised |
| S5-211384 | Rel-17 CR 32.290 Correction on missing NS charging NF Consumers | Nokia, Nokia Shanghai Bell | 32.290 | 0149 | 1 | Rel-17 | A | 5GS\_NSMCH | agreed |
| S5-211293 | Rel-16 CR 32.290 Correction on Supported Features attribute | Nokia, Nokia Shanghai Bell | 32.290 | 0150 | - | Rel-16 | F | TEI16 | agreed |
| S5-211294 | Rel-17 CR 32.290 Correction on Supported Features attribute | Nokia, Nokia Shanghai Bell | 32.290 | 0151 | - | Rel-17 | A | TEI16 | agreed |
| S5-211148 | Rel-17 CR 32.291 Adding IMS Information in converged charging | China Mobile | 32.291 | 0305 | - | Rel-17 | B | 5GSIMSCH | not pursued |
| S5-211214 | Rel-16 CR 32.291 Missing eventLimit in trigger and OpenAPI | China Mobile Com. Corporation | 32.291 | 0306 | - | Rel-16 | F | 5GS\_Ph1-SBI\_CH | revised |
| S5-211420 | Rel-16 CR 32.291 Missing eventLimit in trigger and OpenAPI | China Mobile Com. Corporation | 32.291 | 0306 | 1 | Rel-16 | F | 5GS\_Ph1-SBI\_CH | agreed |
| S5-211273 | Rel-16 CR TS 32.291 Correcting response code references | Ericsson LM | 32.291 | 0307 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211274 | Rel-16 CR TS 32.291 Correcting missing eventLimit | Ericsson LM | 32.291 | 0308 | - | Rel-16 | F | TEI16 | merged |
| S5-211275 | Rel-16 CR TS 32.291 Correcting binding for iPv6dynamicPrefixFlag | Ericsson LM | 32.291 | 0309 | - | Rel-16 | F | TEI16 | revised |
| S5-211413 | Rel-16 CR TS 32.291 Correcting binding for iPv6dynamicPrefixFlag | Ericsson LM | 32.291 | 0309 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211276 | Rel-16 CR TS 32.291 Correcting NEF naming | Ericsson LM | 32.291 | 0310 | - | Rel-16 | F | TEI16 | agreed |
| S5-211277 | Rel-16 CR TS 32.291 Correcting ChargingNotifyResponse usage | Ericsson LM | 32.291 | 0311 | - | Rel-16 | F | TEI16 | not pursued |
| S5-211150 | Rel-17 CR 32.298 Adding IMS Information in converged charging | China Mobile | 32.298 | 0854 | - | Rel-17 | B | 5GSIMSCH | not pursued |
| S5-211264 | Rel-16 CR TS 32.298 Correction of SubscriptionID usage | Ericsson LM | 32.298 | 0855 | - | Rel-16 | F | TEI16 | revised |
| S5-211405 | Rel-16 CR TS 32.298 Correction of SubscriptionID usage | Ericsson LM | 32.298 | 0855 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211265 | Rel-16 CR TS 32.298 Correcting backwards compatibility of AMFID | Ericsson LM | 32.298 | 0856 | - | Rel-16 | F | TEI16 | revised |
| S5-211406 | Rel-16 CR TS 32.298 Correcting backwards compatibility of AMFID | Ericsson LM | 32.298 | 0856 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211266 | Rel-16 CR TS 32.298 Correcting optional parameters for CHF CDR | Ericsson LM | 32.298 | 0857 | - | Rel-16 | F | TEI16 | revised |
| S5-211407 | Rel-16 CR TS 32.298 Correcting optional parameters for CHF CDR | Ericsson LM | 32.298 | 0857 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211267 | Rel-16 CR TS 32.298 Correcting missing value in CauseForRecClosing | Ericsson LM | 32.298 | 0858 | - | Rel-16 | F | TEI16 | agreed |
| S5-211268 | Rel-16 CR TS 32.298 Correcting diagnostic parameters for CHF CDR | Ericsson LM | 32.298 | 0859 | - | Rel-16 | F | TEI16 | revised |
| S5-211408 | Rel-16 CR TS 32.298 Correcting diagnostic parameters for CHF CDR | Ericsson LM | 32.298 | 0859 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-211269 | Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence | Ericsson LM | 32.298 | 0860 | - | Rel-16 | F | TEI16 | revised |
| S5-211409 | Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence | Ericsson LM | 32.298 | 0860 | 1 | Rel-16 | F | TEI16 | revised |
| S5-211462 | Rel-16 CR TS 32.298 Correcting eventTimeStamp as sequence | Ericsson LM | 32.298 | 0860 | 2 | Rel-16 | F | TEI16 | agreed |
