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

**Meeting Report  
for  
TSG SA WG5  
meeting: 141e**

**Electronic meeting, Online, 17/01/2022 to 26/01/2022**

Contents:

1 Opening of the meeting 3

2 Approval of the agenda 3

3 IPR and legal declaration 3

4 Meetings and activities reports 3

4.1 Last SA5 meeting report 3

4.2 Last SA meeting report 3

4.3 Inter-organizational reports 3

5 Cross-SWG issues 3

5.1 Administrative issues at SA5 level 3

5.2 Technical issues at SA5 level 5

5.3 Liaison statements at SA5 level 5

5.4 SA5 meeting calendar 11

6 OAM&P 11

6.1 OAM&P Plenary 11

6.2 New OAM&P Work Item proposals 14

6.3 OAM&P Maintenance and Rel-17 small Enhancements 19

6.4 Rel-17 Operations, Administration, Maintenance and Provisioning (OAM&P) 26

6.4.1 Management of non-public networks 26

6.4.2 Enhancement on Management Aspects of 5G Service-Level Agreement 28

6.4.3 Management of MDT enhancement in 5G 30

6.4.4 Additional NRM features 31

6.4.5 Enhancement of QoE Measurement Collection 35

6.4.6 Enhancements of 5G performance measurements and KPIs 37

6.4.7 Management of the enhanced tenant concept 41

6.4.8 Management data collection control and discovery 42

6.4.9 Intent driven management service for mobile networks 44

6.4.10 Enhanced Closed loop SLS Assurance 47

6.4.11 Self-Organizing Networks (SON) for 5G networks 50

6.4.12 Enhancement of Handover Optimization 52

6.4.13 Discovery of management services in 5G 53

6.4.14 Management Aspects of 5G Network Sharing 54

6.4.15 Enhancements of Management Data Analytics Service 55

6.4.16 Plug and connect support for management of Network Functions 65

6.4.17 File Management 67

6.4.18 Edge Computing Management 69

6.4.19 Improved support for NSA in the service-based management architecture 77

6.4.20 Access control for management service 78

6.4.21 Network slice provisioning enhancement 79

6.5 OAM&P Studies 81

6.5.1 Study on YANG PUSH 81

6.5.2 Study on network slice management capability exposure 82

6.5.3 Study on continuous integration continuous delivery support for 3GPP NFs 86

6.5.4 Study on enhancement of service based management architecture 88

7 Charging 88

7.1 Charging Plenary 88

7.2 New Charging Work Item proposals 89

7.3 Charging Maintenance and Rel-17 small Enhancements 89

7.4 Rel-17 Charging 95

7.4.1 IMS Charging in 5G System Architecture 95

7.4.2 Charging aspects of Edge Computing 96

7.4.3 Charging aspects of Architecture Enhancement for NR Reduced Capability Devices 99

7.4.4 Charging aspects of Proximity-based Services in 5GS 100

7.4.5 Charging Aspects of 5G LAN VN Group 101

7.4.6 New WID on Charging enhancements for 5G CIoT 103

7.5 Charging studies 105

7.5.1 Study on Charging Aspect of 5G LAN-type Services 105

7.5.2 Study on charging aspects for enhancements of Network Slicing Phase 2 106

7.5.3 Study on Nchf charging services phase 2 106

7.5.4 Study on 5G roaming charging architecture for wholesale and retail scenarios 108

8 Any Other Business 112

9 Closing of the meeting 112

Annex A: Contribution documents and status 112

A1: List of TDocs 112

A2: Tdoc decision timing 132

Annex B: List of change requests 133

Annex C: Lists of liaisons 146

C1: Incoming liaison statements 146

C2: Outgoing liaison statements 148

Annex D: List of agreed/approved new and revised Work Items 149

Annex E: List of draft Technical Specifications and Reports 150

Annex F: List of participants 151

Annex G: List of future meetings 154

## 1 Opening of the meeting

NOTE: Minutes of the conference calls and a summary of the email discussions can be found in the Leadership notes: S5-221642 for Charging and S5-221007 for OAM/plenary.

## 2 Approval of the agenda

**S5-221000 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

**S5-221001 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

**S5-221002 e-meeting process**

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

**Decision:** The document was **revised to S5-221490**.

**S5-221490 e-meeting process**

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

(Replaces S5-221002)

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

**S5-221003 Post e-meeting email approval status**

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

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

**S5-221010 SA5 working procedures**

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

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

**S5-221011 Process for management of draft TS-TRs**

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

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

**S5-221059 Forge working procedure change in SA5 Working Procedures**

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

**Decision:** The document was **revised to S5-221497**.

**S5-221497 Forge working procedure change in SA5 Working Procedures**

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

(Replaces S5-221059)

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

**S5-221449 Update of Stage 2 / Stage 3 alignment principles in SA5 working procedures**

*Type: other For: Discussion  
 Source: SA5 Chair, SA5 Vice chair (Huawei)*

**Decision:** The document was **revised to S5-221546**.

**S5-221546 Update of Stage 2 / Stage 3 alignment principles in SA5 working procedures**

*Type: other For: Discussion  
 Source: SA5 Chair, SA5 Vice chair (Huawei)*

(Replaces S5-221449)

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

**S5-221486 Forge process update of clause 23.4 and 23.9 in SA5 Working Procedures**

*Type: other For: Approval  
 Source: WG chair*

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

**S5-221487 Rel-18 work prioritization**

*Type: other For: Endorsement  
 Source: WG chair*

**Decision:** The document was **revised to S5-221500**.

**S5-221500 Rel-18 work prioritization**

*Type: discussion For: Endorsement  
 Source: WG chair*

(Replaces S5-221487)

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

**S5-221498 Updated SA5 working procedures**

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

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

### 5.2 Technical issues at SA5 level

**S5-221282 Rel-17 Discussion paper on definition of tenant**

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

**Decision:** The document was **revised to S5-221547**.

**S5-221547 Rel-17 Discussion paper on definition of tenant**

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

(Replaces S5-221282)

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

### 5.3 Liaison statements at SA5 level

**S5-221014 LS on 3GPP SA5 work on 5G network energy efficiency and energy saving**

*Type: LS out For: Approval  
 to GSMA, NGMN, ITU-T SG5, ETSI TC EE, ETSI ISG NFV, cc 3GPP SA, SA2, RAN  
 Source: Orange*

**Decision:** The document was **revised to S5-221680**.

**S5-221680 LS on 3GPP SA5 work on 5G network energy efficiency and energy saving**

*Type: LS out For: Approval  
 to GSMA, NGMN, ITU-T SG5, ETSI TC EE, ETSI ISG NFV, cc 3GPP SA, SA2, RAN  
 Source: Orange*

(Replaces S5-221014)

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

**S5-221015 Reply LS to SA on energy efficiency as guiding principle for new solutions**

*Type: LS out For: Approval  
 to SA, cc RAN, CT, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, RAN5, CT1, CT3, CT4, CT6  
 Source: Orange*

**Decision:** The document was **revised to S5-221501**.

**S5-221501 Reply LS to SA on energy efficiency as guiding principle for new solutions**

*Type: LS out For: Approval  
 to SA, cc RAN, CT, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, RAN5, CT1, CT3, CT4, CT6  
 Source: Orange*

(Replaces S5-221015)

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

**S5-221016 Reply LS on Recommendation ITU-T M.3381**

*Type: LS out For: Approval  
 to ITU-T SG2, cc ITU-T SG5, ITU-R WP 5D, TSG SA  
 Source: Intel, NEC, Orange*

**Decision:** The document was **revised to S5-221502**.

**S5-221502 Reply LS on Recommendation ITU-T M.3381**

*Type: LS out For: Approval  
 to ITU-T SG2, cc ITU-T SG5, ITU-R WP 5D, TSG SA  
 Source: Intel, NEC, Orange*

(Replaces S5-221016)

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

**S5-221079 Reply LS on slicing management aspects in relation to SEAL**

*Type: LS out For: Approval  
 to SA6, cc SA2, SA  
 Source: Huawei*

**Decision:** The document was **revised to S5-221548**.

**S5-221548 Reply LS on slicing management aspects in relation to SEAL**

*Type: LS out For: Approval  
 to SA6, cc SA2, SA  
 Source: Huawei*

(Replaces S5-221079)

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

**S5-221373 Reply LS on network slice management service consumption**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Alibaba Group*

**Decision:** The document was **revised to S5-221551**.

**S5-221551 Reply LS on network slice management service consumption**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Alibaba Group*

(Replaces S5-221373)

**Decision:** The document was **revised to S5-221560**.

**S5-221560 Reply LS on network slice management service consumption**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Alibaba Group*

(Replaces S5-221551)

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

**S5-221453 Resubmitted LS on Guidelines on Port Allocation for New 3GPP Interfaces**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-214848*

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

**S5-221454 Reply LS on Guidelines on Port Allocation for New 3GPP Interfaces**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-216233*

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

**S5-221455 LS on the first deliverable on use cases for autonomous networks from ITU FG-AN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T FOCUS GROUP ON AUTONOMOUS NETWORKS (FG-AN)*

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

**S5-221456 Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486**

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

**Decision:** The document was **replied to in S5-221493**.

**S5-221493 Reply to: Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486**

*Type: LS out For: approval  
 to TM Forum, cc SA  
 Source: Ericsson*

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

**S5-221457 Resubmitted LS APT REPORT ON EMERGING CRITICAL APPLICATIONS & USE CASES OF IMT FOR INDUSTRIAL, SOCIETAL AND ENTERPRISE USERS**

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

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

**S5-221458 Liaison**

**Multi-SDO Autonomous Networks (AN) Formal Liaison:**

**Minutes and Actions 22nd Nov 2021 Meeting #13**

**Ref AN-SDO2021-13**

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

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

**S5-221459 Resubmitted Liaison**

**Multi-SDO Autonomous Networks Liaison:**

**Intent Management documents for information and feedback**

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

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

**S5-221460 Liaison**

**Multi-SDO Autonomous Networks (AN) Formal Liaison:**

**22nd November 2021 Meeting Invitation, Agenda, Bridge, and**

**Meeting Schedule Ref AN-SDO2021-13**

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

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

**S5-221461 Multi-SDO Autonomous Networks (AN) Formal Liaison:**

**Notification of Open Presentation 14th Jan and 31st Jan 2020 (postponed December) formal meeting #15 Ref AN-SDO2022-01**

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

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

**S5-221462 Reply LS from GSMA Operator Platform API Group to 3GPP SA, SA2, SA5, SA6 and ETSI ISG MEC on edge computing definition and integration**

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

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

**S5-221463 Reply LS from GSMA Operator Platform Group to 3GPP SA, SA2, SA5, SA6 and ETSI ISG MEC on edge computing definition and integration.**

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

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

**S5-221470 Resubmitted LS on introducing NR RedCap Indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107853*

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

**S5-221471 Resubmitted LS on MINT functionality for Disaster Roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2108172*

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

**S5-221472 Reply LS ccSA5 on LS on MINT functionality for Disaster Roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-214342*

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

**S5-221473 Reply LS ccSA5 on LS on MINT functionality for Disaster Roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-214416*

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

**S5-221476 Resubmitted LS on slicing management aspects in relation to SEAL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-210709*

**Decision:** The document was **replied to in S5-221548**.

**S5-221478 LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539)**

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

**Decision:** The document was **replied to in S5-221492**.

**S5-221492 Reply to: LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539)**

*Type: LS out For: approval  
 to ITU-T SG2  
 Source: CMCC*

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

**S5-221479 LS on the Consent of Recommendation ITU-T M.3381 (ex. M.resm-AI), "Requirements for energy saving management of 5G RAN system with AI"**

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

**Decision:** The document was **replied to in S5-221502**.

**S5-221480 LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation"**

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

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

**S5-221482 LS on ongoing work within ITU-T Study Group 3 (SG3) on new Technical Report on “IMT2020-Related Policy Considering MVNOs”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG3*

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

**S5-221483 LS on Energy Efficiency as guiding principle for new solutions**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-211621*

**Decision:** The document was **replied to in S5-221501**.

**S5-221485 Multi-SDO Autonomous Networks (AN) Formal Liaison: Notification of Open Presentation 14th Jan and 21st February 2022 (postponed December) formal meeting #15 Ref AN-SDO2022-01 rev 1**

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

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

**S5-221491 Reply LS ccSA5 to GSMA Operator Platform Group on edge computing definition and integration**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: SP-220003*

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

**S5-221494 Reply LS on Intent Management documents for information and feedback**

*Type: other For: discussion  
 Source: Ericsson*

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

### 5.4 SA5 meeting calendar

**S5-221012 SA5 meeting calendar**

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

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-221004 OAM&P action list**

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

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

**S5-221005 agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

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

**S5-221006 OAM Exec Report**

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

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

**S5-221007 OAM Chair notes and conclusions**

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

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

**S5-221013 Collection of useful endorsed document and external communication documents**

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

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

**S5-221165 CR Rel-17 TS 28.533 Add 5G specification information**

*Type: CR For: Approval  
 28.533 v17.1.0 CR-0098 Cat: F (Rel-17)  
  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-221503**.

**S5-221503 CR Rel-17 TS 28.533 Add 5G specification information**

*Type: CR For: Approval  
 28.533 v17.1.0 CR-0098 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei Technologies (Korea)*

(Replaces S5-221165)

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

**S5-221167 CR Rel-16 TS 32.103 Remove 5G specification information**

*Type: CR For: Approval  
 32.103 v16.2.0 CR-0033 Cat: F (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

**Decision:** The document was **revised to S5-221504**.

**S5-221504 CR Rel-16 TS 32.103 Remove 5G specification information**

*Type: CR For: Approval  
 32.103 v16.2.0 CR-0033 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei Technologies (Korea)*

(Replaces S5-221167)

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

**S5-221173 Rel-18 time plan proposal for OAM**

*Type: discussion For: Endorsement  
 Source: SA5 Vice chair (Huawei),SA5 Chair*

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

**S5-221194 Preparation of checking the Rel-17 OAM work progress**

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

**Decision:** The document was **revised to S5-221505**.

**S5-221505 Preparation of checking the Rel-17 OAM work progress**

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

(Replaces S5-221194)

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

**S5-221464 Reply LS ccSA5 on Beam measurement reports for the MDT measurements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2111476*

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

**S5-221465 Reply LS ccSA5 on MDT Stage 2 and Stage 3 Alignment (reply LS to R3-207222)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2111567*

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

**S5-221466 LS ccSA5 on RAN visible QoE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2111603*

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

**S5-221467 Resubmitted LS on RAN3 agreements for NR QoE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-214477*

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

**S5-221468 Reply LS (to S5-214652) on the F1 interface for MOCN network sharing for multiple Cell Identity broadcast scenario**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-216218*

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

**S5-221469 Response to LS Reply LS on Enhancement of RAN Slicing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-216238*

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

**S5-221474 Reply LS ccSA5 on QoE report handling at QoE pause**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-214458*

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

**S5-221475 Resubmitted LS on TS 28.404/TS 28.405 Clarification**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-211234*

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

**S5-221477 Resubmitted LS on network slice management service consumption**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-212460*

**Decision:** The document was **replied to in S5-221560**.

**S5-221481 LS/r on methodology harmonization update (reply to 3GPP TSG SA5-S5-215481)**

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

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

**S5-221496 Rel-17 CR TS 32.256 Clarify definition of AllowedValues**

*Type: CR For: Agreement  
 32.156 v16.4.0 CR-0040 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

### 6.2 New OAM&P Work Item proposals

**S5-221062 DP for New Rel-18 SID measurement data collection to support RAN intelligence\_x00B\_**

*Type: discussion For: Discussion  
 Source: Intel Corporation (UK) Ltd*

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

**S5-221063 New SID Study on measurement data collection to support RAN intelligence**

*Type: SID new For: Approval  
 Source: Intel Corporation (UK) Ltd, Verizon, AT&T, CMCC*

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

**S5-221179 New SID on Network Slice Management Capability Exposure Phase 2**

*Type: SID new For: Approval  
 Source: Alibaba Group*

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

**S5-221181 New Rel-18 SID on Closed control loop for autonomous network management**

*Type: SID new For: Agreement  
 Source: ZTE Corporation*

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

**S5-221195 New WID on Network Slice Management Capability Exposure**

*Type: WID new For: Agreement  
 Source: Alibaba Group*

**Decision:** The document was **revised to S5-221552**.

**S5-221552 New WID on Network Slice Management Capability Exposure**

*Type: WID new For: Agreement  
 Source: Alibaba Group*

(Replaces S5-221195)

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

**S5-221201 New SID on Fault Supervision Evolution**

*Type: SID new For: Approval  
 Source: China Mobile Research Inst.; HUAWEI*

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

**S5-221203 New SID on Fault Supervision Evolution**

*Type: SID new For: (not specified)  
 Source: China Mobile Com. Corporation;HUAWEI*

**Decision:** The document was **revised to S5-221553**.

**S5-221553 New SID on Fault Supervision Evolution**

*Type: SID new For: -  
 Source: China Mobile Com. Corporation;HUAWEI*

(Replaces S5-221203)

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

**S5-221204 New SID on Management Aspect Enhancement of 5G MOCN Network Sharing**

*Type: SID new For: Approval  
 Source: China Unicom*

**Decision:** The document was **revised to S5-221353**.

**S5-221235 New SID on Management Aspects of URLLC**

*Type: SID new For: Approval  
 Source: China Unicom*

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

**S5-221239 New SID on Basic SBMA enabler enhancements**

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

**Decision:** The document was **revised to S5-221506**.

**S5-221506 New SID on Basic SBMA enabler enhancements**

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

(Replaces S5-221239)

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

**S5-221241 New SID on Management Aspects of URLLC**

*Type: SID new For: Approval  
 Source: China Unicom*

**Decision:** The document was **revised to S5-221507**.

**S5-221507 New SID on Management Aspects of URLLC**

*Type: SID new For: Approval  
 Source: China Unicom*

(Replaces S5-221241)

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

**S5-221242 New Rel-18 SID on alignment with GSMA OPG and ETSI MEC for Edge computing management**

*Type: SID new For: Agreement  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221508**.

**S5-221508 New Rel-18 SID on alignment with GSMA OPG and ETSI MEC for Edge computing management**

*Type: SID new For: Agreement  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221242)

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

**S5-221263 New SID on Digital twin for network management**

*Type: SID new For: (not specified)  
 Source: CMCC*

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

**S5-221265 Management Aspect of User Plane Enhancement**

*Type: SID new For: (not specified)  
 Source: CMCC*

**Decision:** The document was **revised to S5-221509**.

**S5-221509 Management Aspect of User Plane Enhancement**

*Type: SID new For: -  
 Source: CMCC*

(Replaces S5-221265)

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

**S5-221300 New Rel-18 WID on enhanced Edge Computing Management**

*Type: WID new For: Agreement  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221554**.

**S5-221554 New Rel-18 WID on enhanced Edge Computing Management**

*Type: WID new For: Agreement  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221300)

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

**S5-221303 New WID on enhancement of 5G+ NRM features**

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

**Decision:** The document was **revised to S5-221510**.

**S5-221510 New WID on enhancement of 5G+ NRM features**

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

(Replaces S5-221303)

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

**S5-221329 New SID Study on Management of Cloud Native Virtualized Network Functions**

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

**Decision:** The document was **revised to S5-221511**.

**S5-221511 New SID Study on Management of Cloud Native Virtualized Network Functions**

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

(Replaces S5-221329)

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

**S5-221343 New SID on Advanced Alarm Management for 5G**

*Type: SID new For: Approval  
 Source: China Unicom*

**Decision:** The document was **revised to S5-221368**.

**S5-221347 New SID on Network Data Quality Management**

*Type: SID new For: Approval  
 Source: China Unicom*

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

**S5-221353 New SID on Management Aspect Enhancement of 5G MOCN Network Sharing**

*Type: SID new For: Approval  
 Source: China Unicom*

(Replaces S5-221204)

**Decision:** The document was **revised to S5-221512**.

**S5-221512 New SID on Management Aspect Enhancement of 5G MOCN Network Sharing**

*Type: SID new For: Approval  
 Source: China Unicom*

(Replaces S5-221353)

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

**S5-221359 New SID on intent-driven management for network slicing**

*Type: SID new For: (not specified)  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-221513**.