| S5-211270 | Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo | Ericsson LM | 32.298 | 0861 | - | Rel-16 | F | TEI16 | revised |
| S5-211410 | Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo | Ericsson LM | 32.298 | 0861 | 1 | Rel-16 | F | TEI16 | revised |
| S5-211463 | Rel-16 CR TS 32.298 Correcting backwards compatibility for OriginatorInfo and RecipientInfo | Ericsson LM | 32.298 | 0861 | 2 | Rel-16 | F | TEI16 | agreed |
| S5-211082 | Add new requirement for GPB trace format | Ericsson LM | 32.421 | 0097 | - | Rel-17 | B | e\_5GMDT | revised |
| S5-211468 | Add new requirement for GPB trace format | Ericsson LM | 32.421 | 0097 | 1 | Rel-17 | B | e\_5GMDT | agreed |
| S5-211062 | Rel-16 CR TS 32.422 Clarify failure happened in signalling activation | Huawei | 32.422 | 0353 | - | Rel-16 | F | e\_5GMDT | not pursued |
| S5-211063 | Rel-17 CR TS 32.422 Clarify failure happened in signalling activation | Huawei | 32.422 | 0354 | - | Rel-17 | A | e\_5GMDT | not pursued |
| S5-211064 | Rel-16 CR TS 32.422 Correct tracing roaming subscribers case | Huawei | 32.422 | 0355 | - | Rel-16 | F | e\_5GMDT | agreed |
| S5-211065 | Rel-17 CR TS 32.422 Correct tracing roaming subscribers case | Huawei | 32.422 | 0356 | - | Rel-17 | A | e\_5GMDT | agreed |
| S5-211077 | Add new clause for URI | Ericsson LM | 32.422 | 0357 | - | Rel-16 | F | 5GMDT | revised |
| S5-211466 | Add new clause for URI | Ericsson LM | 32.422 | 0357 | 1 | Rel-16 | F | 5GMDT | agreed |
| S5-211083 | Add new clause for URI | Ericsson LM | 32.422 | 0358 | - | Rel-17 | A | 5GMDT | revised |
| S5-211469 | Add new clause for URI | Ericsson LM | 32.422 | 0358 | 1 | Rel-17 | A | 5GMDT | agreed |
| S5-211079 | Correct trace record information for immediate MDT measurement | Ericsson LM | 32.423 | 0120 | - | Rel-16 | F | 5GMDT | revised |
| S5-211467 | Correct trace record information for immediate MDT measurement | Ericsson LM | 32.423 | 0120 | 1 | Rel-16 | F | 5GMDT | agreed |
| S5-211086 | Add new parameters for trace record header | Ericsson LM | 32.423 | 0121 | - | Rel-17 | C | e\_5GMDT | revised |
| S5-211470 | Add new parameters for trace record header | Ericsson LM | 32.423 | 0121 | 1 | Rel-17 | C | e\_5GMDT | agreed |
| S5-211087 | Correct trace record information for immediate MDT measurement | Ericsson LM | 32.423 | 0122 | - | Rel-17 | A | 5GMDT | revised |
| S5-211471 | Correct trace record information for immediate MDT measurement | Ericsson LM | 32.423 | 0122 | 1 | Rel-17 | A | 5GMDT | agreed |
| S5-211227 | Rel-17 CR TS 32.508 update procedures flows to applicable for RAN NE | Huawei,China Telecom | 32.508 | 0001 | - | Rel-17 | B | eSON\_5G | not pursued |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-211014 |  | LS to SA5 on NGMN 5G End-to-End Architecture Framework (Phase-3) | NGMN | noted | (none) |
| S5-211015 |  | Reply LS ccSA5 on support of stateless NFs | C4-205487 | noted | (none) |
| S5-211016 |  | LS reply to 3GPP SA5 on the relation between EDGEAPP and ETSI MEC architectures | ETSI ISG MEC | postponed | (none) |
| S5-211017 |  | New Whitepaper: “Operator Platform Telco Edge proposal" | GSMA | postponed | (none) |
| S5-211018 |  | Reply LS to SA5 on the user consent for trace reporting | R2-2010894 | noted | (none) |
| S5-211019 |  | LS cc SA5 on NR QoE progress in RAN3 | R3-207120 | noted | (none) |
| S5-211020 |  | Reply LS to SA5 on QoS Monitoring for URLLC | R3-207177 | replied to | S5-211350 |
| S5-211021 |  | Response LS to SA5 on Enhancement of RAN Slicing | R3-207236 | replied to | S5-211512 |
| S5-211022 |  | LS to SA5 on controlling the number of UEs and PDU Sessions in a Network Slice | S2-2009214 | replied to | S5-211464 |
| S5-211023 |  | Reply LS to SA5 on network data analysis energy saving | S2-2009349 | replied to | S5-211478 |
| S5-211024 |  | LS to SA5 on OAM that supports RAT/frequency data | S2-2009379 | replied to | S5-211521 |
| S5-211025 |  | LS Response to SA5 on providing cell energySaving state information to NWDAF | S2-2009386 | noted | (none) |
| S5-211026 |  | LS Reply ccSA5 on New service type of NR QoE | S4-201576 | noted | (none) |
| S5-211027 |  | LS reply to SA5 on QoE Measurement Collection | S4-201600 | noted | (none) |
| S5-211028 |  | LS to SA5 on Relation between 3GPP EDGEAPP and ETSI MEC architectures | S6-202355 | postponed | (none) |
| S5-211029 |  | LS to SA5 on Use of Inclusive Language in 3GPP | SP-201143 | noted | (none) |
| S5-211030 |  | LS on O-RAN – 3GPP Cooperation on Management Services | O-RAN | postponed | (none) |
| S5-211345 |  | LS/o ccSA5 on Establishment of new Focus Group on Autonomous Networks | ITU-T SG13 | noted | (none) |
| S5-211346 |  | LS/r on methodology harmonization and REST-based network management framework (reply to 3GPP TSG SA5-S5-204647) | ITU-T SG2 | postponed | (none) |
| S5-211347 |  | LS/r on work progress on M.resm-AI "Requirements for energy saving management of 5G RAN system with AI" (reply to 3GPP SA5-LS1225) | ITU-T SG2 | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-211324 | LS on Handover terminology | RAN2,RAN3 | - |  |
| S5-211350 | LS Reply to RAN3 on QoS Monitoring for URLLC | RAN3 | SA2, RAN2 | S5-211020 |
| S5-211423 | LS reply on LS on 5G ProSe charging updates | SA2 | - |  |
| S5-211438 | LS on providing cell energySaving Status information to NWDAF | SA2 | - |  |
| S5-211442 | LS on the clarification of HO and/or reselection parameters ranges required by MLB | RAN3 | - |  |
| S5-211464 | LS reply to LS on controlling the number of UEs and PDU Sessions in a Network Slice | SA2 | - | S5-211022 |
| S5-211478 | Reply LS on network data analysis energy saving | 3GPP SA2 | 3GPP SA | S5-211023 |
| S5-211512 | Reply LS on Enhancement of RAN Slicing | 3GPP RAN3 | 3GPP SA2 | S5-211021 |
| S5-211521 | Reply LS on OAM that supports RAT/frequency data | SA2 | - |  |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-211527 | New SID on CI-CD support for netowrk slicing | Lenovo Mobile Com. Technology | SID new |
| S5-211530 | Generic Plug and Connect | Ericsson France S.A.S | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-211042 | 32.847 | 0.0.0 | Rel-17 TR 32.847 skeleton |
| S5-211253 | 28.822 | 0.0.0 | TR 28.822 0.0.0 skeleton |
| S5-211340 | 28.822 | 0.0.1 | 28822-001 |
| S5-211383 | 32.846 | 0.3.0 | Draft 32.846 |
| S5-211416 | 32.847 | 0.0.0 | Rel-17 TR 32.847 skeleton |
| S5-211424 | 28.816 | 0.3.0 | DraftTR 28.816 |
| S5-211426 | 28.815 | 0.4.0 | Draft TR 28.815 |
| S5-211427 | 32.847 | 0.1.0 | Draft TR 32.847 |
| S5-211428 | 28.822 | 0.1.0 | 28.822-010 |
| S5-211436 | 28.811 | 0.3.0 | Draft TR 28.811 |
| S5-211440 | 28.813 | 0.4.0 | Draft TR 28.813 |
| S5-211445 | 28.312 | 0.3.0 | Latest draft TS 28.312 |
| S5-211472 | 28.100 | 0.3.0 | draft TS 28100-030 |
| S5-211475 | 28.817 | 0.1.0 | Draft TR 28.817 |
| S5-211486 | 28.809 | 1.2.0 | Draft TR 28.809 |
| S5-211509 | 28.557 | 0.3.0 | Latest draft TS 28.557 |
| S5-211511 | 28.808 | 1.1.0 | Draft TR28.808 |
| S5-211520 | 28.814 | 0.3.0 | Draft TR 28.814 V0.3.0 |

## Annex F: List of action items

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Meeting/Number | Agenda item | Document | Details | Responsible | Due by |
| 135e/1 | 5.3 | S5-211029 | Search all Rel-17 specifications and check if they are aligned (mainly no use of "Master/Slave", White/Black list") and bring corrective CRs for the next SA5#136e or the next SA if needed. Prepare to do the same work for Rel-16 specs before Rel-17 is frozen. | TS rapporteurs | 2021-04-18 |
| 135e/2 | 5.2 | S5-211348 | Produce a proposal to make the Gitlab/Forge code the primary source | Jing Ping (Nokia), Balazs (Ericsson) | 2021-04-18 |