**S5-221513 New SID on intent-driven management for network slicing**

*Type: SID new For: -  
 Source: Ericsson Inc.*

(Replaces S5-221359)

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

**S5-221360 New SID on Knowledge Management Service**

*Type: WID new For: Approval  
 Source: China Unicom*

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

**S5-221368 New SID on Advanced Alarm Management for 5G**

*Type: SID new For: Approval  
 Source: China Unicom*

(Replaces S5-221343)

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

**S5-221369 New WID on continuous integration continuous delivery support for 3GPP NFs**

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

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

**S5-221372 New SID on Management Model of Base Station**

*Type: SID new For: Approval  
 Source: China Unicom*

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

**S5-221422 New SID on further Enhancements of Management of Trace/MDT**

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

**Decision:** The document was **revised to S5-221514**.

**S5-221514 New SID on further Enhancements of Management of Trace/MDT**

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

(Replaces S5-221422)

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

**S5-221448 New R18 SID on MP-CP Conflict management and coordination**

*Type: SID new For: (not specified)  
 Source: Lenovo (Beijing) Ltd*

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

### 6.3 OAM&P Maintenance and Rel-17 small Enhancements

**S5-221018 DP Deprecating attributes and IOCs**

*Type: discussion For: Endorsement  
 32.156 v..  
 Source: Ericsson Hungary Ltd*

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

**S5-221019 Deprecating attributes and IOC**

*Type: CR For: Approval  
 32.156 v16.4.0 CR-0038 Cat: B (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-221021 Add lifecycle-status for attributes, data types and IOCs**

*Type: CR For: Approval  
 32.160 v17.3.0 CR-0026 Cat: B (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-221025 Specifying multivalue attributes**

*Type: CR For: Approval  
 32.156 v16.4.0 CR-0039 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221522**.

**S5-221522 Specifying multivalue attributes**

*Type: CR For: Approval  
 32.156 v16.4.0 CR-0039 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-221025)

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

**S5-221026 Alarm Record changes**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0127 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221521**.

**S5-221521 Alarm Record changes**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0127 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-221026)

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

**S5-221027 Notification Subscription changes**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0128 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221519**.

**S5-221519 Notification Subscription changes**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0128 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-221027)

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

**S5-221031 YANG corrections**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0643 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-221032 Rel-16 CR 28.623 Structuring of TraceJob IOC and Clean up**

*Type: CR For: Approval  
 28.623 v16.10.0 CR-0145 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221040 Data change notifications YANG-in-Rest format**

*Type: CR For: Approval  
 28.532 v16.10.0 CR-0194 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-221064 Notification Subscription changes**

*Type: CR For: Approval  
 28.622 v16.10.0 CR-0129 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221518**.

**S5-221518 Notification Subscription changes**

*Type: CR For: Approval  
 28.622 v16.10.0 CR-0129 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-221064)

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

**S5-221065 Alarm Record changes**

*Type: CR For: Approval  
 28.622 v16.10.0 CR-0130 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221520**.

**S5-221520 Alarm Record changes**

*Type: CR For: Approval  
 28.622 v16.10.0 CR-0130 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-221065)

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

**S5-221091 Rel-17 CR 28.533 Update on management capability exposure governance**

*Type: CR For: Approval  
 28.533 v17.1.0 CR-0096 Cat: C (Rel-17)  
  
 Source: Huawei*

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

**S5-221092 Rel-17 CR 28.533 Add EGMF services to support MnS exposure**

*Type: CR For: Approval  
 28.533 v17.1.0 CR-0097 Cat: C (Rel-17)  
  
 Source: Huawei*

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

**S5-221148 Rel-17 CR TS 32.422 Correct the value of Report Interval in NR for alignment**

*Type: CR For: Agreement  
 32.422 v17.5.0 CR-0384 Cat: A (Rel-17)  
  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S5-221523**.

**S5-221523 Rel-17 CR TS 32.422 Correct the value of Report Interval in NR for alignment**

*Type: CR For: Agreement  
 32.422 v17.5.0 CR-0384 rev 1 Cat: A (Rel-17)  
  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-221148)

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

**S5-221155 Rel-15 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA**

*Type: CR For: Agreement  
 28.658 v15.6.0 CR-0058 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-216580)

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

**S5-221156 Rel-16 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA**

*Type: CR For: Agreement  
 28.658 v16.4.0 CR-0059 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-216581)

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

**S5-221157 Rel-17 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA**

*Type: CR For: Agreement  
 28.658 v17.0.0 CR-0060 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221158 Rel-15 CR TS 28.662 Update Generic RAN NRM to be applicable for SBMA**

*Type: CR For: Agreement  
 28.662 v15.3.0 CR-0012 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei*

(Replaces S5-216618)

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

**S5-221159 Rel-16 CR TS 28.662 Update Generic RAN NRM to be applicable for SBMA**

*Type: CR For: Agreement  
 28.662 v16.0.0 CR-0013 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei*

(Replaces S5-216619)

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

**S5-221174 Rel-16 CR TS 28.541 Remove incorrect reference to 22.104**

*Type: CR For: Agreement  
 28.541 v16.11.0 CR-0654 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-221175 Rel-17 CR TS 28.541 Remove incorrect reference to 22.104**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0655 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

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

**S5-221176 Rel-16 CR TS 28.541 Change the datatype of RRMPolicyRatio to real**

*Type: CR For: Agreement  
 28.541 v16.11.0 CR-0656 Cat: F (Rel-16)  
  
 Source: ZTE Corporation, China Mobile, China Telecom*

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

**S5-221178 Rel-17 CR TS 28.541 Change the datatype of RRMPolicyRatio to real**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0657 Cat: A (Rel-17)  
  
 Source: ZTE Corporation, China Mobile, China Telecom*

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

**S5-221274 Rel-16 CR 28.622 Add missing definitions of common data types**

*Type: CR For: Approval  
 28.622 v16.10.0 CR-0107 rev 3 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-216287)

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

**S5-221328 Correct YANG Network Slice NRM solution set reference**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0136 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221374 Rel-17 CR 28.541 Update maximumDeviationHoTrigger**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0671 Cat: C (Rel-17)  
  
 Source: Ericsson France S.A.S*

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

**S5-221375 Rel-16 CR 28.552 Correct wording and header**

*Type: CR For: Approval  
 28.552 v16.12.0 CR-0355 Cat: F (Rel-16)  
  
 Source: Ericsson France S.A.S*

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

**S5-221376 Rel-17 CR 28.552 Correct wording and header**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0356 Cat: A (Rel-17)  
  
 Source: Ericsson France S.A.S*

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

**S5-221390 Correct YANG Network Slice NRM solution set reference**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0672 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221403 Rel-16 CR 28.622 Structuring of TraceJob IOC and Clean Up**

*Type: CR For: Approval  
 28.622 v16.10.0 CR-0139 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221404 Rel-17 CR 28.622 Structuring of TraceJob IOC and Clean Up**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0140 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221405 Rel-17 CR 28.623 Structuring of TraceJob IOC and Clean Up**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0152 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221411 Rel-16 CR 32.422 Alignment of parameter names and clean up**

*Type: CR For: Approval  
 32.422 v16.8.0 CR-0389 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-221524**.

**S5-221524 Rel-16 CR 32.422 Alignment of parameter names and clean up**

*Type: CR For: Approval  
 32.422 v16.8.0 CR-0389 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-221411)

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

**S5-221412 Rel-17 CR 32.422 Alignment of parameter names and clean up**

*Type: CR For: Approval  
 32.422 v17.5.0 CR-0390 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-221525**.

**S5-221525 Rel-17 CR 32.422 Alignment of parameter names and clean up**

*Type: CR For: Approval  
 32.422 v17.5.0 CR-0390 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-221412)

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

**S5-221488 Correct YANG mapping in TS document**

*Type: CR For: Approval  
 28.541 v16.11.0 CR-0677 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-221489 Correct YANG mapping in TS document**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0678 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-221495 Rel-16 CR TS 32.422 Correct the value of Report Interval in NR for alignment**

*Type: CR For: Agreement  
 32.422 v16.8.0 CR-0391 Cat: F (Rel-16)  
  
 Source: China Telecom*

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

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

#### 6.4.1 Management of non-public networks

**S5-221033 pCR 28.557 Correct typo in clause 4.6.2**

*Type: pCR For: Approval  
 28.557 v1.2.0  
 Source: TELEFONICA S.A.*

**Abstract:**

It is proposed to fix a typo in clause 4.6.2.

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

**S5-221037 pCR 28.557 Correct typo in clause 4.6.2**

*Type: pCR For: Approval  
 28.557 v1.2.0  
 Source: TELEFONICA S.A.*

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

**S5-221038 pCR 28.557 Add new NPN management related requirements**

*Type: pCR For: Approval  
 28.557 v1.2.0  
 Source: TELEFONICA S.A.*

**Abstract:**

It is proposed to include new requirements concerning NPN management, according to service requirements captured in 3GPP TS 22.261.

**Decision:** The document was **revised to S5-221526**.

**S5-221526 pCR 28.557 Add new NPN management related requirements**

*Type: pCR For: Approval  
 28.557 v1.2.0  
 Source: TELEFONICA S.A.*

(Replaces S5-221038)

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

**S5-221081 pCR 28.557 fixing leftover of updating names for management modes of NPN**

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

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

**S5-221082 pCR 28.557 Solution for management of SNPN**

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

**Decision:** The document was **revised to S5-221527**.

**S5-221527 pCR 28.557 Solution for management of SNPN**

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

(Replaces S5-221082)

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

**S5-221083 pCR 28.557 Update solution for NPN provisioning by a network slice of a PLMN**

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

**Decision:** The document was **revised to S5-221528**.

**S5-221528 pCR 28.557 Update solution for NPN provisioning by a network slice of a PLMN**

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

(Replaces S5-221083)

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

**S5-221084 pCR 28.557 Solution for exposure of management capability of PNI-NPN**

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

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

**S5-221085 pCR 28.557 Solution for collecting UE related data**

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

**Decision:** The document was **revised to S5-221529**.

**S5-221529 pCR 28.557 Solution for collecting UE related data**

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

(Replaces S5-221085)

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

**S5-221086 pCR 28.557 Use case of collecting UE related data**

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

**Decision:** The document was **revised to S5-221530**.

**S5-221530 pCR 28.557 Use case of collecting UE related data**

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

(Replaces S5-221086)

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

**S5-221087 pCR 28.557 Rapporteur proposal**

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

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

**S5-221088 Presentation sheet of TS 28.557 for Approval**

*Type: TS or TR cover For: Approval  
 28.557 v2.0.0  
 Source: Huawei*

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

**S5-221746 Latest draft TS 28.557**

*Type: draft TR For: Approval  
 28.557 v1.3.0  
 Source: Huawei*

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

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

**S5-221030 Rel-17 CR 28.541 Update Figure L.2.1 and accompanying paragraph.**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0642 Cat: F (Rel-17)  
  
 Source: TELEFONICA S.A.*

**Abstract:**

The CR agreed in S5-215649 was partially approved at SA#94e. The change proposed for figure L.2.1 and accompanying paragraph was not approved. The reason is that the new figure contains the GSMA logo, which is trademark (for legal implications we are not

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

**S5-221035 Rel-17 CR 28.541 Update RANSliceSubnetProfile attributes**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0645 Cat: F (Rel-17)  
  
 Source: TELEFONICA S.A.*

**Decision:** The document was **revised to S5-221531**.

**S5-221531 Rel-17 CR 28.541 Update RANSliceSubnetProfile attributes**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0645 rev 1 Cat: F (Rel-17)  
  
 Source: TELEFONICA S.A.*

(Replaces S5-221035)

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

**S5-221061 TS28.540 Update the requirements for management enhancement of network slice and network slice subnet**

*Type: CR For: Approval  
 28.540 v17.2.0 CR-0017 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221080 Rel-17 CR 28.541 Update energy efficiency attribute**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0651 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221532**.

**S5-221532 Rel-17 CR 28.541 Update energy efficiency attribute**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0651 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221080)

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

**S5-221254 TS 28.541 Clean up of eMA5SLA**

*Type: CR For: (not specified)  
 28.541 v17.5.0 CR-0666 Cat: F (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **revised to S5-221533**.

**S5-221533 TS 28.541 Clean up of eMA5SLA**

*Type: CR For: -  
 28.541 v17.5.0 CR-0666 rev 1 Cat: F (Rel-17)  
  
 Source: CMCC*

(Replaces S5-221254)

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

**S5-221268 Add S-NSSAI mapping to support National Roaming**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0669 Cat: B (Rel-17)  
  
 Source: Ericsson India Private Limited (TSDSI)*

**Abstract:**

Add S-NSSAI mapping to support National Roaming

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

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

**S5-221166 Add MDT reporting for NR**

*Type: CR For: Approval  
 32.422 v16.8.0 CR-0385 Cat: B (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-221168 Add MDT reporting for NR**

*Type: CR For: Approval  
 32.422 v17.5.0 CR-0386 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221534**.

**S5-221534 Add MDT reporting for NR**

*Type: CR For: Approval  
 32.422 v17.5.0 CR-0386 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221168)

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

**S5-221170 Add MDT signalling activation and deactivation mechanisms in a split architecture for NR**

*Type: CR For: Approval  
 32.422 v17.5.0 CR-0387 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221535**.

**S5-221535 Add MDT signalling activation and deactivation mechanisms in a split architecture for NR**

*Type: CR For: Approval  
 32.422 v17.5.0 CR-0387 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221170)

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

**S5-221172 Add MDT management activation and deactivation mechanism in the case of split architecture for NR**

*Type: CR For: (not specified)  
 32.422 v17.5.0 CR-0388 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221536**.

**S5-221536 Add MDT management activation and deactivation mechanism in the case of split architecture for NR**

*Type: CR For: -  
 32.422 v17.5.0 CR-0388 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221172)

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

**S5-221406 Rel-17 CR 28.622 Add parameter to configure beam level measurements in NR MDT**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0141 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221407 Rel-17 CR 28.623 Add parameter to configure beam level measurements in NR MDT**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0153 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221433 pCR 28.824 Update position and add solution for direct MnS exposure**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Lenovo (Beijing) Ltd*

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

#### 6.4.4 Additional NRM features

**S5-221022 Discussion paper on Asynchronous interactions**

*Type: discussion For: Endorsement  
 28.622 v..  
 Source: Ericsson Hungary Ltd*

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

**S5-221023 Asynchronous operation NRM additions**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0126 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221549**.

**S5-221549 Asynchronous operation NRM additions**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0126 rev 1 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd,Nokia*

(Replaces S5-221023)

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

**S5-221024 Asynchronous operation NRM additions - YANG Stage 3**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0144 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-221550**.

**S5-221550 Asynchronous operation NRM additions - YANG Stage 3**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0144 rev 1 Cat: C (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-221024)

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

**S5-221029 Fix stage3 definition for 5G\_DDNMF**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0641 Cat: F (Rel-17)  
  
 Source: CATT*

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

**S5-221034 Fixing lists errors in AmfFunction-Single (stage 3)**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0644 Cat: F (Rel-17)  
  
 Source: Nokia Germany*

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

**S5-221036 Enhance 5G Core managed NF Profile NRM fragment (Stage 2)**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0646 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

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

**S5-221045 Enhance 5G Core managed NF Profile NRM fragment (Stage 3)**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0647 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

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

**S5-221060 Rel-17 network slice isolation**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0648 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221149 Revised WID for additional NRM features**

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

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

**S5-221160 Rel-17 CR TS 28.622 Add condition information for threshold monitoring**

*Type: CR For: Agreement  
 28.622 v17.0.0 CR-0119 rev 2 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-216343)

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

**S5-221180 NRM enhacements for SMFFunction**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0658 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221555**.

**S5-221555 NRM enhacements for SMFFunction**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0658 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

(Replaces S5-221180)

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

**S5-221205 Rel-17 CR 28.541 Add containment name in IMS SBA nodes**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0661 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-221206 Rel-17 CR 28.541 Add N70 N71 stage 3**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0662 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-221207 Rel17 CR 28.541 CN related informtion in EP\_Transport**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0663 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-221255 TS 28.541 Update 5G NRM to solve CR clash in Figure 5.2.1.2**

*Type: CR For: (not specified)  
 28.541 v17.5.0 CR-0667 Cat: F (Rel-17)  
  
 Source: CMCC,CATT*

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

**S5-221284 NRM enhancements for the SMFFunction (stage 3)**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0670 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221556**.

**S5-221556 NRM enhancements for the SMFFunction (stage 3)**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0670 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia Germany*

(Replaces S5-221284)

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

**S5-221399 Update 5GC NRM for 5G\_DDNMF**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0674 Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-221516**.

**S5-221516 Update 5GC NRM for 5G\_DDNMF**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0674 rev 1 Cat: F (Rel-17)  
  
 Source: CATT*

(Replaces S5-221399)

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

**S5-221402 Rel-17 CR 28.622 Add data type to enable operations such as threshold monitoring or data collection according to a schedule**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0138 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221428 Rel-17 CR 28.623 Add data type to enable operations such as threshold monitoring or data collection according to a schedule**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0143 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221566 TS 28.541 Correct NR YAML in TS document**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0679 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-221567 TS 28.541 Correct 5GC YAML in TS document**

*Type: CR For: discussion  
 28.541 v17.5.0 CR-0680 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-221568 TS 28.541 Correct NetworkSlicing YAML in TS document**

*Type: CR For: discussion  
 28.541 v17.5.0 CR-0681 Cat: F (Rel-17)  
  
 Source: Huawei*

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

#### 6.4.5 Enhancement of QoE Measurement Collection

**S5-221041 Adding Management Based Activation and Temporary stop and restart during RAN overload in NR**

*Type: CR For: Approval  
 28.405 v17.0.0 CR-0005 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-221042 Adding Signalling Based Activation for NR**

*Type: CR For: Approval  
 28.405 v17.0.0 CR-0006 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-221557**.

**S5-221557 Adding Signalling Based Activation for NR**

*Type: CR For: Approval  
 28.405 v17.0.0 CR-0006 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

(Replaces S5-221042)

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

**S5-221043 Handling of QoE measurement collection at handover in NR**

*Type: CR For: Approval  
 28.405 v17.0.0 CR-0007 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-221044 Adding VR measurements**

*Type: CR For: Approval  
 28.404 v17.0.0 CR-0006 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-221331 Add QMC job**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0137 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221356 Update to include NR and adding VR**

*Type: CR For: Approval  
 28.405 v17.0.0 CR-0008 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-221392 Add QMC job, stage 3 YANG module**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0151 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221415 Adding QMC job**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0142 Cat: B (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-221763 Exception sheet for eQoE**

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

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

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

**S5-221017 Discussion on RACH NSA measurements**

*Type: discussion For: Endorsement  
 28.552 v..  
 Source: Nokia Solutions & Networks (I)*

**Decision:** The document was **revised to S5-221537**.

**S5-221537 Discussion on RACH NSA measurements**

*Type: discussion For: Endorsement  
 28.552 v..  
 Source: Nokia Solutions & Networks (I)*

(Replaces S5-221017)

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

**S5-221058 Add Space Division Multiplexing PRB Usage for MIMO cell**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0341 Cat: B (Rel-17)  
  
 Source: CMCC, Huawei, ZTE*

**Abstract:**

Introduce the computing scheme for PRB usage in MIMO scenario, which has been agreed in RAN2 meeting recently.

**Decision:** The document was **revised to S5-221538**.

**S5-221538 Add Space Division Multiplexing PRB Usage for MIMO cell**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0341 rev 1 Cat: B (Rel-17)  
  
 Source: CMCC, Huawei, ZTE*

(Replaces S5-221058)

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

**S5-221177 Rel-17 CR TS 28.552 Remove the number of failed conditional handover executions which is not implementable**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0342 Cat: F (Rel-17)  
  
 Source: China Telecom Corporation Ltd., ZTE*

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

**S5-221193 Rel-17 CR TS 28.552 Add one more trigger point to the Number of failed DAPS handover preparations performance measurement**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0343 Cat: F (Rel-17)  
  
 Source: China Telecom Corporation Ltd., ZTE*

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

**S5-221236 Rel-17 CR TS 28.552 Modify description of MIMO PRB usage for cell**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0344 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **revised to S5-221539**.

**S5-221539 Rel-17 CR TS 28.552 Modify description of MIMO PRB usage for cell**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0344 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom*

(Replaces S5-221236)

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

**S5-221237 Rel-17 CR TS 28.552 Modify description of sampling occasion for scheduled layers**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0345 Cat: F (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **revised to S5-221540**.

**S5-221540 Rel-17 CR TS 28.552 Modify description of sampling occasion for scheduled layers**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0345 rev 1 Cat: F (Rel-17)  
  
 Source: China Unicom*

(Replaces S5-221237)

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

**S5-221257 S5-xxxxxx Rel-17 CR TS 28.552 Adding new packets based performance measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0346 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

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

**S5-221264 S5-xxxxxx Rel-17 CR TS 28.552 Updating packets based performance measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0347 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

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

**S5-221266 S5-xxxxxx Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network**

*Type: CR For: Approval  
 28.554 v17.5.0 CR-0089 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

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

**S5-221340 Editorial clean up of mobilty KPIs HO success rate**

*Type: CR For: Approval  
 28.554 v16.8.0 CR-0090 Cat: F (Rel-16)  
  
 Source: Ericsson Limited*

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

**S5-221344 CR Rel-17 28.552 Add measurements related to location context transfer for LMF**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0353 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221543**.

**S5-221543 CR Rel-17 28.552 Add measurements related to location context transfer for LMF**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0353 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221344)

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

**S5-221345 Editorial clean up of mobilty KPIs HO success rate**

*Type: CR For: Approval  
 28.554 v17.5.0 CR-0091 Cat: A (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-221346 CR Rel-17 28.552 Add measurements related to location determination for LMF**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0354 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221544**.

**S5-221544 CR Rel-17 28.552 Add measurements related to location determination for LMF**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0354 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221346)

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

**S5-221413 Rel-17 CR 28.552 Enhance PM on Handover failures per beam related to MRO for intra-system mobility**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0358 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221414 Rel-17 CR 28.552 Add PM on Angle of Arrival**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0359 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221450 Rel-17 CR TS 28.552 Adding new packets based performance measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0360 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

**Decision:** The document was **revised to S5-221545**.

**S5-221545 Rel-17 CR TS 28.552 Adding new packets based performance measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0360 rev 1 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

(Replaces S5-221450)

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

**S5-221451 Rel-17 CR TS 28.552 Updating packets based performance measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0361 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

**Decision:** The document was **revised to S5-221541**.

**S5-221541 Rel-17 CR TS 28.552 Updating packets based performance measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0361 rev 1 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

(Replaces S5-221451)

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

**S5-221452 Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0362 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

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

**S5-221542 Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network**

*Type: CR For: Agreement  
 28.554 v17.5.0 CR-0093 Cat: B (Rel-17)  
  
 Source: Harman GmbH*

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

#### 6.4.7 Management of the enhanced tenant concept

**S5-221161 Rel-17 CR TS 28.541 Add tenant IOC to support multiple tenant environment**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0538 rev 3 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-216228)

**Decision:** The document was **revised to S5-221558**.

**S5-221558 Rel-17 CR TS 28.541 Add tenant IOC to support multiple tenant environment**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0538 rev 4 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221161)

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

**S5-221221 Rel-17 CR 28,541 Update SericeProfile and SliceProfile**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0664 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-221222 Rel-17 CR TS 28.533 Add tenant solution description**

*Type: CR For: Agreement  
 28.533 v17.1.0 CR-0099 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-221223 Revised work item on management of the enhanced tenant concept**

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

**Decision:** The document was **revised to S5-221738**.

**S5-221738 Revised work item on management of the enhanced tenant concept**

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

(Replaces S5-221223)

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

**S5-221409 Discussion paper on Management Data Collection Job**

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

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

#### 6.4.8 Management data collection control and discovery

**S5-221280 Rel-17 InputToDraftCR 28.537 Targeted management data collection**

*Type: other For: (not specified)  
 28.537 v..  
 Source: Samsung Electronics Benelux BV*

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

**S5-221281 Rel-17 InputToDraftCR 28.622 ManagementDataSubscription**

*Type: other For: Agreement  
 28.622 v..  
 Source: Samsung, Ericsson*

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

**S5-221362 Rel-17 Input to DraftCR 28.537 Add requirements for context data**

*Type: other For: Approval  
 28.622 v..  
 Source: Nokia, Nokia Shanghai ell*

(Replaces S5-216293)

**Decision:** The document was **revised to S5-221559**.

**S5-221559 Rel-17 Input to DraftCR 28.537 Add requirements for context data**

*Type: other For: Approval  
 28.622 v..  
 Source: Nokia, Nokia Shanghai ell*

(Replaces S5-221362)

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

**S5-221363 Rel-17 Input to DraftCR 28.537 Add requirements for managing external management data**

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

(Replaces S5-216292)

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

**S5-221364 Rel-17 Input to DraftCR 28.622 Add solution for reporting and storing data**

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

(Replaces S5-216294)

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

**S5-221401 Rel-17 Input to DraftCR 28.622 Add data collection job to allow consumers without detailed knowledge of the network to request for data**

*Type: draftCR For: Approval  
 28.622 v17.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221410 Rel-17 draftCR 28.537 Add requirements for data management**

*Type: draftCR For: Approval  
 28.537 v17.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-216098)

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

**S5-221419 Rel-17 Input to DraftCR 28.622 Add solution for data discovery**

*Type: draftCR For: Approval  
 28.622 v17.0.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-221576 Revised WID for MADCOL**

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

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

**S5-221577 Exception Sheet for MADCOL**

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

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

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

**S5-221078 pCR TS 28.312 Add feasibility check to the procedures for intent management**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-221584**.

**S5-221584 pCR TS 28.312 Add feasibility check to the procedures for intent management**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-221078)

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

**S5-221131 pCR TS 28.312 Rapporteur clean up**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221585**.

**S5-221585 pCR TS 28.312 Rapporteur clean up**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei*

(Replaces S5-221131)

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

**S5-221132 pCR TS 28.312 Align the description for general concept of intent content**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei,Nokia, Deutsche Telekom,AsiaInfo*

**Decision:** The document was **revised to S5-221580**.

**S5-221580 pCR TS 28.312 Align the description for general concept of intent content**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei,Nokia, Deutsche Telekom,AsiaInfo*

(Replaces S5-221132)

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

**S5-221133 pCR TS 28.312 Update intent information model**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei, China Mobile, China Unicom, Nokia, Deutsche Telekom,AsiaInfo*

**Decision:** The document was **revised to S5-221581**.

**S5-221581 pCR TS 28.312 Update intent information model**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei, China Mobile, China Unicom, Nokia, Deutsche Telekom,AsiaInfo*

(Replaces S5-221133)

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

**S5-221134 pCR TS 28.312 Update RadioNetworkExpectation**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei, China Mobile, China Unicom,, Deutsche Telekom*

**Decision:** The document was **revised to S5-221575**.

**S5-221575 pCR TS 28.312 Update RadioNetworkExpectation**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei, China Mobile, China Unicom,, Deutsche Telekom*

(Replaces S5-221134)

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

**S5-221135 pCR TS 28.312 Clean up on procedures**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-221582**.

**S5-221582 pCR TS 28.312 Clean up on procedures**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-221135)

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

**S5-221153 pCR TS 28.312 add stage3 for intent NRM**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Huawei*

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

**S5-221154 Presentation sheet of TS 28.312 for SA Information and Approval**

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

**Decision:** The document was **revised to S5-221583**.

**S5-221583 Presentation sheet of TS 28.312 for SA Information and Approval**

*Type: TS or TR cover For: Approval  
 28.312 v..  
 Source: Huawei*

(Replaces S5-221154)

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

**S5-221234 pCR 28.312 Update the clause 4.5, 6.2.1 and annex A to align with intent definition**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: China Mobile Com. Corporation*

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

**S5-221238 Update intent fulfillment tracking in information model**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Nokia Germany*

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

**S5-221260 pCR TS 28.312 Add attributes of the IntentReport**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: AsiaInfo*

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

**S5-221261 pCR TS 28.312 update clause 4.2.2 and clause 6.3.3**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: AsiaInfo*

**Decision:** The document was **revised to S5-221755**.

**S5-221755 pCR TS 28.312 update clause 4.2.2 and clause 6.3.3**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: AsiaInfo*

(Replaces S5-221261)

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

**S5-221384 pCR 28.312 ServiceDeploymentExpectation definition**

*Type: pCR For: Agreement  
 28.312 v0.7.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221754**.

**S5-221754 pCR 28.312 ServiceDeploymentExpectation definition**

*Type: pCR For: Agreement  
 28.312 v0.7.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221384)

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

**S5-221420 Technical Discussion on TTM reduction for new Service offerings**

*Type: discussion For: Endorsement  
 28.312 v..  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-221421 Update intent information model**

*Type: pCR For: Approval  
 28.312 v0.7.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-221747 Latest draft TS 28.312**

*Type: draft TS For: Approval  
 28.312 v0.8.0  
 Source: Huawei*

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

**S5-221764 Exception Sheet for IDMS\_MN**

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

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

#### 6.4.10 Enhanced Closed loop SLS Assurance

**S5-221048 Editorial on the definition of AssuranceClosedControlLoop**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0037 Cat: D (Rel-17)  
  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221586**.

**S5-221586 Editorial on the definition of AssuranceClosedControlLoop**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0037 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia Germany*

(Replaces S5-221048)

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

**S5-221197 Fixing the "S" qualifier**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0038 Cat: D (Rel-17)  
  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221587**.

**S5-221587 Fixing the "S" qualifier**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0038 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia Germany*

(Replaces S5-221197)

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

**S5-221383 Add Annex with code of UML diagrams**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0039 Cat: B (Rel-17)  
  
 Source: Ericsson GmbH, Eurolab, Deutsche Telekom*

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

**S5-221385 Update assurance scope data type description**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0040 Cat: F (Rel-17)  
  
 Source: Ericsson GmbH, Eurolab, Deutsche Telekom*

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

**S5-221386 Discussion paper on cleaning up the eCosla stage 2 descriptions**

*Type: discussion For: Discussion  
 Source: Ericsson GmbH, Eurolab, Deutsche Telekom*

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

**S5-221387 Input to draftCR TS 28.536 clean up stage 2 descriptions**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0041 Cat: C (Rel-17)  
  
 Source: Ericsson GmbH, Eurolab, Deutsche Telekom*

**Decision:** The document was **revised to S5-221588**.

**S5-221588 Input to draftCR TS 28.536 clean up stage 2 descriptions**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0041 rev 1 Cat: C (Rel-17)  
  
 Source: Ericsson GmbH, Eurolab, Deutsche Telekom*

(Replaces S5-221387)

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

**S5-221515 Input to draftCR TS 28.536 clean up stage 2 descriptions**

*Type: other For: Approval  
 28.536 v17.1.0  
 Source: Ericsson GmbH, Eurolab, Deutsche Telekom*

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

**S5-221388 Discussion paper on communication service assurance and closed control loops**

*Type: discussion For: Endorsement  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221389 Discussion paper on eCosla completion**

*Type: discussion For: Discussion  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-221589**.

**S5-221589 Discussion paper on eCosla completion**

*Type: discussion For: Discussion  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-221389)

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

**S5-221391 Revised WID on Enhanced Closed loop SLS assurance**

*Type: WID revised For: Information  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-221590**.

**S5-221590 Revised WID on Enhanced Closed loop SLS assurance**

*Type: WID revised For: Information  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-221391)

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

**S5-221442 R17 CR 28.536 Add Solution for Pause point**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0042 Cat: B (Rel-17)  
  
 Source: Lenovo, Motorola Mobility*

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

**S5-221443 R17 CR 28.536 Add Solution for Pause point**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0043 Cat: B (Rel-17)  
  
 Source: Lenovo (Beijing) Ltd*

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

**S5-221444 CR 28.536 Add Solution for disabling CL action**

*Type: CR For: Approval  
 28.536 v17.1.0 CR-0044 Cat: B (Rel-17)  
  
 Source: Lenovo (Beijing) Ltd*

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

**S5-221445 REl 17 CR 28.535 Convert draft CR S5-215622**

*Type: CR For: (not specified)  
 28.535 v17.4.0 CR-0064 Cat: B (Rel-17)  
  
 Source: Lenovo (Beijing) Ltd*

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

**S5-221765 Exception Sheet for eCOSLA**

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

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

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

**S5-221072 Rel-17 CR 28.541 Correct NRM fragment for DMRO Management**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0649 Cat: F (Rel-17)  
  
 Source: Intel*

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

**S5-221074 Rel-17 CR 28.313 Add information in the PCI configuration notification**

*Type: CR For: Approval  
 28.313 v17.3.0 CR-0045 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221591**.

**S5-221591 Rel-17 CR 28.313 Add information in the PCI configuration notification**

*Type: CR For: Approval  
 28.313 v17.3.0 CR-0045 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221074)

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

**S5-221075 Rel-17 CR 28.313 Add information in the C-SON notification**

*Type: CR For: Approval  
 28.313 v17.3.0 CR-0046 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221592**.

**S5-221592 Rel-17 CR 28.313 Add information in the C-SON notification**

*Type: CR For: Approval  
 28.313 v17.3.0 CR-0046 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221075)

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

**S5-221191 Rel-17 CR 28.541 Add C-SON CCO NRM model stage2**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0659 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221594**.

**S5-221594 Rel-17 CR 28.541 Add C-SON CCO NRM model stage2**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0659 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221191)

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

**S5-221192 Rel-17 CR 28.541 Add C-SON CCO NRM model stage3**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0660 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221593**.

**S5-221593 Rel-17 CR 28.541 Add C-SON CCO NRM model stage3**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0660 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221192)

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

**S5-221382 Correct maximumDeviationHoTrigger**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0633 rev 1 Cat: C (Rel-17)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-216326)

**Decision:** The document was **revised to S5-221517**.

**S5-221517 Correct maximumDeviationHoTrigger**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0633 rev 2 Cat: C (Rel-17)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-221382)

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

#### 6.4.12 Enhancement of Handover Optimization

**S5-221377 Rel-17 CR 28.552 Conditional handover measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0357 Cat: B (Rel-17)  
  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-221595**.

**S5-221595 Rel-17 CR 28.552 Conditional handover measurements**

*Type: CR For: Approval  
 28.552 v17.5.0 CR-0357 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-221377)

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

**S5-221378 Rel-17 CR 28.554 Add KPI for HO success rate for all handover types**

*Type: CR For: Approval  
 28.554 v17.5.0 CR-0092 Cat: B (Rel-17)  
  
 Source: Ericsson France S.A.S*

**Decision:** The document was **revised to S5-221596**.

**S5-221596 Rel-17 CR 28.554 Add KPI for HO success rate for all handover types**

*Type: CR For: Approval  
 28.554 v17.5.0 CR-0092 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson France S.A.S*

(Replaces S5-221378)

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

**S5-221379 Input to Draft CR 28.313 E\_HOO End-of-release cleanup**

*Type: other For: Approval  
 28.313 v..  
 Source: Ericsson France S.A.S*

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

**S5-221380 WID Enhancement\_Handover\_optimization**

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

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

**S5-221381 DraftCR for E-HOO - TS 28.313**

*Type: draftCR For: Approval  
 28.313 v17.3.0  
 Source: Ericsson France S.A.S*

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

**S5-221400 Revised WID on Enhancement of Handover Optimization**

*Type: WID revised For: Agreement  
 Source: Ericsson France S.A.S*

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

**S5-221756 MRO additions for CHO and DAPS handover**

*Type: CR For: Agreement  
 28.313 v17.3.0 CR-0047 Cat: C (Rel-17)  
  
 Source: Ericsson France*

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

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

**S5-221208 Discussion on solutions for discovery of management services in 5G**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-221209 Rel-17 CR 28.622 Add support for discovery of managed entities**

*Type: CR For: Agreement  
 28.622 v17.0.0 CR-0133 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221597**.

**S5-221597 Rel-17 CR 28.622 Add support for discovery of managed entities**

*Type: CR For: Agreement  
 28.622 v17.0.0 CR-0133 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221209)

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

**S5-221210 Rel-17 CR 28.623 Add support for discovery of managed entities**

*Type: CR For: Agreement  
 28.623 v17.0.0 CR-0147 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221598**.

**S5-221598 Rel-17 CR 28.623 Add support for discovery of managed entities**

*Type: CR For: Agreement  
 28.623 v17.0.0 CR-0147 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221210)

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

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

**S5-221136 Rel-17 CR TS 28.541 Alignment on NR NRM for MOCN network sharing**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0652 Cat: F (Rel-17)  
  
 Source: Huawei,Orange,China Mobile,China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica*

**Decision:** The document was **revised to S5-221599**.

**S5-221599 Rel-17 CR TS 28.541 Alignment on NR NRM for MOCN network sharing**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0652 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei,Orange,China Mobile,China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica*

(Replaces S5-221136)

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

**S5-221137 Rel-17 CR TS 32.130 Clean up on concept and business level requirements**

*Type: CR For: Agreement  
 32.130 v17.3.0 CR-0017 Cat: F (Rel-17)  
  
 Source: Huawei, China Unicom,China Telecom*

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

**S5-221138 Rel-17 CR TS 32.130 Add missing use case and requirements for radio resources partitioning between POPs**

*Type: CR For: Agreement  
 32.130 v17.3.0 CR-0018 Cat: B (Rel-17)  
  
 Source: Huawei, China Unicom,China Telecom*

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

**S5-221139 Rel-17 CR TS 32.130 Add solution description for the requirements for the management of the shared NG-RAN NE(s) in MOCN network sharing scenario**

*Type: CR For: Agreement  
 32.130 v17.3.0 CR-0019 Cat: B (Rel-17)  
  
 Source: Huawei,Orange,China Mobile, China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica*

**Decision:** The document was **revised to S5-221600**.

**S5-221600 Rel-17 CR TS 32.130 Add solution description for the requirements for the management of the shared NG-RAN NE(s) in MOCN network sharing scenario**

*Type: CR For: Agreement  
 32.130 v17.3.0 CR-0019 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei,Orange,China Mobile, China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica*

(Replaces S5-221139)

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

**S5-221169 Rel-17 CR TS 32.130 Add administrative management capability requirements**

*Type: CR For: Agreement  
 32.130 v17.3.0 CR-0020 Cat: B (Rel-17)  
  
 Source: ZTE Corporation, China Unicom*

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

**S5-221171 Rel-17 CR TS 28.541 Add administrativeState attribute in OperatorNRCellDU**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0653 Cat: B (Rel-17)  
  
 Source: ZTE Corporation, China Unicom*

**Decision:** The document was **revised to S5-221601**.

**S5-221601 Rel-17 CR TS 28.541 Add administrativeState attribute in OperatorNRCellDU**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0653 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE Corporation, China Unicom*

(Replaces S5-221171)

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

#### 6.4.15 Enhancements of Management Data Analytics Service

**S5-221046 Including individual PM, KPI, trace and QoE statistics and predictions as additional MDA types**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221602**.

**S5-221602 Including individual PM, KPI, trace and QoE statistics and predictions as additional MDA types**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: Nokia Germany*

(Replaces S5-221046)

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

**S5-221076 CR Rel-17 28.622 Enhance NRM with geographical information supporting MDA**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0131 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221604**.

**S5-221604 CR Rel-17 28.622 Enhance NRM with geographical information supporting MDA**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0131 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221076)

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

**S5-221077 CR Rel-17 28.623 Enhance NRM with geographical information supporting MDA**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0146 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221605**.

**S5-221605 CR Rel-17 28.623 Enhance NRM with geographical information supporting MDA**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0146 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221077)

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

**S5-221140 pCR TS28.104 Add E2E latency analysis solution**

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

**Decision:** The document was **revised to S5-221609**.

**S5-221609 pCR TS28.104 Add E2E latency analysis solution**

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

(Replaces S5-221140)

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

**S5-221141 pCR TS 28.104 add E2E latency analysis solution - stage3**

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

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

**S5-221142 pCR TS28.104 Add service experience analysis solution**

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

**Decision:** The document was **revised to S5-221712**.

**S5-221712 pCR TS28.104 Add service experience analysis solution**

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

(Replaces S5-221142)

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

**S5-221143 pCR TS 28.104 add service experience analysis solution -stage3**

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

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

**S5-221144 pCR TS28.104 Add network slice throughput analysis solution**

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

**Decision:** The document was **revised to S5-221610**.

**S5-221610 pCR TS28.104 Add network slice throughput analysis solution**

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

(Replaces S5-221144)

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

**S5-221145 pCR TS 28.104 add network slice throughput analysis solution - stage3**

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

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

**S5-221146 pCR TS28.104 Add network slice load analysis solution**

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

**Decision:** The document was **revised to S5-221611**.

**S5-221611 pCR TS28.104 Add network slice load analysis solution**

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

(Replaces S5-221146)

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

**S5-221147 pCR TS 28.104 add network slice load analysis solution - stage3**

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

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

**S5-221182 pCR TS 28.104 add Energy saving analytics output solution --stage2**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

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

**S5-221183 pCR TS 28.104 add coverage issue analytics output area definition--stage2**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221606**.

**S5-221606 pCR TS 28.104 add coverage issue analytics output area definition--stage2**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

(Replaces S5-221183)

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

**S5-221184 pCR TS 28.104 add output stage3 for Energy saving analytics and coverage issue analytics**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

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

**S5-221185 pCR TS 28.104 add AnalticsOutputFilters of coverage issue analysis stage2**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

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

**S5-221186 pCR TS 28.104 add reporting method**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

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

**S5-221187 pCR TS 28.104 add report control NRM stage3**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

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

**S5-221188 pCR TS 28.104 add MDA analysis request and report generic workflow**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

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

**S5-221189 pCR TS 28.104 add MDA related service components**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221621**.