## Annex G: List of participants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization | Organization Represented |
| Dr. | Al-kanani | Hassan | Delegate | NEC Europe Ltd | NEC Europe Ltd |
| Mr. | Andrianov | Anatoly | Delegate | Nokia Germany | Nokia |
| Mrs. | Ayani | Zhulia | Delegate | Ericsson LM | Oy LM Ericsson AB |
| Mr. | Braam | Sjors | Delegate | TNO | KPN N.V. |
| Mr. | Cano Soveri | Mirko | Secretary | ETSI | ETSI |
| Mr. | Cao | Xi | Delegate | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Champel | Mary-Luc | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Electronics |
| Dr. | Chen | Ai | Delegate | China Mobile Com. Corporation | China Mobile E-Commerce Co. |
| Miss | CHEN | SHAN | Delegate | Huawei Tech.(UK) Co.. Ltd | HiSilicon Technologies Co. Ltd |
| Mr. | Chen | XianSong | Delegate | Huawei Technologies France | HUAWEI TECHNOLOGIES Co. Ltd. |
| Miss | Chen | Xiumin | Delegate | China Telecommunications | China Telecommunications |
| Mr. | Chou | Joey | Rapporteur | Intel Corporation (UK) Ltd | Intel Deutschland GmbH |
| Mr. | Chuberre | Nicolas | Delegate | THALES | THALES |
| Dr. | Cornily | Jean Michel | Delegate | Orange | Orange Spain |
| Miss | Dong | Jia | Delegate | China Mobile E-Commerce Co. | China Mobile Com. Corporation |
| Mr. | Drijver | Floris | Rapporteur | TNO | TNO |
| Mr. | Elmdahl | Per | Delegate | Ericsson France S.A.S | Ericsson France S.A.S |
| Dr. | Featherstone | Walter | Delegate | Samsung R&D Institute UK | Samsung Electronics Polska |
| Mr. | Gao | Xiao-Ming | Delegate | Ericsson LM | Ericsson LM |
| Mrs. | Gardella | Maryse | Vice Chairman | Nokia France | Nokia Belgium |
| Mr. | Gautam | Deepanshu | Delegate | Samsung R&D Institute UK | Samsung Electronics Benelux BV |
| Mr. | Glozman | Borislav | Delegate | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd |
| Mr. | Görmer | Gerald | Delegate | Matrixx | Matrixx |
| Mr. | Groenendijk | Jan | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Gupta | Varini | Delegate | Samsung R&D Institute India | Samsung Electronics Iberia SA |
| Mr. | Hassett | Brendan | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Sweden AB |
| Ms. | Hu | Yaxi | Delegate | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Jan | Onnegren | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Jerbi | Walid | Delegate | Deutsche Telekom AG | Deutsche Telekom AG |
| Miss | JIA | Xiaoqian | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Dr. | Jorguseski | Ljupco | Delegate | TNO | KPN N.V. |
| Mr. | Ju | Manchang | Delegate | ZTE Corporation | ZTE Corporation |
| Mr. | Klotz | Michael | Delegate | Deutsche Telekom AG | Deutsche Telekom AG |
| Dr. | Kollar | Martin | Delegate | Nokia Solutions & Networks (I) | Nokia Solutions & Networks (I) |
| Mr. | Lei | Yu | Delegate | Beijing Xiaomi Mobile Software | Xiaomi Communications |
| Mr. | Lengyel | Balazs | Delegate | Ericsson Hungary Ltd | Ericsson Hungary Ltd |
| Mr. | Li | Gang | Delegate | Nanjing Ericsson Panda Com Ltd | Nanjing Ericsson Panda Com Ltd |
| Mrs. | li | jing | Delegate | China Unicom | China Unicom |
| Mr. | Li | Shitao | Delegate | Huawei Tech.(UK) Co.. Ltd | HUAWEI TECH. GmbH |
| Mr. | Libunao | Gerardo | Delegate | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Lindblad | Jan | Delegate | Cisco Systems Belgium | Cisco Systems Belgium |
| Mr. | LIU | Jianning(Carry) | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Miss | Liu | Jiayifan | Delegate | China Telecomunication Corp. | China Telecomunication Corp. |
| Ms. | Lu | Wei | Delegate | Xiaomi Technology | Xiaomi Technology |
| Mr. | Malashnyak | Volodymyr | Delegate | Ericsson LM | Ericsson LM |
| Mr. | McNamee | Alan | Delegate | Openet Telecom | Openet Telecom |