**S5-221621 pCR TS 28.104 add MDA related service components**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

(Replaces S5-221189)

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

**S5-221190 pCR TS28.104 Add the requirements for ML model training for MDA**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221614**.

**S5-221614 pCR TS28.104 Add the requirements for ML model training for MDA**

*Type: pCR For: Approval  
 28.104 v17.3.0  
 Source: Huawei*

(Replaces S5-221190)

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

**S5-221217 pCR 28.104 Add description of coordinated analysis**

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

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

**S5-221218 pCR 28.104 Requirements cleanup**

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

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

**S5-221219 Rel-17 PCR TS 28.104 Add Alarm analytics solution-stage 2**

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

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

**S5-221220 Rel-17 PCR TS 28.104 Add Alarm analytics solution-stage 3**

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

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

**S5-221250 pCR 28.104 Update use case and requirement for MDA assisted energy saving analysis**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: China Telecom Corporation Ltd.*

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

**S5-221251 pCR 28.104 Add MDA capability for MDA assisted energy saving analysis**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: China Telecom Corporation Ltd.*

**Decision:** The document was **revised to S5-221612**.

**S5-221612 pCR 28.104 Add MDA capability for MDA assisted energy saving analysis**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: China Telecom Corporation Ltd.*

(Replaces S5-221251)

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

**S5-221271 pCR draft TS28.104, Rapporteur clean-**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: NEC, Intel*

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

**S5-221273 pCR draft TS28.104, further clarifications and supporting text for clause 6.3 MDA role in cross-domain service assurance**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: NEC, Intel*

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

**S5-221292 pCR 28.104 add alarm analysis**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: China Mobile Com. Corporation*

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

**S5-221293 pCR 28.104 add inter-gNB beam selection optimization solution**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: China Mobile Com. Corporation*

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

**S5-221294 pCR 28.104 Add MDA assisted energy saving solution**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: China Mobile Com. Corporation*

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

**S5-221299 Add MDA context**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221615**.

**S5-221615 Add MDA context**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: Nokia Germany*

(Replaces S5-221299)

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

**S5-221302 Add MDA types**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: Nokia Germany*

**Decision:** The document was **revised to S5-221603**.

**S5-221603 Add MDA types**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: Nokia Germany*

(Replaces S5-221302)

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

**S5-221332 pCR 28.105 Add scope**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-221616**.

**S5-221616 pCR 28.105 Add scope**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel, NEC*

(Replaces S5-221332)

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

**S5-221333 pCR 28.105 Add overview**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-221617**.

**S5-221617 pCR 28.105 Add overview**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel, NEC*

(Replaces S5-221333)

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

**S5-221334 pCR 28.105 Add service framework for AI-ML model training**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-221618**.

**S5-221618 pCR 28.105 Add service framework for AI-ML model training**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel, NEC*

(Replaces S5-221334)

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

**S5-221335 pCR 28.105 Move in ML model training part from TS 28.104**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel*

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

**S5-221336 pCR 28.105 Add NRMs for AI-ML model training**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221620**.

**S5-221620 pCR 28.105 Add NRMs for AI-ML model training**

*Type: pCR For: Approval  
 28.105 v0.0.0  
 Source: Intel*

(Replaces S5-221336)

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

**S5-221337 Initial skeleton (v000) of TS 28.105**

*Type: pCR For: Information  
 28.105 v0.0.0  
 Source: Intel*

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

**S5-221338 pCR 28.104 Move out ML model training part to TS 28.105**

*Type: pCR For: Information  
 28.104 v0.3.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221619**.

**S5-221619 pCR 28.104 Move out ML model training part to TS 28.105**

*Type: pCR For: Information  
 28.104 v0.3.0  
 Source: Intel*

(Replaces S5-221338)

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

**S5-221339 pCR 28.104 Update NRM for MDA request**

*Type: pCR For: Information  
 28.104 v0.3.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221613**.

**S5-221613 pCR 28.104 Update NRM for MDA request**

*Type: pCR For: Information  
 28.104 v0.3.0  
 Source: Intel*

(Replaces S5-221339)

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

**S5-221341 pCR 28.104 Update MDA service framework and data definitions for coverage problem analysis**

*Type: pCR For: Information  
 28.104 v0.3.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221607**.

**S5-221607 pCR 28.104 Update MDA service framework and data definitions for coverage problem analysis**

*Type: pCR For: Information  
 28.104 v0.3.0  
 Source: Intel*

(Replaces S5-221341)

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

**S5-221342 CR Rel-17 28.552 Add measurements to support coverage problem analysis for MDA**

*Type: CR For: Information  
 28.552 v17.5.0 CR-0352 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221608**.

**S5-221608 CR Rel-17 28.552 Add measurements to support coverage problem analysis for MDA**

*Type: CR For: Information  
 28.552 v17.5.0 CR-0352 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221342)

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

**S5-221367 pCR draft TS28.104, add historical data handling for MDA**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: NEC, Intel*

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

**S5-221431 pCR draft TS28.104, add historical data handling for MDA**

*Type: pCR For: Approval  
 28.104 v0.3.0  
 Source: NEC, Intel*

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

**S5-221572 exception sheet for eMDAS**

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

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

**S5-221573 presentation sheet for TS 28.104**

*Type: TS or TR cover For: Approval  
 28.104 v..  
 Source: Intel*

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

**S5-221574 presentation sheet for TS 28.105**

*Type: TS or TR cover For: Approval  
 28.105 v..  
 Source: Intel*

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

**S5-221741 Latest draft TS 28.105**

*Type: draft TS For: Approval  
 28.105 v0.1.0  
 Source: Intel*

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

**S5-221748 Latest draft TS 28.104**

*Type: draft TS For: Approval  
 28.104 v0.4.0  
 Source: Intel*

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

#### 6.4.16 Plug and connect support for management of Network Functions

**S5-221047 pCR 28.314 PnC Concepts and Requirements - remove Editor note**

*Type: pCR For: Approval  
 28.314 v0.4.0  
 Source: Oy LM Ericsson AB*

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

**S5-221049 pCR 28.314 PnC Concepts and Requirements - updates from ETSI review**

*Type: pCR For: Approval  
 28.314 v0.4.0  
 Source: Oy LM Ericsson AB*

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

**S5-221050 pCR 28.315 PnC Procedure flows - remove Editor note**

*Type: pCR For: Approval  
 28.315 v0.3.0  
 Source: Oy LM Ericsson AB*

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

**S5-221051 pCR 28.315 PnC Procedure flows - updates from ETSI review**

*Type: pCR For: Approval  
 28.315 v0.3.0  
 Source: Oy LM Ericsson AB*

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

**S5-221052 pCR 28.316 PnC Data formats - DHCP Replies**

*Type: pCR For: Approval  
 28.316 v0.2.0  
 Source: Oy LM Ericsson AB*

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

**S5-221053 pCR 28.316 PnC Data formats - FQDN**

*Type: pCR For: Approval  
 28.316 v0.2.0  
 Source: Oy LM Ericsson AB*

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

**S5-221054 pCR 28.316 PnC Data formats - updates from ETSI review**

*Type: pCR For: Approval  
 28.316 v0.2.0  
 Source: Oy LM Ericsson AB*

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

**S5-221055 Presentation of Spec TS28.314 Version 1.0.0 to TSG and WG**

*Type: TS or TR cover For: Approval  
 28.314 v..  
 Source: Oy LM Ericsson AB*

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

**S5-221056 Presentation of Spec TS28.315 Version 1.0.0 to TSG and WG**

*Type: TS or TR cover For: Approval  
 28.315 v..  
 Source: Oy LM Ericsson AB*

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

**S5-221057 Presentation of Spec TS28.316 Version 1.0.0 to TSG and WG**

*Type: TS or TR cover For: Approval  
 28.316 v..  
 Source: Oy LM Ericsson AB*

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

**S5-221709 Latest draft TS 28.315**

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

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

**S5-221749 Latest draft TS 28.314**

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

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

**S5-221750 Latest draft TS 28.316**

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

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

#### 6.4.17 File Management

**S5-221240 Rel-17 CR 28.532 Add jobId to FileInfo**

*Type: CR For: Approval  
 28.532 v16.10.0 CR-0196 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-221622**.

**S5-221622 Rel-17 CR 28.532 Add jobId to FileInfo**

*Type: CR For: Approval  
 28.532 v16.10.0 CR-0196 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-221240)

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

**S5-221243 Rel-17 Input to DraftCR 28.622 Resolving editor's notes for FIMA**

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

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

**S5-221244 Rel-17 Input to DraftCR 28.622 Add file download NRM fragment**

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

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

**S5-221247 Rel-17 CR 28.623 Add file retrieval NRM fragment (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0148 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221248 Rel-17 CR 28.623 Add file download NRM fragment (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0149 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-221758**.

**S5-221758 Rel-17 CR 28.623 Add file download NRM fragment (OpenAPI definitions)**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0149 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-221248)

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

**S5-221296 Rel-17 CR 28.622 Add attribute to configure an identifier of a TraceJob**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0134 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-221623**.

**S5-221623 Rel-17 CR 28.622 Add attribute to configure an identifier of a TraceJob**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0134 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-221296)

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

**S5-221330 Rel-17 Input to DraftCR 28.622 Add file download control NRM fragment**

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

(Replaces S5-216291)

**Decision:** The document was **revised to S5-221757**.

**S5-221757 Rel-17 Input to DraftCR 28.622 Add file download control NRM fragment**

*Type: other For: Approval  
 28.622 v..  
 Source: Ericsson LM, Nokia*

(Replaces S5-221330)

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

**S5-221371 Input to DraftCR Add file download NRM fragment, YANG**

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

**Decision:** The document was **revised to S5-221759**.

**S5-221759 Input to DraftCR Add file download NRM fragment, YANG**

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

(Replaces S5-221371)

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

**S5-221408 Rel-17 CR 28.623 Add attribute to configure an identifier of a TraceJob**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0154 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221760 CR 28.622 Add stage2 definition for file management**

*Type: CR For: Agreement  
 28.622 v17.0.0 CR-0147 Cat: B (Rel-17)  
  
 Source: Nokia*

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

**S5-221761 Exception sheet for FIMA**

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

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

#### 6.4.18 Edge Computing Management

**S5-221066 pCR 28.538 add fault supervision use cases**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

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

**S5-221067 pCR 28.538 add fault supervision procedures**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221624**.

**S5-221624 pCR 28.538 add fault supervision procedures**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

(Replaces S5-221067)

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

**S5-221068 pCR 28.538 add provisioning use cases**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221625**.

**S5-221625 pCR 28.538 add provisioning use cases**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

(Replaces S5-221068)

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

**S5-221069 pCR 28.538 add provisioning procedures**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221626**.

**S5-221626 pCR 28.538 add provisioning procedures**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

(Replaces S5-221069)

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

**S5-221070 pCR 28.538 add relevent NRM changes to support ECM use cases**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221628**.

**S5-221628 pCR 28.538 add relevent NRM changes to support ECM use cases**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Intel*

(Replaces S5-221070)

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

**S5-221071 Rel-17 CR 28.532 add object class to FS subscription**

*Type: CR For: Approval  
 28.532 v16.10.0 CR-0195 Cat: B (Rel-17)  
  
 Source: Intel*

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

**S5-221073 Rel-17 CR 28.541 Add Stage 2 solutions to support ECM**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0650 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221627**.

**S5-221627 Rel-17 CR 28.541 Add Stage 2 solutions to support ECM**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0650 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221073)

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

**S5-221224 pCR 28.538 adding EDN IOC**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221629**.

**S5-221629 pCR 28.538 adding EDN IOC**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

(Replaces S5-221224)

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

**S5-221225 pCR 28.538 adding modification requirement in LCM**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

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

**S5-221226 pCR 28.538 adding query requirement in LCM**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

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

**S5-221227 pCR 28.538 removal of partially failure**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

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

**S5-221228 pCR 28.538 update Edge NRM figure**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221630**.

**S5-221630 pCR 28.538 update Edge NRM figure**

*Type: pCR For: Approval  
 28.538 v0.4.0  
 Source: Huawei*

(Replaces S5-221228)

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

**S5-221272 Rel-17 CR 28.552 performance measurements for ECS - EES Registration**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0348 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221638**.

**S5-221638 Rel-17 CR 28.552 performance measurements for ECS - EES Registration**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0348 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221272)

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

**S5-221275 Rel-17 CR 28.552 performance measurements for ECS - Service Provisioning**

*Type: CR For: Agreement  
 28.522 v16.0.0 CR-0006 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221639**.

**S5-221639 Rel-17 CR 28.552 performance measurements for ECS - Service Provisioning**

*Type: CR For: Agreement  
 28.522 v16.0.0 CR-0006 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221275)

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

**S5-221276 Rel-17 CR 28.552 performance measurements for EES - EAS Discovery**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0349 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221705**.

**S5-221705 Rel-17 CR 28.552 performance measurements for EES - EAS Discovery**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0349 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221276)

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

**S5-221278 Rel-17 CR 28.552 performance measurements for EES - EEC Registration**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0350 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221706**.

**S5-221706 Rel-17 CR 28.552 performance measurements for EES - EEC Registration**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0350 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221278)

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

**S5-221279 Rel-17 CR 28.552 performance measurements for EES - EAS Registration**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0351 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221707**.

**S5-221707 Rel-17 CR 28.552 performance measurements for EES - EAS Registration**

*Type: CR For: Agreement  
 28.552 v17.5.0 CR-0351 rev 1 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221279)

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

**S5-221283 pCR 28.538 ECS Performance MnS**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221634**.

**S5-221634 pCR 28.538 ECS Performance MnS**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221283)

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

**S5-221285 pCR 28.538 ECS Performance assurance**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221635**.

**S5-221635 pCR 28.538 ECS Performance assurance**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221285)

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

**S5-221286 pCR 28.538 EES Performance MnS**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221636**.

**S5-221636 pCR 28.538 EES Performance MnS**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221286)

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

**S5-221287 pCR 28.538 EES Performance assurance**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221637**.

**S5-221637 pCR 28.538 EES Performance assurance**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221287)

**Decision:** The document was **revised to S5-221739**.

**S5-221739 pCR 28.538 EES Performance assurance**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221637)

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

**S5-221288 pCR 28.538 EASFunction Definition**

*Type: pCR For: (not specified)  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221631**.

**S5-221631 pCR 28.538 EASFunction Definition**

*Type: pCR For: -  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221288)

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

**S5-221289 pCR 28.538 EESFunction definition**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221632**.

**S5-221632 pCR 28.538 EESFunction definition**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221289)

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

**S5-221290 pCR 28.538 EES LCM procedure**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221708**.

**S5-221708 pCR 28.538 EES LCM procedure**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221290)

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

**S5-221291 pCR 28.538 ECSFunction Definition**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221633**.

**S5-221633 pCR 28.538 ECSFunction Definition**

*Type: pCR For: Agreement  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221291)

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

**S5-221295 Updated WID Edge Computing Management**

*Type: WID revised For: Agreement  
 Source: Samsung Electronics Benelux BV*

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

**S5-221327 Presentation sheet for approval to TS 28.538**

*Type: TS or TR cover For: Approval  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221762**.

**S5-221762 Presentation sheet for approval to TS 28.538**

*Type: TS or TR cover For: Approval  
 28.538 v0.4.0  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221327)

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

**S5-221361 WI Exception for ECM**

*Type: WI exception request For: Approval  
 Source: Samsung Electronics Benelux BV*

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

**S5-221565 pCR 28.538 Edge NRM Stage-3**

*Type: pCR For: discussion  
 28.538 v0.4.0  
 Source: Samsung*

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

**S5-221578 Rel-17 CR 28.541 Add Stage 3 solutions to support ECM**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0682 Cat: B (Rel-17)  
  
 Source: Intel*

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

**S5-221751 Latest draft TS 28.538**

*Type: draft TS For: Approval  
 28.538 v0.5.0  
 Source: Samsung*

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

#### 6.4.19 Improved support for NSA in the service-based management architecture

**S5-221162 Rel-17 CR TS 28.659 Provide YAML solution set for EUTRAN NRM**

*Type: CR For: Agreement  
 28.659 v16.2.0 CR-0039 rev 2 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-216164)

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

**S5-221163 Rel-17 CR TS 28.663 Provide YAML solution set for RAN NRM**

*Type: CR For: Agreement  
 28.663 v16.0.0 CR-0021 rev 2 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-216165)

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

**S5-221164 CR TS 28.622 Add description of the corresponding IOCs**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0132 Cat: F (Rel-17)  
  
 Source: Huawei Technologies (Korea)*

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

**S5-221233 Update Inventory stage2 to support SBMA**

*Type: CR For: Approval  
 28.632 v16.0.0 CR-0005 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-216092)

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

**S5-221256 YANG Solution Set for Inventory Management**

*Type: CR For: Approval  
 28.633 v16.0.0 CR-0009 rev 2 Cat: B (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-216398)

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

**S5-221416 YANG Solution Set for Generic Radio Access Network NRM**

*Type: CR For: Approval  
 28.663 v16.0.0 CR-0022 rev 2 Cat: B (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-216392)

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

**S5-221499 Revised WID Rel-17 NSA\_SBMA**

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

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

#### 6.4.20 Access control for management service

**S5-221297 Rel-17 28.622 enhance NRM to support access control**

*Type: CR For: Approval  
 28.622 v17.0.0 CR-0135 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221298 Rel-17 28.623 enhance NRM to support access control (stage3)**

*Type: CR For: Approval  
 28.623 v17.0.0 CR-0150 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221301 Rel-17 28.532 enhance OpenAPI to support access control**

*Type: CR For: Approval  
 28.532 v16.10.0 CR-0197 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221365 Rel-17 28.532 enhance OpenAPI to support access control**

*Type: CR For: Approval  
 28.532 v16.10.0 CR-0198 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221745 DraftCR for FIMA TS 28.622**

*Type: draftCR For: discussion  
 28.622 v17.0.0  
 Source: Nokia*

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

**S5-221766 Exception Sheet for MSAC**

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

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

#### 6.4.21 Network slice provisioning enhancement

**S5-221150 Rel-17 CR TS 28.541 Add feasibility check NRM fragment**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0536 rev 3 Cat: B (Rel-17)  
  
 Source: Huawei,China Unicom, Deutsche Telekom,China Mobile*

(Replaces S5-216205)

**Abstract:**

Resubmission of S5-215087rev8

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

**S5-221151 Rel-17 CR TS 28.531 Update procedure of reservation and checking feasibility of network slice subnet**

*Type: CR For: Agreement  
 28.531 v17.2.0 CR-0070 rev 3 Cat: B (Rel-17)  
  
 Source: Huawei,China Unicom,Deutsche Telekom,China Mobile*

(Replaces S5-216206)

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

**S5-221152 Rel-17 CR TS 28.531 Update procedure of network slice subnet instance allocation**

*Type: CR For: Agreement  
 28.531 v17.2.0 CR-0099 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-221245 WI Exception for eNETSLICE\_PRO**

*Type: WI exception request For: (not specified)  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221711**.

**S5-221711 WI Exception for eNETSLICE\_PRO**

*Type: WI exception request For: -  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221245)

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

**S5-221246 TS 28.531 Add/Modify procedure of reservation of Network Slice/ Network Slice Subnet**

*Type: CR For: Approval  
 28.531 v17.2.0 CR-0100 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221249 Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles convert to IOC - Stage 3**

*Type: CR For: Agreement  
 28.531 v17.2.0 CR-0101 Cat: F (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

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

**S5-221252 Rel-17 CR 28.541 Converting ServiceProfile and SliceProfile to IOC**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0665 Cat: F (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

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

**S5-221253 TS 28.531 Asynchronous network slicing procedures using createMOI**

*Type: CR For: (not specified)  
 28.531 v17.2.0 CR-0102 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221262 Rel-16 CR 28.541 Network slice subnet capability IOC**

*Type: CR For: Agreement  
 28.541 v17.5.0 CR-0668 Cat: F (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

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

**S5-221269 Rel-17 CR 28.531 Network slice subnet capabilities**

*Type: CR For: Agreement  
 28.531 v17.2.0 CR-0103 Cat: F (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

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

**S5-221270 Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles not convert to IOC - Stage 3**

*Type: CR For: Agreement  
 28.531 v17.2.0 CR-0104 Cat: F (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

**Decision:** The document was **revised to S5-221710**.

**S5-221710 Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles not convert to IOC - Stage 3**

*Type: CR For: Agreement  
 28.531 v17.2.0 CR-0104 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung Electronics Benelux BV*

(Replaces S5-221270)

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

**S5-221393 Clarify handling of modified network slice profile**

*Type: CR For: Approval  
 28.531 v17.2.0 CR-0105 Cat: F (Rel-17)  
  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221394 Add network slice job class to NRM discussion**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0673 Cat: B (Rel-17)  
  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221417 TS 28.541 Rel-17 CR TS 28.541 Add Reservation check NRM fragment**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0675 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-221418 Rel-17 CR TS 28.541 Asynchronous Network Slice provisioning using createMOI**

*Type: CR For: Approval  
 28.541 v17.5.0 CR-0676 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

### 6.5 OAM&P Studies

#### 6.5.1 Study on YANG PUSH

**S5-221039 Next step for FS\_YANG**

*Type: discussion For: Endorsement  
 28.818 v..  
 Source: Ericsson Hungary Ltd*

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

#### 6.5.2 Study on network slice management capability exposure

**S5-221089 pCR 28.824 Skeleton restructuring proposal**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Huawei, Alibaba*

**Decision:** The document was **revised to S5-221713**.

**S5-221713 pCR 28.824 Skeleton restructuring proposal**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Huawei, Alibaba*

(Replaces S5-221089)

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

**S5-221090 pCR 28.824 Possible solution for exposure of network slice as a service**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Huawei*

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

**S5-221196 Key issue and solution on exposure without going through BSS**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

**Decision:** The document was **revised to S5-221714**.

**S5-221714 Key issue and solution on exposure without going through BSS**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

(Replaces S5-221196)

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

**S5-221198 Solution on the relation to other SA5 work/study item**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

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

**S5-221199 Resolving the acquisition of operator’s MIB EN**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

**Decision:** The document was **revised to S5-221569**.

**S5-221569 Resolving the acquisition of operator’s MIB EN**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

(Replaces S5-221199)

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

**S5-221200 Resolving the EN regarding discovery system**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

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

**S5-221202 Resolving the exposure related EN**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Alibaba Group*

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

**S5-221216 pCR 28.824 Clarification on access to exposed MnS**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221719**.

**S5-221719 pCR 28.824 Clarification on access to exposed MnS**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Huawei*

(Replaces S5-221216)

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

**S5-221230 SID revised was SP-210131 SID on network slice management capability exposure**

*Type: SID revised For: Agreement  
 Source: Alibaba Group*

**Decision:** The document was **revised to S5-221740**.

**S5-221740 SID revised was SP-210131 SID on network slice management capability exposure**

*Type: SID revised For: Agreement  
 Source: Alibaba Group*

(Replaces S5-221230)

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

**S5-221258 pCR TR 28.824 add solution on eMnS discovery service**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: AsiaInfo, Alibaba Group*

**Decision:** The document was **revised to S5-221570**.

**S5-221570 pCR TR 28.824 add solution on eMnS discovery service**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: AsiaInfo, Alibaba Group*

(Replaces S5-221258)

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

**S5-221259 pCR TR 28.824 add procedure for exposed MnS registration**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: AsiaInfo, Alibaba Group*

**Decision:** The document was **revised to S5-221571**.

**S5-221571 pCR TR 28.824 add procedure for exposed MnS registration**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: AsiaInfo, Alibaba Group*

(Replaces S5-221259)

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

**S5-221267 pCR 28.824 Describe possible solutions for eMnS discovery service**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Huawei, Ericsson*

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

**S5-221423 Add solution for product and service order procedures to clause 7**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-221742**.

**S5-221742 Add solution for product and service order procedures to clause 7**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-221423)

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

**S5-221424 eMnS service**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221425 Input to issues and gaps in clause 5**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221426 Input to potential requirements in clause 6**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221427 Input to potential solutions in clause 7.1**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221429 Move key issue list out of clause 4**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

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

**S5-221430 Update procedure and add solution for product on-boarding**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S5-221743**.

**S5-221743 Update procedure and add solution for product on-boarding**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Ericsson GmbH, Eurolab*

(Replaces S5-221430)

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

**S5-221432 pCR 28.824 Remove EN in 5.4**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S5-221744**.

**S5-221744 pCR 28.824 Remove EN in 5.4**

*Type: pCR For: Approval  
 28.824 v0.4.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S5-221432)

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

**S5-221434 pCR 28.824 Update position and add solution for direct MnS exposure**

*Type: pCR For: (not specified)  
 28.824 v0.4.0  
 Source: Lenovo, Motorola Mobility*

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

**S5-221752 Latest draft TR 28.824**

*Type: draft TR For: Approval  
 28.824 v0.5.0  
 Source: Alibaba*

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

#### 6.5.3 Study on continuous integration continuous delivery support for 3GPP NFs

**S5-221767 Revised SID for FS\_CICDNS**

*Type: SID revised For: Approval  
 Source: Lenovo, Motorola Mobility, CMCC*

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

**S5-221211 pCR 28.819 Add use case for test of NF utilizing slicing**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei, Lenovo*

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

**S5-221212 pCR 28.819 Add use case for network function health analysis**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei, Lenovo*

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

**S5-221213 pCR 28.819 CI-CD process updates**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221716**.

**S5-221716 pCR 28.819 CI-CD process updates**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei*

(Replaces S5-221213)

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

**S5-221214 pCR 28.819 clarify feedback to vendor scenario**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei*

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

**S5-221215 pCR 28.819 update notified of new NF version scenario**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221715**.

**S5-221715 pCR 28.819 update notified of new NF version scenario**

*Type: pCR For: Approval  
 28.819 v0.4.0  
 Source: Huawei*

(Replaces S5-221215)

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

**S5-221366 pCR - 28.819 Proposed overall process**

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

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

**S5-221370 pCR - 28.819 - Solution of test orchestration**

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

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

**S5-221435 pCR 28.819 Add Intro**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola Mobility, CMCC*

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

**S5-221436 pCR 28.819 Update to feature selection solution**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola Mobilty, CMCC*

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

**S5-221437 pCR 28.819 Update Simulation Testing with solution**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola mobility, CMCC*

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

**S5-221438 pCR 28.819 Update Scope**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola mobility, CMCC*

**Decision:** The document was **revised to S5-221717**.

**S5-221717 pCR 28.819 Update Scope**

*Type: pCR For: -  
 28.819 v0.4.0  
 Source: Lenovo, Motorola mobility, CMCC*

(Replaces S5-221438)

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

**S5-221439 pCR 28.819 Remove ENs in Section 4.2 and 6.4.2 and 8**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola Mobility, CMCC*

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

**S5-221440 pCR 28.819 Remove EN in Section 6.1.3**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola Mobility*

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

**S5-221441 S5-221441 pCR 28.819 Add overall process**

*Type: pCR For: (not specified)  
 28.819 v0.4.0  
 Source: Lenovo, Motorola Mobility*

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

**S5-221753 Latest draft TR 28.819**

*Type: draft TR For: Approval  
 28.819 v0.5.0  
 Source: Lenovo*

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

#### 6.5.4 Study on enhancement of service based management architecture

## 7 Charging

### 7.1 Charging Plenary

**S5-221008 CH agenda and time plan**

*Type: agenda For: (not specified)  
 Source: CH Chair (MATRIXX Software)*

**Decision:** The document was **revised to S5-221642**.

**S5-221642 CH agenda and time plan**

*Type: agenda For: -  
 Source: CH Chair (MATRIXX Software)*

(Replaces S5-221008)

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

**S5-221009 Charging exec report**

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

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

**S5-221277 Attachment\_3GPP Inputs to GSMA OPAG API Mapping\_ after SA5 CH call**

*Type: discussion For: Discussion  
 Source: WG Vice Chair (MATRIXX Software)*

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

### 7.2 New Charging Work Item proposals

**S5-221231 New WID on Network Slice charging based on 5G data connectivity**

*Type: WID new For: Agreement  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-221655**.

**S5-221655 New WID on Network Slice charging based on 5G data connectivity**

*Type: WID new For: Agreement  
 Source: MATRIXX Software*

(Replaces S5-221231)

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

**S5-221232 Rel-17 CR 32.255 Introduction of Annex on Network Slice charging**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0366 Cat: B (Rel-17)  
  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-221674**.

**S5-221674 Rel-17 CR 32.255 Introduction of Annex on Network Slice charging**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0366 rev 1 Cat: B (Rel-17)  
  
 Source: MATRIXX Software*

(Replaces S5-221232)

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

### 7.3 Charging Maintenance and Rel-17 small Enhancements

**S5-221020 Rel-16 CR 32.240 Correction on charging architecture for management domain**

*Type: CR For: Agreement  
 32.240 v16.4.0 CR-0435 Cat: F (Rel-16)  
  
 Source: Nokia, MATRIXX Software*

**Decision:** The document was **revised to S5-221677**.

**S5-221677 Rel-16 CR 32.240 Correction on charging architecture for management domain**

*Type: CR For: Agreement  
 32.240 v16.4.0 CR-0435 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, MATRIXX Software*

(Replaces S5-221020)

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

**S5-221028 Rel-17 CR 32.240 Correction on charging architecture for management domain**

*Type: CR For: Agreement  
 32.240 v17.4.0 CR-0436 Cat: A (Rel-17)  
  
 Source: Nokia, MATRIXX Software*

**Decision:** The document was **revised to S5-221678**.

**S5-221678 Rel-17 CR 32.240 Correction on charging architecture for management domain**

*Type: CR For: Agreement  
 32.240 v17.4.0 CR-0436 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, MATRIXX Software*

(Replaces S5-221028)

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

**S5-221094 LSout on Enhancement on Charging Identifier Uniqueness Mechanism**

*Type: LS out For: Agreement  
 to CT4, cc CT3  
 Source: Huawei*

**Decision:** The document was **revised to S5-221657**.

**S5-221657 LSout on Enhancement on Charging Identifier Uniqueness Mechanism**

*Type: LS out For: Agreement  
 to CT4, cc CT3  
 Source: Huawei*

(Replaces S5-221094)

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

**S5-221104 Rel-16 CR 32.255 Correction on the UPF Id used for QBC**

*Type: CR For: Agreement  
 32.255 v16.11.0 CR-0356 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-221105 Rel-17 CR 32.255 Correction on the UPF Id used for QBC**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0357 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221106 Rel-16 CR 32.291 Correction on the UPF Id used for QBC**

*Type: CR For: Agreement  
 32.291 v16.10.0 CR-0361 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-221107 Rel-17 CR 32.291 Correction on the UPF Id used for QBC**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0362 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221108 Rel-16 CR 32.298 Correction on the UPF Id used for QBC**

*Type: CR For: Agreement  
 32.298 v16.10.0 CR-0883 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-221109 Rel-17 CR 32.298 Correction on the UPF Id used for QBC**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0884 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221110 Rel-16 CR 32.255 Correction on the Charging Identifier Uniqueness**

*Type: CR For: Agreement  
 32.255 v16.11.0 CR-0358 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-221111 Rel-17 CR 32.255 Correction on the Charging Identifier Uniqueness**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0359 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221112 Rel-16 CR 32.291 Correction on the Charging Identifier Uniqueness**

*Type: CR For: Agreement  
 32.291 v16.10.0 CR-0363 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-221113 Rel-17 CR 32.291 Correction on the Charging Identifier Uniqueness**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0364 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221114 Rel-16 CR 32.298 Correction on the Charging Identifier Uniqueness**

*Type: CR For: Agreement  
 32.298 v16.10.0 CR-0885 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-221115 Rel-17 CR 32.298 Correction on the Charging Identifier Uniqueness**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0886 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-221116 Rel-17 CR 32.255 Additional Supported fields for the QoS Mornitoring Report**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0360 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-221117 Rel-17 CR 32.291 Addition of the Supported Feature for URLLC**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0365 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-221118 Rel-16 CR 32.291 Extensibility Mechanisms for charging**

*Type: CR For: Agreement  
 32.291 v16.10.0 CR-0366 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221730**.

**S5-221730 Rel-16 CR 32.291 Extensibility Mechanisms for charging**

*Type: CR For: Agreement  
 32.291 v16.10.0 CR-0366 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-221118)

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

**S5-221119 Rel-17 CR 32.291 Extensibility Mechanisms for charging**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0367 Cat: A (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221731**.

**S5-221731 Rel-17 CR 32.291 Extensibility Mechanisms for charging**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0367 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221119)

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

**S5-221304 Rel-17 CR 32.291 Correcting response code 2xx**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0369 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221683**.

**S5-221683 Rel-17 CR 32.291 Correcting response code 2xx**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0369 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221304)

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

**S5-221305 Rel-17 CR 32.291 Correcting response code 3xx**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0370 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221306 Rel-17 CR 32.291 Correcting response code 4xx**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0371 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221684**.

**S5-221684 Rel-17 CR 32.291 Correcting response code 4xx**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0371 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221306)

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

**S5-221307 Rel-17 CR 32.291 Correcting response code 5xx**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0372 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221308 Rel-17 CR 32.255 Correcting charging rule base name**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0367 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221685**.

**S5-221685 Rel-17 CR 32.255 Correcting charging rule base name**

*Type: CR For: Agreement  
 32.255 v17.4.1 CR-0367 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221308)

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

**S5-221309 Rel-16 CR 32.291 Correcting quota management suspended**

*Type: CR For: Agreement  
 32.291 v16.10.0 CR-0373 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-221310 Rel-17 CR 32.291 Correcting quota management suspended**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0374 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-221737 Rel-17 CR 32.291 Correct the Open API**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0378 Cat: F (Rel-17)  
  
 Source: Huawei*

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

### 7.4 Rel-17 Charging

#### 7.4.1 IMS Charging in 5G System Architecture

**S5-221311 Rel-17 CR 32.291 Addition of IMS converged charging yaml**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0375 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221649**.

**S5-221649 Rel-17 CR 32.291 Addition of IMS converged charging yaml**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0375 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221311)

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

**S5-221312 Rel-17 CR 32.298 Addition of IMS converged charging ASN.1**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0887 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221686**.

**S5-221686 Rel-17 CR 32.298 Addition of IMS converged charging ASN.1**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0887 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221312)

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

**S5-221313 Rel-17 CR 32.291 Addition of MMTel converged charging yaml**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0376 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221650**.

**S5-221650 Rel-17 CR 32.291 Addition of MMTel converged charging yaml**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0376 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221313)

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

**S5-221314 Rel-17 CR 32.298 Addition of MMTel converged charging ASN.1**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0888 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221687**.

**S5-221687 Rel-17 CR 32.298 Addition of MMTel converged charging ASN.1**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0888 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221314)

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

**S5-221315 Rel-17 CR 32.291 Addition of IMS converged charging announcement yaml**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0377 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221651**.

**S5-221651 Rel-17 CR 32.291 Addition of IMS converged charging announcement yaml**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0377 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-221315)

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

#### 7.4.2 Charging aspects of Edge Computing

**S5-221348 pCR 32.257 Add charging information 5GS usage charging for edge enabling**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221688**.

**S5-221688 pCR 32.257 Add charging information 5GS usage charging for edge enabling**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

(Replaces S5-221348)

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

**S5-221349 CR Rel-17 32.255 Add charging information for 5GS usage for Edge Computing**

*Type: CR For: Approval  
 32.255 v17.4.0 CR-0368 Cat: B (Rel-17)  
  
 Source: Intel*

**Decision:** The document was **revised to S5-221720**.

**S5-221720 CR Rel-17 32.255 Add charging information for 5GS usage for Edge Computing**

*Type: CR For: Approval  
 32.255 v17.4.0 CR-0368 rev 1 Cat: B (Rel-17)  
  
 Source: Intel*

(Replaces S5-221349)

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

**S5-221350 pCR 32.257 Add principles and scenarios for edge enabling infrastructure resource usage charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221658**.

**S5-221658 pCR 32.257 Add principles and scenarios for edge enabling infrastructure resource usage charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

(Replaces S5-221350)

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

**S5-221351 pCR 32.257 Add charging information definition for edge enabling infrastructure resource usage charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221659**.

**S5-221659 pCR 32.257 Add charging information definition for edge enabling infrastructure resource usage charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

(Replaces S5-221351)

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

**S5-221352 pCR 32.257 Add principles and scenarios for edge application server deployment charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221660**.

**S5-221660 pCR 32.257 Add principles and scenarios for edge application server deployment charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

(Replaces S5-221352)

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

**S5-221354 pCR 32.257 Add charging information definition for edge application server deployment charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221663**.

**S5-221663 pCR 32.257 Add charging information definition for edge application server deployment charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

(Replaces S5-221354)

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

**S5-221355 pCR 32.257 Add principles and scenarios for edge enabling services charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

**Decision:** The document was **revised to S5-221661**.

**S5-221661 pCR 32.257 Add principles and scenarios for edge enabling services charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

(Replaces S5-221355)

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

**S5-221357 pCR 32.257 Add charging information definition for edge enabling services charging**

*Type: pCR For: Approval  
 32.257 v0.2.0  
 Source: Intel*

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

**S5-221358 Revised WID Charging aspects of edge computing**

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

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

**S5-221643 Draft TS 32.257**

*Type: draft TR For: Approval  
 32.257 v0.3.0  
 Source: Intel Sweden AB*

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

**S5-221648 Work Item Exception for Charging aspects of Edge Computing**

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

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

**S5-221675 Presentation of TS 32.257 for Information**

*Type: TS or TR cover For: Agreement  
 32.257 v..  
 Source: Intel Sweden AB*

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

#### 7.4.3 Charging aspects of Architecture Enhancement for NR Reduced Capability Devices

**S5-221446 LS on RAT Type value for NR Redcap**

*Type: LS out For: Approval  
 to CT1,CT3, cc CT4,CT6  
 Source: China Mobile Com. Corporation*

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

**S5-221447 Rel-17 CR 32.255 Add charging requirement to support NR RedCap**

*Type: CR For: Approval  
 32.255 v17.4.0 CR-0369 Cat: B (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-221721**.

**S5-221721 Rel-17 CR 32.255 Add charging requirement to support NR RedCap**

*Type: CR For: Approval  
 32.255 v17.4.0 CR-0369 rev 1 Cat: B (Rel-17)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-221447)

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

**S5-221733 Work Item Exception for Charging aspects of Architecture Enhancement for NR Reduced Capability Devices**

*Type: WI exception request For: Agreement  
 Source: China Mobile Com. Corporation*

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

**S5-221735 Revised WID Charging aspects of Architecture Enhancement for NR Reduced Capability Devices**

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

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

#### 7.4.4 Charging aspects of Proximity-based Services in 5GS

**S5-221395 Update high level ProSe architecture**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0035 Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-221676**.

**S5-221676 Update high level ProSe architecture**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0035 rev 1 Cat: F (Rel-17)  
  
 Source: CATT*

(Replaces S5-221395)

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

**S5-221396 Update general charging principles for 5G ProSe**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0036 Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-221662**.

**S5-221662 Update general charging principles for 5G ProSe**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0036 rev 1 Cat: B (Rel-17)  
  
 Source: CATT*

(Replaces S5-221396)

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

**S5-221397 Adding basic principles for 5G ProSe convergent charging**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0037 Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-221652**.

**S5-221652 Adding basic principles for 5G ProSe convergent charging**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0037 rev 1 Cat: B (Rel-17)  
  
 Source: CATT*

(Replaces S5-221397)

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

**S5-221398 Adding message flows for 5G ProSe Direct Discovery converged charging**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0038 Cat: B (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-221653**.

**S5-221653 Adding message flows for 5G ProSe Direct Discovery converged charging**

*Type: CR For: Approval  
 32.277 v17.0.0 CR-0038 rev 1 Cat: B (Rel-17)  
  
 Source: CATT*

(Replaces S5-221398)

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

**S5-221734 Work Item Exception for Charging aspects of Proximity-based Services in 5GS**

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

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

#### 7.4.5 Charging Aspects of 5G LAN VN Group

**S5-221098 Rel-17 CR 32.240 Addition of the 5G LAN-type service Description**

*Type: CR For: Agreement  
 32.240 v17.4.0 CR-0437 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221689**.

**S5-221689 Rel-17 CR 32.240 Addition of the 5G LAN-type service Description**

*Type: CR For: Agreement  
 32.240 v17.4.0 CR-0437 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221098)

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

**S5-221099 Rel-17 CR 32.240 Addition of the 5G VN group management Charging**

*Type: CR For: Agreement  
 32.240 v17.4.0 CR-0438 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-221100 Rel-17 CR 32.255 Clarification on the 5G LAN type service charging**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0354 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221724**.

**S5-221724 Rel-17 CR 32.255 Clarification on the 5G LAN type service charging**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0354 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221100)

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

**S5-221101 Rel-17 CR 32.255 Additional charging information for the 5G LAN charging**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0355 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221728**.