| Ing. | Moggio | Fabrizio | Delegate | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Nakano | Yusuke | Delegate | KDDI Corporation | KDDI Corporation |
| Ms. | Niu | Yuxia | Delegate | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Ordonez-Lucena | Jose | Delegate | TELEFONICA S.A. | TELEFONICA S.A. |
| Dr. | Park | Justin | Delegate | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Petersen | Robert | Delegate | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Miss | Ping | Jing | Delegate | Nokia Germany | Nokia Germany |
| Mr. | PINTO | BARUCH | Delegate | Allot Ltd | Allot Ltd |
| Dr. | Pollakowski | Olaf | Delegate | Nokia Germany | Nokia Germany |
| Mr. | Potter | Benjamin | Delegate | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Mrs. | Praden | Anne-Marie | Delegate | THALES | THALES |
| Mr. | Ram | Vishnu | Delegate | TSDSI | TSDSI |
| Mr. | Sama | Malla Reddy | Delegate | DOCOMO Communications Lab. | DOCOMO Communications Lab. |
| Dr. | Samdanis | Konstantinos | Delegate | Nokia Germany | Nokia Germany |
| Mr. | Scott | Mark | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Sexton | Kieran | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Ms. | Shen | Yang | Delegate | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Ms. | Shi | Xiaonan | Delegate | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Shu | Min | Delegate | CATT | CATT |
| Mr. | Smith | David K. | Delegate | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Mr. | Sonal | Umit Kaan | Delegate | TURKCELL | TURKCELL |
| Miss | Song | Xiaojia | Delegate | China Mobile Research Inst. | China Mobile Com. Corporation |
| Dr. | Su | Zijian | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Sun | Mingrui | Delegate | China Unicom | China Unicom |
| Miss | Sun | Xiaowen | Delegate | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | THAKOLSRI | SRISAKUL | Delegate | DOCOMO Communications Lab. | DOCOMO Communications Lab. |
| Mr. | Törnkvist | Robert | Delegate | Ericsson LM | Ericsson España S.A. |
| Mr. | Tovinger | Thomas | Chairman | Ericsson LM | Ericsson LM |
| Mr. | Vaishnavi | Ishan | Delegate | Lenovo (Beijing) Ltd | Lenovo Mobile Com. Technology |
| Ms. | Wang | Man | Delegate | HuaWei Technologies Co., Ltd | Huawei Telecommunication India |
| Ms. | Weaver | Farni | Delegate | T-Mobile USA | T-Mobile USA |
| Mr. | Wu | Zhibin | Delegate | Apple GmbH | Apple GmbH |
| Mr. | Xiang | Li | Delegate | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | XING | XIAOCHENG | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Mr. | Xu | Ruiyue | Delegate | Huawei Tech.(UK) Co.. Ltd | HUAWEI Technologies Japan K.K. |
| Mr. | Yao | Yizhi | Rapporteur | Intel Corporation (UK) Ltd | Intel Finland Oy |
| Dr. | Yu | Xiaobo | Delegate | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Miss | Yuan | Jingjing | Delegate | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Zadeh | Bagher | Delegate | Ericsson LM | Ericsson LM |
| Mr. | Zhang | Jian | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Mr. | Zhang | Kai | Delegate | Huawei Tech.(UK) Co.. Ltd | Huawei Technologies R&D UK |
| Mr. | Zhao | Song | Delegate | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Zhu | Lei | Delegate | Huawei Tech.(UK) Co.. Ltd | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Zhu | Weihong | Delegate | ZTE Corporation | ZTE Corporation |
| Ms. | Zou | Lan | Vice Chairman | Huawei Tech.(UK) Co.. Ltd | Huawei Technologies (Korea) |

## Annex I: List of future meetings

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| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| S5-137e | 10/05/2021 | 19/05/2021 | Electronic meeting |  |  |
| S5-138 | 23/08/2021 | 27/08/2021 | TBD |  |  |