**S5-221728 Rel-17 CR 32.255 Additional charging information for the 5G LAN charging**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0355 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221101)

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

**S5-221102 Rel-17 CR 32.291 Additional charging information for the 5G LAN communication**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0360 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221725**.

**S5-221725 Rel-17 CR 32.291 Additional charging information for the 5G LAN communication**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0360 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221102)

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

**S5-221103 Rel-17 CR 32.298 Additional charging information for the 5G LAN communication**

*Type: CR For: Agreement  
 32.298 v17.1.0 CR-0882 Cat: B (Rel-17)  
  
 Source: Huawei*

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

**S5-221722 Work Item Exception for Charging Aspects of 5G LAN VN Group**

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

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

**S5-221723 Revised WID Charging aspects of 5G LAN VN Group**

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

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

#### 7.4.6 New WID on Charging enhancements for 5G CIoT

**S5-221125 Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in charging procedure**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0361 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221664**.

**S5-221664 Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in charging procedure**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0361 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221125)

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

**S5-221126 Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in EPC interworking procedure**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0362 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221665**.

**S5-221665 Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in EPC interworking procedure**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0362 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221126)

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

**S5-221127 Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in home-routed roaming procedure**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0363 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221666**.

**S5-221666 Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in home-routed roaming procedure**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0363 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221127)

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

**S5-221128 Rel-17 CR 32.255 Add charging information of 5GS CIoT**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0364 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221667**.

**S5-221667 Rel-17 CR 32.255 Add charging information of 5GS CIoT**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0364 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221128)

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

**S5-221129 Rel-17 CR 32.255 Add charging requirements of 5GS CIoT**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0365 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221668**.

**S5-221668 Rel-17 CR 32.255 Add charging requirements of 5GS CIoT**

*Type: CR For: Agreement  
 32.255 v17.4.0 CR-0365 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221129)

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

**S5-221130 Rel-17 CR TS 32.291 Add charging information of 5GS CIoT**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0368 Cat: B (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-221669**.

**S5-221669 Rel-17 CR TS 32.291 Add charging information of 5GS CIoT**

*Type: CR For: Agreement  
 32.291 v17.1.0 CR-0368 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei*

(Replaces S5-221130)

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

### 7.5 Charging studies

#### 7.5.1 Study on Charging Aspect of 5G LAN-type Services

**S5-221093 Presentation of TR 28.822 for Approval**

*Type: TS or TR cover For: Agreement  
 28.822 v1.0.0  
 Source: Huawei*

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

**S5-221095 Rel-17 pCR 28.822 Remove the editor‘s note for topic 4**

*Type: pCR For: Agreement  
 28.822 v1.0.0  
 Source: Huawei*

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

**S5-221096 Rel-17 pCR 28.822 Correction on the solution and conclusion for Topic 4**

*Type: pCR For: Agreement  
 28.822 v1.0.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221727**.

**S5-221727 Rel-17 pCR 28.822 Correction on the solution and conclusion for Topic 4**

*Type: pCR For: Agreement  
 28.822 v1.0.0  
 Source: Huawei*

(Replaces S5-221096)

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

**S5-221097 Rel-17 pCR 28.822 Correction on the Recommendation**

*Type: pCR For: Agreement  
 28.822 v1.0.0  
 Source: Huawei*

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

**S5-221644 Draft TR 28.822**

*Type: draft TR For: Approval  
 28.822 v1.1.0  
 Source: Huawei*

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

#### 7.5.2 Study on charging aspects for enhancements of Network Slicing Phase 2

**S5-221229 Rel-17 pCR 32.847 Conclusions for KI#3**

*Type: pCR For: Agreement  
 32.847 v1.0.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-221654**.

**S5-221654 Rel-17 pCR 32.847 Conclusions for KI#3**

*Type: pCR For: Agreement  
 32.847 v1.0.0  
 Source: MATRIXX Software*

(Replaces S5-221229)

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

**S5-221645 Draft TR 32.847**

*Type: draft TR For: Approval  
 32.847 v1.1.0  
 Source: MATRIXX Software*

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

#### 7.5.3 Study on Nchf charging services phase 2

**S5-221120 Rel-17 pCR 28.826 Update the References**

*Type: pCR For: Agreement  
 28.826 v0.2.0  
 Source: Huawei*

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

**S5-221121 Rel-17 pCR 28.826 Add the solution for Non-blocking Mode Enhancement**

*Type: pCR For: Agreement  
 28.826 v0.2.0  
 Source: Huawei*

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

**S5-221316 Rel-17 pCR 28.826 Restructuring clauses 5.3 to 5.5**

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

**Decision:** The document was **revised to S5-221682**.

**S5-221682 Rel-17 pCR 28.826 Restructuring clauses 5.3 to 5.5**

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

(Replaces S5-221316)

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

**S5-221317 Rel-17 pCR 28.826 Adding PCF based solution to clause 5.5**

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

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

**S5-221318 Rel-17 pCR 28.826 Adding use case for operator defined trigger**

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

**Decision:** The document was **revised to S5-221726**.

**S5-221726 Rel-17 pCR 28.826 Adding use case for operator defined trigger**

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

(Replaces S5-221318)

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

**S5-221319 Rel-17 pCR 28.826 Adding service identifier based solution to clause 5.3**

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

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

**S5-221320 Rel-17 pCR 28.826 Adding use case for cancel failed event**

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

**Decision:** The document was **revised to S5-221736**.

**S5-221736 Rel-17 pCR 28.826 Adding use case for cancel failed event**

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

(Replaces S5-221320)

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

**S5-221646 Draft TR 28.826**

*Type: draft TR For: Approval  
 28.826 v0.3.0  
 Source: Ericsson LM*

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

#### 7.5.4 Study on 5G roaming charging architecture for wholesale and retail scenarios

**S5-221122 Rel-17 pCR 28.827 Editorial Correction on the Figures**

*Type: pCR For: Agreement  
 28.827 v0.3.0  
 Source: Huawei*

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

**S5-221123 Rel-17 pCR 28.827 Addition of the soultion for the Roaming Charging Profile**

*Type: pCR For: Agreement  
 28.827 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221729**.

**S5-221729 Rel-17 pCR 28.827 Addition of the soultion for the Roaming Charging Profile**

*Type: pCR For: Agreement  
 28.827 v0.3.0  
 Source: Huawei*

(Replaces S5-221123)

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

**S5-221124 Rel-17 pCR 28.827 Clarification on the Roaming Charging Profile**

*Type: pCR For: Agreement  
 28.827 v0.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-221732**.

**S5-221732 Rel-17 pCR 28.827 Clarification on the Roaming Charging Profile**

*Type: pCR For: Agreement  
 28.827 v0.3.0  
 Source: Huawei*

(Replaces S5-221124)

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

**S5-221321 Rel-17 pCR 28.827 Corrections to clause 7.1**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221681**.

**S5-221681 Rel-17 pCR 28.827 Corrections to clause 7.1**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

(Replaces S5-221321)

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

**S5-221322 Rel-17 pCR 28.827 Corrections to clause 7.2**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

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

**S5-221323 Rel-17 pCR 28.827 Corrections to clause 7.3**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

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

**S5-221324 Rel-17 pCR 28.827 Corrections to clause 7.4**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

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

**S5-221325 Rel-17 pCR 28.827 Adding use case and solution for clause 7.5**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

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

**S5-221326 Rel-17 pCR 28.827 Adding use case and solution for clause 7.6**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-221679**.

**S5-221679 Rel-17 pCR 28.827 Adding use case and solution for clause 7.6**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Ericsson LM*

(Replaces S5-221326)

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

**S5-221484 TR 28.827, Adding Conclusions**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Vodafone Italia SpA,MATRIXX Software*

**Abstract:**

This contribution proposes to include some conclusion and recommendations

**Decision:** The document was **revised to S5-221656**.

**S5-221656 TR 28.827, Adding Conclusions**

*Type: pCR For: Approval  
 28.827 v0.3.0  
 Source: Vodafone Italia SpA,MATRIXX Software*

(Replaces S5-221484)

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

**S5-221640 Discussion paper on Charging Solution for Roaming with Local Breakout**

*Type: discussion For: discussion  
 Source: Vodafone Italia SpA*

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

**S5-221641 New WID on 5G charging for additional roaming scenarios and actors**

*Type: WID new For: Agreement  
 Source: Vodafone Italia SpA,*

*MATRIXX Software*

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

**S5-221647 Draft TR 28.827**

*Type: draft TR For: Approval  
 28.827 v0.4.0  
 Source: Ericsson*

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

**S5-221670 Work Item Exception for 5G Charging for Local breakout roaming of data connectivity**

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

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

**S5-221671 Rel-17 CR TS 32.240 Charging architecture for Local Breakout**

*Type: CR For: Agreement  
 32.240 v17.4.0 CR-0439 Cat: B (Rel-17)  
  
 Source: Vodafone*

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

**S5-221672 Revised SID on 5G roaming charging architecture for wholesale and retail scenarios**

*Type: SID revised For: Agreement  
 Source: Ericsson LM*

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

**S5-221673 Presentation of TR 28.827 for Information**

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

**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 |
| S5-221000 | Agenda | WG Chair | approved | - | - |
| S5-221001 | Report from last SA5 meeting | MCC | approved | - | - |
| S5-221002 | e-meeting process | WG Chair | revised | - | S5-221490 |
| S5-221003 | Post e-meeting email approval status | WG Chair | available | - | - |
| S5-221004 | OAM&P action list | WG Vice Chair (Huawei) | noted | - | - |
| S5-221005 | agenda\_with\_Tdocs\_sequence\_proposal\_OAM | WG Vice Chair (Huawei) | noted | - | - |
| S5-221006 | OAM Exec Report | WG Vice Chair (Huawei) | available | - | - |
| S5-221007 | OAM Chair notes and conclusions | WG Chair | noted | - | - |
| S5-221008 | CH agenda and time plan | CH Chair (MATRIXX Software) | revised | - | S5-221642 |
| S5-221009 | Charging exec report | WG Vice Chair (MATRIXX Software) | noted | - | - |
| S5-221010 | SA5 working procedures | WG Chair | noted | - | - |
| S5-221011 | Process for management of draft TS-TRs | WG Chair | noted | - | - |
| S5-221012 | SA5 meeting calendar | WG CHair | noted | - | - |
| S5-221013 | Collection of useful endorsed document and external communication documents | WG Vice Chair (Huawei) | noted | - | - |
| S5-221014 | LS on 3GPP SA5 work on 5G network energy efficiency and energy saving | Orange | revised | - | S5-221680 |
| S5-221015 | Reply LS to SA on energy efficiency as guiding principle for new solutions | Orange | revised | - | S5-221501 |
| S5-221016 | Reply LS on Recommendation ITU-T M.3381 | Intel, NEC, Orange | revised | - | S5-221502 |
| S5-221017 | Discussion on RACH NSA measurements | Nokia Solutions & Networks (I) | revised | - | S5-221537 |
| S5-221018 | DP Deprecating attributes and IOCs | Ericsson Hungary Ltd | noted | - | - |
| S5-221019 | Deprecating attributes and IOC | Ericsson Hungary Ltd | not pursued | - | - |
| S5-221020 | Rel-16 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | revised | - | S5-221677 |
| S5-221021 | Add lifecycle-status for attributes, data types and IOCs | Ericsson Hungary Ltd | not pursued | - | - |
| S5-221022 | Discussion paper on Asynchronous interactions | Ericsson Hungary Ltd | noted | - | - |
| S5-221023 | Asynchronous operation NRM additions | Ericsson Hungary Ltd | revised | - | S5-221549 |
| S5-221024 | Asynchronous operation NRM additions - YANG Stage 3 | Ericsson Hungary Ltd | revised | - | S5-221550 |
| S5-221025 | Specifying multivalue attributes | Ericsson Hungary Ltd | revised | - | S5-221522 |
| S5-221026 | Alarm Record changes | Ericsson Hungary Ltd | revised | - | S5-221521 |
| S5-221027 | Notification Subscription changes | Ericsson Hungary Ltd | revised | - | S5-221519 |
| S5-221028 | Rel-17 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | revised | - | S5-221678 |
| S5-221029 | Fix stage3 definition for 5G\_DDNMF | CATT | agreed | - | - |
| S5-221030 | Rel-17 CR 28.541 Update Figure L.2.1 and accompanying paragraph. | TELEFONICA S.A. | not pursued | - | - |
| S5-221031 | YANG corrections | Ericsson Hungary Ltd | agreed | - | - |
| S5-221032 | Rel-16 CR 28.623 Structuring of TraceJob IOC and Clean up | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221033 | pCR 28.557 Correct typo in clause 4.6.2 | TELEFONICA S.A. | withdrawn | - | - |
| S5-221034 | Fixing lists errors in AmfFunction-Single (stage 3) | Nokia Germany | agreed | - | - |
| S5-221035 | Rel-17 CR 28.541 Update RANSliceSubnetProfile attributes | TELEFONICA S.A. | revised | - | S5-221531 |
| S5-221036 | Enhance 5G Core managed NF Profile NRM fragment (Stage 2) | Nokia Germany | not pursued | - | - |
| S5-221037 | pCR 28.557 Correct typo in clause 4.6.2 | TELEFONICA S.A. | approved | - | - |
| S5-221038 | pCR 28.557 Add new NPN management related requirements | TELEFONICA S.A. | revised | - | S5-221526 |
| S5-221039 | Next step for FS\_YANG | Ericsson Hungary Ltd | endorsed | - | - |
| S5-221040 | Data change notifications YANG-in-Rest format | Ericsson Hungary Ltd | not pursued | - | - |
| S5-221041 | Adding Management Based Activation and Temporary stop and restart during RAN overload in NR | Ericsson Limited | agreed | - | - |
| S5-221042 | Adding Signalling Based Activation for NR | Ericsson Limited | revised | - | S5-221557 |
| S5-221043 | Handling of QoE measurement collection at handover in NR | Ericsson Limited | not pursued | - | - |
| S5-221044 | Adding VR measurements | Ericsson Limited | agreed | - | - |
| S5-221045 | Enhance 5G Core managed NF Profile NRM fragment (Stage 3) | Nokia Germany | not pursued | - | - |
| S5-221046 | Including individual PM, KPI, trace and QoE statistics and predictions as additional MDA types | Nokia Germany | revised | - | S5-221602 |
| S5-221047 | pCR 28.314 PnC Concepts and Requirements - remove Editor note | Oy LM Ericsson AB | approved | - | - |
| S5-221048 | Editorial on the definition of AssuranceClosedControlLoop | Nokia Germany | revised | - | S5-221586 |
| S5-221049 | pCR 28.314 PnC Concepts and Requirements - updates from ETSI review | Oy LM Ericsson AB | approved | - | - |
| S5-221050 | pCR 28.315 PnC Procedure flows - remove Editor note | Oy LM Ericsson AB | approved | - | - |
| S5-221051 | pCR 28.315 PnC Procedure flows - updates from ETSI review | Oy LM Ericsson AB | approved | - | - |
| S5-221052 | pCR 28.316 PnC Data formats - DHCP Replies | Oy LM Ericsson AB | approved | - | - |
| S5-221053 | pCR 28.316 PnC Data formats - FQDN | Oy LM Ericsson AB | approved | - | - |
| S5-221054 | pCR 28.316 PnC Data formats - updates from ETSI review | Oy LM Ericsson AB | approved | - | - |
| S5-221055 | Presentation of Spec TS28.314 Version 1.0.0 to TSG and WG | Oy LM Ericsson AB | approved | - | - |
| S5-221056 | Presentation of Spec TS28.315 Version 1.0.0 to TSG and WG | Oy LM Ericsson AB | approved | - | - |
| S5-221057 | Presentation of Spec TS28.316 Version 1.0.0 to TSG and WG | Oy LM Ericsson AB | approved | - | - |
| S5-221058 | Add Space Division Multiplexing PRB Usage for MIMO cell | CMCC, Huawei, ZTE | revised | - | S5-221538 |
| S5-221059 | Forge working procedure change in SA5 Working Procedures | Nokia, Nokia Shanghai Bell | revised | - | S5-221497 |
| S5-221060 | Rel-17 network slice isolation | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221061 | TS28.540 Update the requirements for management enhancement of network slice and network slice subnet | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221062 | DP for New Rel-18 SID measurement data collection to support RAN intelligence\_x00B\_ | Intel Corporation (UK) Ltd | noted | - | - |
| S5-221063 | New SID Study on measurement data collection to support RAN intelligence | Intel Corporation (UK) Ltd, Verizon, AT&T, CMCC | noted | - | - |
| S5-221064 | Notification Subscription changes | Ericsson Hungary Ltd | revised | - | S5-221518 |
| S5-221065 | Alarm Record changes | Ericsson Hungary Ltd | revised | - | S5-221520 |
| S5-221066 | pCR 28.538 add fault supervision use cases | Intel | approved | - | - |
| S5-221067 | pCR 28.538 add fault supervision procedures | Intel | revised | - | S5-221624 |
| S5-221068 | pCR 28.538 add provisioning use cases | Intel | revised | - | S5-221625 |
| S5-221069 | pCR 28.538 add provisioning procedures | Intel | revised | - | S5-221626 |
| S5-221070 | pCR 28.538 add relevent NRM changes to support ECM use cases | Intel | revised | - | S5-221628 |
| S5-221071 | Rel-17 CR 28.532 add object class to FS subscription | Intel | not pursued | - | - |
| S5-221072 | Rel-17 CR 28.541 Correct NRM fragment for DMRO Management | Intel | agreed | - | - |
| S5-221073 | Rel-17 CR 28.541 Add Stage 2 solutions to support ECM | Intel | revised | - | S5-221627 |
| S5-221074 | Rel-17 CR 28.313 Add information in the PCI configuration notification | Intel | revised | - | S5-221591 |
| S5-221075 | Rel-17 CR 28.313 Add information in the C-SON notification | Intel | revised | - | S5-221592 |
| S5-221076 | CR Rel-17 28.622 Enhance NRM with geographical information supporting MDA | Intel | revised | - | S5-221604 |
| S5-221077 | CR Rel-17 28.623 Enhance NRM with geographical information supporting MDA | Intel | revised | - | S5-221605 |
| S5-221078 | pCR TS 28.312 Add feasibility check to the procedures for intent management | China Mobile Com. Corporation | revised | - | S5-221584 |
| S5-221079 | Reply LS on slicing management aspects in relation to SEAL | Huawei | revised | - | S5-221548 |
| S5-221080 | Rel-17 CR 28.541 Update energy efficiency attribute | Huawei | revised | - | S5-221532 |
| S5-221081 | pCR 28.557 fixing leftover of updating names for management modes of NPN | Huawei | approved | - | - |
| S5-221082 | pCR 28.557 Solution for management of SNPN | Huawei | revised | - | S5-221527 |
| S5-221083 | pCR 28.557 Update solution for NPN provisioning by a network slice of a PLMN | Huawei | revised | - | S5-221528 |
| S5-221084 | pCR 28.557 Solution for exposure of management capability of PNI-NPN | Huawei | approved | - | - |
| S5-221085 | pCR 28.557 Solution for collecting UE related data | Huawei | revised | - | S5-221529 |
| S5-221086 | pCR 28.557 Use case of collecting UE related data | Huawei | revised | - | S5-221530 |
| S5-221087 | pCR 28.557 Rapporteur proposal | Huawei | approved | - | - |
| S5-221088 | Presentation sheet of TS 28.557 for Approval | Huawei | approved | - | - |
| S5-221089 | pCR 28.824 Skeleton restructuring proposal | Huawei, Alibaba | revised | - | S5-221713 |
| S5-221090 | pCR 28.824 Possible solution for exposure of network slice as a service | Huawei | noted | - | - |
| S5-221091 | Rel-17 CR 28.533 Update on management capability exposure governance | Huawei | not pursued | - | - |
| S5-221092 | Rel-17 CR 28.533 Add EGMF services to support MnS exposure | Huawei | withdrawn | - | - |
| S5-221093 | Presentation of TR 28.822 for Approval | Huawei | approved | - | - |
| S5-221094 | LSout on Enhancement on Charging Identifier Uniqueness Mechanism | Huawei | revised | - | S5-221657 |
| S5-221095 | Rel-17 pCR 28.822 Remove the editor‘s note for topic 4 | Huawei | approved | - | - |
| S5-221096 | Rel-17 pCR 28.822 Correction on the solution and conclusion for Topic 4 | Huawei | revised | - | S5-221727 |
| S5-221097 | Rel-17 pCR 28.822 Correction on the Recommendation | Huawei | approved | - | - |
| S5-221098 | Rel-17 CR 32.240 Addition of the 5G LAN-type service Description | Huawei | revised | - | S5-221689 |
| S5-221099 | Rel-17 CR 32.240 Addition of the 5G VN group management Charging | Huawei | not pursued | - | - |
| S5-221100 | Rel-17 CR 32.255 Clarification on the 5G LAN type service charging | Huawei | revised | - | S5-221724 |
| S5-221101 | Rel-17 CR 32.255 Additional charging information for the 5G LAN charging | Huawei | revised | - | S5-221728 |
| S5-221102 | Rel-17 CR 32.291 Additional charging information for the 5G LAN communication | Huawei | revised | - | S5-221725 |
| S5-221103 | Rel-17 CR 32.298 Additional charging information for the 5G LAN communication | Huawei | not pursued | - | - |
| S5-221104 | Rel-16 CR 32.255 Correction on the UPF Id used for QBC | Huawei | not pursued | - | - |
| S5-221105 | Rel-17 CR 32.255 Correction on the UPF Id used for QBC | Huawei | not pursued | - | - |
| S5-221106 | Rel-16 CR 32.291 Correction on the UPF Id used for QBC | Huawei | not pursued | - | - |
| S5-221107 | Rel-17 CR 32.291 Correction on the UPF Id used for QBC | Huawei | not pursued | - | - |
| S5-221108 | Rel-16 CR 32.298 Correction on the UPF Id used for QBC | Huawei | not pursued | - | - |
| S5-221109 | Rel-17 CR 32.298 Correction on the UPF Id used for QBC | Huawei | not pursued | - | - |
| S5-221110 | Rel-16 CR 32.255 Correction on the Charging Identifier Uniqueness | Huawei | not pursued | - | - |
| S5-221111 | Rel-17 CR 32.255 Correction on the Charging Identifier Uniqueness | Huawei | not pursued | - | - |
| S5-221112 | Rel-16 CR 32.291 Correction on the Charging Identifier Uniqueness | Huawei | not pursued | - | - |
| S5-221113 | Rel-17 CR 32.291 Correction on the Charging Identifier Uniqueness | Huawei | not pursued | - | - |
| S5-221114 | Rel-16 CR 32.298 Correction on the Charging Identifier Uniqueness | Huawei | not pursued | - | - |
| S5-221115 | Rel-17 CR 32.298 Correction on the Charging Identifier Uniqueness | Huawei | not pursued | - | - |
| S5-221116 | Rel-17 CR 32.255 Additional Supported fields for the QoS Mornitoring Report | Huawei | merged | - | S5-221720 |
| S5-221117 | Rel-17 CR 32.291 Addition of the Supported Feature for URLLC | Huawei | agreed | - | - |
| S5-221118 | Rel-16 CR 32.291 Extensibility Mechanisms for charging | Huawei | revised | - | S5-221730 |
| S5-221119 | Rel-17 CR 32.291 Extensibility Mechanisms for charging | Huawei | revised | - | S5-221731 |
| S5-221120 | Rel-17 pCR 28.826 Update the References | Huawei | approved | - | - |
| S5-221121 | Rel-17 pCR 28.826 Add the solution for Non-blocking Mode Enhancement | Huawei | noted | - | - |
| S5-221122 | Rel-17 pCR 28.827 Editorial Correction on the Figures | Huawei | approved | - | - |
| S5-221123 | Rel-17 pCR 28.827 Addition of the soultion for the Roaming Charging Profile | Huawei | revised | - | S5-221729 |
| S5-221124 | Rel-17 pCR 28.827 Clarification on the Roaming Charging Profile | Huawei | revised | - | S5-221732 |
| S5-221125 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in charging procedure | Huawei | revised | - | S5-221664 |
| S5-221126 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in EPC interworking procedure | Huawei | revised | - | S5-221665 |
| S5-221127 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in home-routed roaming procedure | Huawei | revised | - | S5-221666 |
| S5-221128 | Rel-17 CR 32.255 Add charging information of 5GS CIoT | Huawei | revised | - | S5-221667 |
| S5-221129 | Rel-17 CR 32.255 Add charging requirements of 5GS CIoT | Huawei | revised | - | S5-221668 |
| S5-221130 | Rel-17 CR TS 32.291 Add charging information of 5GS CIoT | Huawei | revised | - | S5-221669 |
| S5-221131 | pCR TS 28.312 Rapporteur clean up | Huawei | revised | - | S5-221585 |
| S5-221132 | pCR TS 28.312 Align the description for general concept of intent content | Huawei,Nokia, Deutsche Telekom,AsiaInfo | revised | - | S5-221580 |
| S5-221133 | pCR TS 28.312 Update intent information model | Huawei, China Mobile, China Unicom, Nokia, Deutsche Telekom,AsiaInfo | revised | - | S5-221581 |
| S5-221134 | pCR TS 28.312 Update RadioNetworkExpectation | Huawei, China Mobile, China Unicom,, Deutsche Telekom | revised | - | S5-221575 |
| S5-221135 | pCR TS 28.312 Clean up on procedures | Huawei, Deutsche Telekom | revised | - | S5-221582 |
| S5-221136 | Rel-17 CR TS 28.541 Alignment on NR NRM for MOCN network sharing | Huawei,Orange,China Mobile,China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | revised | - | S5-221599 |
| S5-221137 | Rel-17 CR TS 32.130 Clean up on concept and business level requirements | Huawei, China Unicom,China Telecom | agreed | - | - |
| S5-221138 | Rel-17 CR TS 32.130 Add missing use case and requirements for radio resources partitioning between POPs | Huawei, China Unicom,China Telecom | agreed | - | - |
| S5-221139 | Rel-17 CR TS 32.130 Add solution description for the requirements for the management of the shared NG-RAN NE(s) in MOCN network sharing scenario | Huawei,Orange,China Mobile, China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | revised | - | S5-221600 |
| S5-221140 | pCR TS28.104 Add E2E latency analysis solution | Huawei | revised | - | S5-221609 |
| S5-221141 | pCR TS 28.104 add E2E latency analysis solution - stage3 | Huawei | noted | - | - |
| S5-221142 | pCR TS28.104 Add service experience analysis solution | Huawei | revised | - | S5-221712 |
| S5-221143 | pCR TS 28.104 add service experience analysis solution -stage3 | Huawei | noted | - | - |
| S5-221144 | pCR TS28.104 Add network slice throughput analysis solution | Huawei | revised | - | S5-221610 |
| S5-221145 | pCR TS 28.104 add network slice throughput analysis solution - stage3 | Huawei | noted | - | - |
| S5-221146 | pCR TS28.104 Add network slice load analysis solution | Huawei | revised | - | S5-221611 |
| S5-221147 | pCR TS 28.104 add network slice load analysis solution - stage3 | Huawei | noted | - | - |
| S5-221148 | Rel-17 CR TS 32.422 Correct the value of Report Interval in NR for alignment | China Telecom Corporation Ltd. | revised | - | S5-221523 |
| S5-221149 | Revised WID for additional NRM features | Nokia, Nokia Shanghai Bell | noted | - | - |
| S5-221150 | Rel-17 CR TS 28.541 Add feasibility check NRM fragment | Huawei,China Unicom, Deutsche Telekom,China Mobile | not pursued | S5-216205 | - |
| S5-221151 | Rel-17 CR TS 28.531 Update procedure of reservation and checking feasibility of network slice subnet | Huawei,China Unicom,Deutsche Telekom,China Mobile | not pursued | S5-216206 | - |
| S5-221152 | Rel-17 CR TS 28.531 Update procedure of network slice subnet instance allocation | Huawei | agreed | - | - |
| S5-221153 | pCR TS 28.312 add stage3 for intent NRM | Huawei | approved | - | - |
| S5-221154 | Presentation sheet of TS 28.312 for SA Information and Approval | Huawei | revised | - | S5-221583 |
| S5-221155 | Rel-15 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA | Huawei | not pursued | S5-216580 | - |
| S5-221156 | Rel-16 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA | Huawei | not pursued | S5-216581 | - |
| S5-221157 | Rel-17 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA | Huawei | not pursued | - | - |
| S5-221158 | Rel-15 CR TS 28.662 Update Generic RAN NRM to be applicable for SBMA | Huawei | not pursued | S5-216618 | - |
| S5-221159 | Rel-16 CR TS 28.662 Update Generic RAN NRM to be applicable for SBMA | Huawei | not pursued | S5-216619 | - |
| S5-221160 | Rel-17 CR TS 28.622 Add condition information for threshold monitoring | Huawei | not pursued | S5-216343 | - |
| S5-221161 | Rel-17 CR TS 28.541 Add tenant IOC to support multiple tenant environment | Huawei | revised | S5-216228 | S5-221558 |
| S5-221162 | Rel-17 CR TS 28.659 Provide YAML solution set for EUTRAN NRM | Huawei | not pursued | S5-216164 | - |
| S5-221163 | Rel-17 CR TS 28.663 Provide YAML solution set for RAN NRM | Huawei | not pursued | S5-216165 | - |
| S5-221164 | CR TS 28.622 Add description of the corresponding IOCs | Huawei Technologies (Korea) | not pursued | - | - |
| S5-221165 | CR Rel-17 TS 28.533 Add 5G specification information | Huawei Technologies (Korea) | revised | - | S5-221503 |
| S5-221166 | Add MDT reporting for NR | Ericsson LM | not pursued | - | - |
| S5-221167 | CR Rel-16 TS 32.103 Remove 5G specification information | Huawei Technologies (Korea) | revised | - | S5-221504 |
| S5-221168 | Add MDT reporting for NR | Ericsson LM | revised | - | S5-221534 |
| S5-221169 | Rel-17 CR TS 32.130 Add administrative management capability requirements | ZTE Corporation, China Unicom | agreed | - | - |
| S5-221170 | Add MDT signalling activation and deactivation mechanisms in a split architecture for NR | Ericsson LM | revised | - | S5-221535 |
| S5-221171 | Rel-17 CR TS 28.541 Add administrativeState attribute in OperatorNRCellDU | ZTE Corporation, China Unicom | revised | - | S5-221601 |
| S5-221172 | Add MDT management activation and deactivation mechanism in the case of split architecture for NR | Ericsson LM | revised | - | S5-221536 |
| S5-221173 | Rel-18 time plan proposal for OAM | SA5 Vice chair (Huawei),SA5 Chair | endorsed | - | - |
| S5-221174 | Rel-16 CR TS 28.541 Remove incorrect reference to 22.104 | ZTE Corporation | agreed | - | - |
| S5-221175 | Rel-17 CR TS 28.541 Remove incorrect reference to 22.104 | ZTE Corporation | agreed | - | - |
| S5-221176 | Rel-16 CR TS 28.541 Change the datatype of RRMPolicyRatio to real | ZTE Corporation, China Mobile, China Telecom | not pursued | - | - |
| S5-221177 | Rel-17 CR TS 28.552 Remove the number of failed conditional handover executions which is not implementable | China Telecom Corporation Ltd., ZTE | agreed | - | - |
| S5-221178 | Rel-17 CR TS 28.541 Change the datatype of RRMPolicyRatio to real | ZTE Corporation, China Mobile, China Telecom | not pursued | - | - |
| S5-221179 | New SID on Network Slice Management Capability Exposure Phase 2 | Alibaba Group | withdrawn | - | - |
| S5-221180 | NRM enhacements for SMFFunction | Nokia Germany | revised | - | S5-221555 |
| S5-221181 | New Rel-18 SID on Closed control loop for autonomous network management | ZTE Corporation | noted | - | - |
| S5-221182 | pCR TS 28.104 add Energy saving analytics output solution --stage2 | Huawei | merged | - | S5-221612 |
| S5-221183 | pCR TS 28.104 add coverage issue analytics output area definition--stage2 | Huawei | revised | - | S5-221606 |
| S5-221184 | pCR TS 28.104 add output stage3 for Energy saving analytics and coverage issue analytics | Huawei | noted | - | - |
| S5-221185 | pCR TS 28.104 add AnalticsOutputFilters of coverage issue analysis stage2 | Huawei | noted | - | - |
| S5-221186 | pCR TS 28.104 add reporting method | Huawei | noted | - | - |
| S5-221187 | pCR TS 28.104 add report control NRM stage3 | Huawei | noted | - | - |
| S5-221188 | pCR TS 28.104 add MDA analysis request and report generic workflow | Huawei | noted | - | - |
| S5-221189 | pCR TS 28.104 add MDA related service components | Huawei | revised | - | S5-221621 |
| S5-221190 | pCR TS28.104 Add the requirements for ML model training for MDA | Huawei | revised | - | S5-221614 |
| S5-221191 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage2 | Huawei | revised | - | S5-221594 |
| S5-221192 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage3 | Huawei | revised | - | S5-221593 |
| S5-221193 | Rel-17 CR TS 28.552 Add one more trigger point to the Number of failed DAPS handover preparations performance measurement | China Telecom Corporation Ltd., ZTE | agreed | - | - |
| S5-221194 | Preparation of checking the Rel-17 OAM work progress | SA5 Vice chair (Huawei) | revised | - | S5-221505 |
| S5-221195 | New WID on Network Slice Management Capability Exposure | Alibaba Group | revised | - | S5-221552 |
| S5-221196 | Key issue and solution on exposure without going through BSS | Alibaba Group | revised | - | S5-221714 |
| S5-221197 | Fixing the "S" qualifier | Nokia Germany | revised | - | S5-221587 |
| S5-221198 | Solution on the relation to other SA5 work/study item | Alibaba Group | noted | - | - |
| S5-221199 | Resolving the acquisition of operator’s MIB EN | Alibaba Group | revised | - | S5-221569 |
| S5-221200 | Resolving the EN regarding discovery system | Alibaba Group | noted | - | - |
| S5-221201 | New SID on Fault Supervision Evolution | China Mobile Research Inst.; HUAWEI | withdrawn | - | - |
| S5-221202 | Resolving the exposure related EN | Alibaba Group | noted | - | - |
| S5-221203 | New SID on Fault Supervision Evolution | China Mobile Com. Corporation;HUAWEI | revised | - | S5-221553 |
| S5-221204 | New SID on Management Aspect Enhancement of 5G MOCN Network Sharing | China Unicom | revised | - | S5-221353 |
| S5-221205 | Rel-17 CR 28.541 Add containment name in IMS SBA nodes | Huawei | not pursued | - | - |
| S5-221206 | Rel-17 CR 28.541 Add N70 N71 stage 3 | Huawei | not pursued | - | - |
| S5-221207 | Rel17 CR 28.541 CN related informtion in EP\_Transport | Huawei | not pursued | - | - |
| S5-221208 | Discussion on solutions for discovery of management services in 5G | Huawei | noted | - | - |
| S5-221209 | Rel-17 CR 28.622 Add support for discovery of managed entities | Huawei | revised | - | S5-221597 |
| S5-221210 | Rel-17 CR 28.623 Add support for discovery of managed entities | Huawei | revised | - | S5-221598 |
| S5-221211 | pCR 28.819 Add use case for test of NF utilizing slicing | Huawei, Lenovo | approved | - | - |
| S5-221212 | pCR 28.819 Add use case for network function health analysis | Huawei, Lenovo | approved | - | - |
| S5-221213 | pCR 28.819 CI-CD process updates | Huawei | revised | - | S5-221716 |
| S5-221214 | pCR 28.819 clarify feedback to vendor scenario | Huawei | approved | - | - |
| S5-221215 | pCR 28.819 update notified of new NF version scenario | Huawei | revised | - | S5-221715 |
| S5-221216 | pCR 28.824 Clarification on access to exposed MnS | Huawei | revised | - | S5-221719 |
| S5-221217 | pCR 28.104 Add description of coordinated analysis | Huawei | noted | - | - |
| S5-221218 | pCR 28.104 Requirements cleanup | Huawei | noted | - | - |
| S5-221219 | Rel-17 PCR TS 28.104 Add Alarm analytics solution-stage 2 | Huawei | noted | - | - |
| S5-221220 | Rel-17 PCR TS 28.104 Add Alarm analytics solution-stage 3 | Huawei | noted | - | - |
| S5-221221 | Rel-17 CR 28,541 Update SericeProfile and SliceProfile | Huawei | not pursued | - | - |
| S5-221222 | Rel-17 CR TS 28.533 Add tenant solution description | Huawei | not pursued | - | - |
| S5-221223 | Revised work item on management of the enhanced tenant concept | Huawei | revised | - | S5-221738 |
| S5-221224 | pCR 28.538 adding EDN IOC | Huawei | revised | - | S5-221629 |
| S5-221225 | pCR 28.538 adding modification requirement in LCM | Huawei | approved | - | - |
| S5-221226 | pCR 28.538 adding query requirement in LCM | Huawei | approved | - | - |
| S5-221227 | pCR 28.538 removal of partially failure | Huawei | approved | - | - |
| S5-221228 | pCR 28.538 update Edge NRM figure | Huawei | revised | - | S5-221630 |
| S5-221229 | Rel-17 pCR 32.847 Conclusions for KI#3 | MATRIXX Software | revised | - | S5-221654 |
| S5-221230 | SID revised was SP-210131 SID on network slice management capability exposure | Alibaba Group | revised | - | S5-221740 |
| S5-221231 | New WID on Network Slice charging based on 5G data connectivity | MATRIXX Software | revised | - | S5-221655 |
| S5-221232 | Rel-17 CR 32.255 Introduction of Annex on Network Slice charging | MATRIXX Software | revised | - | S5-221674 |
| S5-221233 | Update Inventory stage2 to support SBMA | Ericsson Hungary Ltd | not pursued | S5-216092 | - |
| S5-221234 | pCR 28.312 Update the clause 4.5, 6.2.1 and annex A to align with intent definition | China Mobile Com. Corporation | noted | - | - |
| S5-221235 | New SID on Management Aspects of URLLC | China Unicom | withdrawn | - | - |
| S5-221236 | Rel-17 CR TS 28.552 Modify description of MIMO PRB usage for cell | China Unicom | revised | - | S5-221539 |
| S5-221237 | Rel-17 CR TS 28.552 Modify description of sampling occasion for scheduled layers | China Unicom | revised | - | S5-221540 |
| S5-221238 | Update intent fulfillment tracking in information model | Nokia Germany | noted | - | - |
| S5-221239 | New SID on Basic SBMA enabler enhancements | Nokia, Nokia Shanghai Bell | revised | - | S5-221506 |
| S5-221240 | Rel-17 CR 28.532 Add jobId to FileInfo | Nokia, Nokia Shanghai Bell | revised | - | S5-221622 |
| S5-221241 | New SID on Management Aspects of URLLC | China Unicom | revised | - | S5-221507 |
| S5-221242 | New Rel-18 SID on alignment with GSMA OPG and ETSI MEC for Edge computing management | Samsung Electronics Benelux BV | revised | - | S5-221508 |
| S5-221243 | Rel-17 Input to DraftCR 28.622 Resolving editor's notes for FIMA | Nokia, Nokia Shanghai Bell | approved | - | - |
| S5-221244 | Rel-17 Input to DraftCR 28.622 Add file download NRM fragment | Nokia, Nokia Shanghai Bell | merged | - | S5-221757 |
| S5-221245 | WI Exception for eNETSLICE\_PRO | Samsung Electronics Benelux BV | revised | - | S5-221711 |
| S5-221246 | TS 28.531 Add/Modify procedure of reservation of Network Slice/ Network Slice Subnet | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221247 | Rel-17 CR 28.623 Add file retrieval NRM fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-221248 | Rel-17 CR 28.623 Add file download NRM fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | revised | - | S5-221758 |
| S5-221249 | Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles convert to IOC - Stage 3 | Samsung Electronics Benelux BV | not pursued | - | - |
| S5-221250 | pCR 28.104 Update use case and requirement for MDA assisted energy saving analysis | China Telecom Corporation Ltd. | approved | - | - |
| S5-221251 | pCR 28.104 Add MDA capability for MDA assisted energy saving analysis | China Telecom Corporation Ltd. | revised | - | S5-221612 |
| S5-221252 | Rel-17 CR 28.541 Converting ServiceProfile and SliceProfile to IOC | Samsung Electronics Benelux BV | not pursued | - | - |
| S5-221253 | TS 28.531 Asynchronous network slicing procedures using createMOI | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221254 | TS 28.541 Clean up of eMA5SLA | CMCC | revised | - | S5-221533 |
| S5-221255 | TS 28.541 Update 5G NRM to solve CR clash in Figure 5.2.1.2 | CMCC,CATT | agreed | - | - |
| S5-221256 | YANG Solution Set for Inventory Management | Ericsson Hungary Ltd | not pursued | S5-216398 | - |
| S5-221257 | S5-xxxxxx Rel-17 CR TS 28.552 Adding new packets based performance measurements | Harman GmbH | withdrawn | - | - |
| S5-221258 | pCR TR 28.824 add solution on eMnS discovery service | AsiaInfo, Alibaba Group | revised | - | S5-221570 |
| S5-221259 | pCR TR 28.824 add procedure for exposed MnS registration | AsiaInfo, Alibaba Group | revised | - | S5-221571 |
| S5-221260 | pCR TS 28.312 Add attributes of the IntentReport | AsiaInfo | noted | - | - |
| S5-221261 | pCR TS 28.312 update clause 4.2.2 and clause 6.3.3 | AsiaInfo | revised | - | S5-221755 |
| S5-221262 | Rel-16 CR 28.541 Network slice subnet capability IOC | Samsung Electronics Benelux BV | not pursued | - | - |
| S5-221263 | New SID on Digital twin for network management | CMCC | noted | - | - |
| S5-221264 | S5-xxxxxx Rel-17 CR TS 28.552 Updating packets based performance measurements | Harman GmbH | withdrawn | - | - |
| S5-221265 | Management Aspect of User Plane Enhancement | CMCC | revised | - | S5-221509 |
| S5-221266 | S5-xxxxxx Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network | Harman GmbH | withdrawn | - | - |
| S5-221267 | pCR 28.824 Describe possible solutions for eMnS discovery service | Huawei, Ericsson | noted | - | - |
| S5-221268 | Add S-NSSAI mapping to support National Roaming | Ericsson India Private Limited (TSDSI) | not pursued | - | - |
| S5-221269 | Rel-17 CR 28.531 Network slice subnet capabilities | Samsung Electronics Benelux BV | not pursued | - | - |
| S5-221270 | Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles not convert to IOC - Stage 3 | Samsung Electronics Benelux BV | revised | - | S5-221710 |
| S5-221271 | pCR draft TS28.104, Rapporteur clean- | NEC, Intel | approved | - | - |
| S5-221272 | Rel-17 CR 28.552 performance measurements for ECS - EES Registration | Samsung Electronics Benelux BV | revised | - | S5-221638 |
| S5-221273 | pCR draft TS28.104, further clarifications and supporting text for clause 6.3 MDA role in cross-domain service assurance | NEC, Intel | approved | - | - |
| S5-221274 | Rel-16 CR 28.622 Add missing definitions of common data types | Nokia, Nokia Shanghai Bell | not pursued | S5-216287 | - |
| S5-221275 | Rel-17 CR 28.552 performance measurements for ECS - Service Provisioning | Samsung Electronics Benelux BV | revised | - | S5-221639 |
| S5-221276 | Rel-17 CR 28.552 performance measurements for EES - EAS Discovery | Samsung Electronics Benelux BV | revised | - | S5-221705 |
| S5-221277 | Attachment\_3GPP Inputs to GSMA OPAG API Mapping\_ after SA5 CH call | WG Vice Chair (MATRIXX Software) | noted | - | - |
| S5-221278 | Rel-17 CR 28.552 performance measurements for EES - EEC Registration | Samsung Electronics Benelux BV | revised | - | S5-221706 |
| S5-221279 | Rel-17 CR 28.552 performance measurements for EES - EAS Registration | Samsung Electronics Benelux BV | revised | - | S5-221707 |
| S5-221280 | Rel-17 InputToDraftCR 28.537 Targeted management data collection | Samsung Electronics Benelux BV | noted | - | - |
| S5-221281 | Rel-17 InputToDraftCR 28.622 ManagementDataSubscription | Samsung, Ericsson | noted | - | - |
| S5-221282 | Rel-17 Discussion paper on definition of tenant | Ericsson España S.A. | revised | - | S5-221547 |
| S5-221283 | pCR 28.538 ECS Performance MnS | Samsung Electronics Benelux BV | revised | - | S5-221634 |
| S5-221284 | NRM enhancements for the SMFFunction (stage 3) | Nokia Germany | revised | - | S5-221556 |
| S5-221285 | pCR 28.538 ECS Performance assurance | Samsung Electronics Benelux BV | revised | - | S5-221635 |
| S5-221286 | pCR 28.538 EES Performance MnS | Samsung Electronics Benelux BV | revised | - | S5-221636 |
| S5-221287 | pCR 28.538 EES Performance assurance | Samsung Electronics Benelux BV | revised | - | S5-221637 |
| S5-221288 | pCR 28.538 EASFunction Definition | Samsung Electronics Benelux BV | revised | - | S5-221631 |
| S5-221289 | pCR 28.538 EESFunction definition | Samsung Electronics Benelux BV | revised | - | S5-221632 |
| S5-221290 | pCR 28.538 EES LCM procedure | Samsung Electronics Benelux BV | revised | - | S5-221708 |
| S5-221291 | pCR 28.538 ECSFunction Definition | Samsung Electronics Benelux BV | revised | - | S5-221633 |
| S5-221292 | pCR 28.104 add alarm analysis | China Mobile Com. Corporation | noted | - | - |
| S5-221293 | pCR 28.104 add inter-gNB beam selection optimization solution | China Mobile Com. Corporation | noted | - | - |
| S5-221294 | pCR 28.104 Add MDA assisted energy saving solution | China Mobile Com. Corporation | merged | - | S5-221612 |
| S5-221295 | Updated WID Edge Computing Management | Samsung Electronics Benelux BV | agreed | - | - |
| S5-221296 | Rel-17 CR 28.622 Add attribute to configure an identifier of a TraceJob | Nokia, Nokia Shanghai Bell | revised | - | S5-221623 |
| S5-221297 | Rel-17 28.622 enhance NRM to support access control | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221298 | Rel-17 28.623 enhance NRM to support access control (stage3) | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221299 | Add MDA context | Nokia Germany | revised | - | S5-221615 |
| S5-221300 | New Rel-18 WID on enhanced Edge Computing Management | Samsung Electronics Benelux BV | revised | - | S5-221554 |
| S5-221301 | Rel-17 28.532 enhance OpenAPI to support access control | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-221302 | Add MDA types | Nokia Germany | revised | - | S5-221603 |
| S5-221303 | New WID on enhancement of 5G+ NRM features | Nokia, Nokia Shanghai Bell | revised | - | S5-221510 |
| S5-221304 | Rel-17 CR 32.291 Correcting response code 2xx | Ericsson LM | revised | - | S5-221683 |
| S5-221305 | Rel-17 CR 32.291 Correcting response code 3xx | Ericsson LM | not pursued | - | - |
| S5-221306 | Rel-17 CR 32.291 Correcting response code 4xx | Ericsson LM | revised | - | S5-221684 |
| S5-221307 | Rel-17 CR 32.291 Correcting response code 5xx | Ericsson LM | not pursued | - | - |
| S5-221308 | Rel-17 CR 32.255 Correcting charging rule base name | Ericsson LM | revised | - | S5-221685 |
| S5-221309 | Rel-16 CR 32.291 Correcting quota management suspended | Ericsson LM | agreed | - | - |
| S5-221310 | Rel-17 CR 32.291 Correcting quota management suspended | Ericsson LM | agreed | - | - |
| S5-221311 | Rel-17 CR 32.291 Addition of IMS converged charging yaml | Ericsson LM | revised | - | S5-221649 |
| S5-221312 | Rel-17 CR 32.298 Addition of IMS converged charging ASN.1 | Ericsson LM | revised | - | S5-221686 |
| S5-221313 | Rel-17 CR 32.291 Addition of MMTel converged charging yaml | Ericsson LM | revised | - | S5-221650 |
| S5-221314 | Rel-17 CR 32.298 Addition of MMTel converged charging ASN.1 | Ericsson LM | revised | - | S5-221687 |
| S5-221315 | Rel-17 CR 32.291 Addition of IMS converged charging announcement yaml | Ericsson LM | revised | - | S5-221651 |
| S5-221316 | Rel-17 pCR 28.826 Restructuring clauses 5.3 to 5.5 | Ericsson LM | revised | - | S5-221682 |
| S5-221317 | Rel-17 pCR 28.826 Adding PCF based solution to clause 5.5 | Ericsson LM | noted | - | - |
| S5-221318 | Rel-17 pCR 28.826 Adding use case for operator defined trigger | Ericsson LM | revised | - | S5-221726 |
| S5-221319 | Rel-17 pCR 28.826 Adding service identifier based solution to clause 5.3 | Ericsson LM | noted | - | - |
| S5-221320 | Rel-17 pCR 28.826 Adding use case for cancel failed event | Ericsson LM | revised | - | S5-221736 |
| S5-221321 | Rel-17 pCR 28.827 Corrections to clause 7.1 | Ericsson LM | revised | - | S5-221681 |
| S5-221322 | Rel-17 pCR 28.827 Corrections to clause 7.2 | Ericsson LM | approved | - | - |
| S5-221323 | Rel-17 pCR 28.827 Corrections to clause 7.3 | Ericsson LM | approved | - | - |
| S5-221324 | Rel-17 pCR 28.827 Corrections to clause 7.4 | Ericsson LM | approved | - | - |
| S5-221325 | Rel-17 pCR 28.827 Adding use case and solution for clause 7.5 | Ericsson LM | noted | - | - |
| S5-221326 | Rel-17 pCR 28.827 Adding use case and solution for clause 7.6 | Ericsson LM | revised | - | S5-221679 |
| S5-221327 | Presentation sheet for approval to TS 28.538 | Samsung Electronics Benelux BV | revised | - | S5-221762 |
| S5-221328 | Correct YANG Network Slice NRM solution set reference | Ericsson LM | withdrawn | - | - |
| S5-221329 | New SID Study on Management of Cloud Native Virtualized Network Functions | China Mobile Com. Corporation | revised | - | S5-221511 |
| S5-221330 | Rel-17 Input to DraftCR 28.622 Add file download control NRM fragment | Ericsson LM | revised | S5-216291 | S5-221757 |
| S5-221331 | Add QMC job | Ericsson LM | withdrawn | - | - |
| S5-221332 | pCR 28.105 Add scope | Intel, NEC | revised | - | S5-221616 |
| S5-221333 | pCR 28.105 Add overview | Intel, NEC | revised | - | S5-221617 |
| S5-221334 | pCR 28.105 Add service framework for AI-ML model training | Intel, NEC | revised | - | S5-221618 |
| S5-221335 | pCR 28.105 Move in ML model training part from TS 28.104 | Intel | approved | - | - |
| S5-221336 | pCR 28.105 Add NRMs for AI-ML model training | Intel | revised | - | S5-221620 |
| S5-221337 | Initial skeleton (v000) of TS 28.105 | Intel | approved | - | - |
| S5-221338 | pCR 28.104 Move out ML model training part to TS 28.105 | Intel | revised | - | S5-221619 |
| S5-221339 | pCR 28.104 Update NRM for MDA request | Intel | revised | - | S5-221613 |
| S5-221340 | Editorial clean up of mobilty KPIs HO success rate | Ericsson Limited | agreed | - | - |
| S5-221341 | pCR 28.104 Update MDA service framework and data definitions for coverage problem analysis | Intel | revised | - | S5-221607 |
| S5-221342 | CR Rel-17 28.552 Add measurements to support coverage problem analysis for MDA | Intel | revised | - | S5-221608 |
| S5-221343 | New SID on Advanced Alarm Management for 5G | China Unicom | revised | - | S5-221368 |
| S5-221344 | CR Rel-17 28.552 Add measurements related to location context transfer for LMF | Intel | revised | - | S5-221543 |
| S5-221345 | Editorial clean up of mobilty KPIs HO success rate | Ericsson Limited | agreed | - | - |
| S5-221346 | CR Rel-17 28.552 Add measurements related to location determination for LMF | Intel | revised | - | S5-221544 |
| S5-221347 | New SID on Network Data Quality Management | China Unicom | noted | - | - |
| S5-221348 | pCR 32.257 Add charging information 5GS usage charging for edge enabling | Intel | revised | - | S5-221688 |
| S5-221349 | CR Rel-17 32.255 Add charging information for 5GS usage for Edge Computing | Intel | revised | - | S5-221720 |
| S5-221350 | pCR 32.257 Add principles and scenarios for edge enabling infrastructure resource usage charging | Intel | revised | - | S5-221658 |
| S5-221351 | pCR 32.257 Add charging information definition for edge enabling infrastructure resource usage charging | Intel | revised | - | S5-221659 |
| S5-221352 | pCR 32.257 Add principles and scenarios for edge application server deployment charging | Intel | revised | - | S5-221660 |
| S5-221353 | New SID on Management Aspect Enhancement of 5G MOCN Network Sharing | China Unicom | revised | S5-221204 | S5-221512 |
| S5-221354 | pCR 32.257 Add charging information definition for edge application server deployment charging | Intel | revised | - | S5-221663 |
| S5-221355 | pCR 32.257 Add principles and scenarios for edge enabling services charging | Intel | revised | - | S5-221661 |
| S5-221356 | Update to include NR and adding VR | Ericsson Limited | agreed | - | - |
| S5-221357 | pCR 32.257 Add charging information definition for edge enabling services charging | Intel | noted | - | - |
| S5-221358 | Revised WID Charging aspects of edge computing | Intel | agreed | - | - |
| S5-221359 | New SID on intent-driven management for network slicing | Ericsson Inc. | revised | - | S5-221513 |
| S5-221360 | New SID on Knowledge Management Service | China Unicom | noted | - | - |
| S5-221361 | WI Exception for ECM | Samsung Electronics Benelux BV | noted | - | - |
| S5-221362 | Rel-17 Input to DraftCR 28.537 Add requirements for context data | Nokia, Nokia Shanghai ell | revised | S5-216293 | S5-221559 |
| S5-221363 | Rel-17 Input to DraftCR 28.537 Add requirements for managing external management data | Nokia, Nokia Shanghai Bell | noted | S5-216292 | - |
| S5-221364 | Rel-17 Input to DraftCR 28.622 Add solution for reporting and storing data | Nokia, Nokia Shanghai Bell | noted | S5-216294 | - |
| S5-221365 | Rel-17 28.532 enhance OpenAPI to support access control | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221366 | pCR - 28.819 Proposed overall process | China Mobile Com. Corporation | noted | - | - |
| S5-221367 | pCR draft TS28.104, add historical data handling for MDA | NEC, Intel | withdrawn | - | - |
| S5-221368 | New SID on Advanced Alarm Management for 5G | China Unicom | noted | S5-221343 | - |
| S5-221369 | New WID on continuous integration continuous delivery support for 3GPP NFs | China Mobile Com. Corporation | noted | - | - |
| S5-221370 | pCR - 28.819 - Solution of test orchestration | China Mobile Com. Corporation | noted | - | - |
| S5-221371 | Input to DraftCR Add file download NRM fragment, YANG | Ericsson LM | revised | - | S5-221759 |
| S5-221372 | New SID on Management Model of Base Station | China Unicom | noted | - | - |
| S5-221373 | Reply LS on network slice management service consumption | Alibaba Group | revised | - | S5-221551 |
| S5-221374 | Rel-17 CR 28.541 Update maximumDeviationHoTrigger | Ericsson France S.A.S | withdrawn | - | - |
| S5-221375 | Rel-16 CR 28.552 Correct wording and header | Ericsson France S.A.S | agreed | - | - |
| S5-221376 | Rel-17 CR 28.552 Correct wording and header | Ericsson France S.A.S | agreed | - | - |
| S5-221377 | Rel-17 CR 28.552 Conditional handover measurements | Ericsson France S.A.S | revised | - | S5-221595 |
| S5-221378 | Rel-17 CR 28.554 Add KPI for HO success rate for all handover types | Ericsson France S.A.S | revised | - | S5-221596 |
| S5-221379 | Input to Draft CR 28.313 E\_HOO End-of-release cleanup | Ericsson France S.A.S | approved | - | - |
| S5-221380 | WID Enhancement\_Handover\_optimization | Ericsson France S.A.S | withdrawn | - | - |
| S5-221381 | DraftCR for E-HOO - TS 28.313 | Ericsson France S.A.S | approved | - | - |
| S5-221382 | Correct maximumDeviationHoTrigger | Ericsson France S.A.S | revised | S5-216326 | S5-221517 |
| S5-221383 | Add Annex with code of UML diagrams | Ericsson GmbH, Eurolab, Deutsche Telekom | agreed | - | - |
| S5-221384 | pCR 28.312 ServiceDeploymentExpectation definition | Samsung Electronics Benelux BV | revised | - | S5-221754 |
| S5-221385 | Update assurance scope data type description | Ericsson GmbH, Eurolab, Deutsche Telekom | not pursued | - | - |
| S5-221386 | Discussion paper on cleaning up the eCosla stage 2 descriptions | Ericsson GmbH, Eurolab, Deutsche Telekom | noted | - | - |
| S5-221387 | Input to draftCR TS 28.536 clean up stage 2 descriptions | Ericsson GmbH, Eurolab, Deutsche Telekom | revised | - | S5-221588 |
| S5-221388 | Discussion paper on communication service assurance and closed control loops | Ericsson GmbH, Eurolab | noted | - | - |
| S5-221389 | Discussion paper on eCosla completion | Ericsson GmbH, Eurolab | revised | - | S5-221589 |
| S5-221390 | Correct YANG Network Slice NRM solution set reference | Ericsson LM | agreed | - | - |
| S5-221391 | Revised WID on Enhanced Closed loop SLS assurance | Ericsson GmbH, Eurolab | revised | - | S5-221590 |
| S5-221392 | Add QMC job, stage 3 YANG module | Ericsson LM | not pursued | - | - |
| S5-221393 | Clarify handling of modified network slice profile | Ericsson GmbH, Eurolab | not pursued | - | - |
| S5-221394 | Add network slice job class to NRM discussion | Ericsson GmbH, Eurolab | not pursued | - | - |
| S5-221395 | Update high level ProSe architecture | CATT | revised | - | S5-221676 |
| S5-221396 | Update general charging principles for 5G ProSe | CATT | revised | - | S5-221662 |
| S5-221397 | Adding basic principles for 5G ProSe convergent charging | CATT | revised | - | S5-221652 |
| S5-221398 | Adding message flows for 5G ProSe Direct Discovery converged charging | CATT | revised | - | S5-221653 |
| S5-221399 | Update 5GC NRM for 5G\_DDNMF | CATT | revised | - | S5-221516 |
| S5-221400 | Revised WID on Enhancement of Handover Optimization | Ericsson France S.A.S | agreed | - | - |
| S5-221401 | Rel-17 Input to DraftCR 28.622 Add data collection job to allow consumers without detailed knowledge of the network to request for data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S5-221402 | Rel-17 CR 28.622 Add data type to enable operations such as threshold monitoring or data collection according to a schedule | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221403 | Rel-16 CR 28.622 Structuring of TraceJob IOC and Clean Up | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221404 | Rel-17 CR 28.622 Structuring of TraceJob IOC and Clean Up | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221405 | Rel-17 CR 28.623 Structuring of TraceJob IOC and Clean Up | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221406 | Rel-17 CR 28.622 Add parameter to configure beam level measurements in NR MDT | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-221407 | Rel-17 CR 28.623 Add parameter to configure beam level measurements in NR MDT | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-221408 | Rel-17 CR 28.623 Add attribute to configure an identifier of a TraceJob | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-221409 | Discussion paper on Management Data Collection Job | Nokia, Nokia Shanghai Bell | noted | - | - |
| S5-221410 | Rel-17 draftCR 28.537 Add requirements for data management | Nokia, Nokia Shanghai Bell | noted | S5-216098 | - |
| S5-221411 | Rel-16 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | revised | - | S5-221524 |
| S5-221412 | Rel-17 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | revised | - | S5-221525 |
| S5-221413 | Rel-17 CR 28.552 Enhance PM on Handover failures per beam related to MRO for intra-system mobility | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S5-221414 | Rel-17 CR 28.552 Add PM on Angle of Arrival | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221415 | Adding QMC job | Ericsson Limited | not pursued | - | - |
| S5-221416 | YANG Solution Set for Generic Radio Access Network NRM | Ericsson Hungary Ltd | not pursued | S5-216392 | - |
| S5-221417 | TS 28.541 Rel-17 CR TS 28.541 Add Reservation check NRM fragment | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221418 | Rel-17 CR TS 28.541 Asynchronous Network Slice provisioning using createMOI | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-221419 | Rel-17 Input to DraftCR 28.622 Add solution for data discovery | Ericsson Telecomunicazioni SpA | noted | - | - |
| S5-221420 | Technical Discussion on TTM reduction for new Service offerings | Ericsson Telecomunicazioni SpA | noted | - | - |
| S5-221421 | Update intent information model | Ericsson Telecomunicazioni SpA | noted | - | - |
| S5-221422 | New SID on further Enhancements of Management of Trace/MDT | Nokia, Nokia Shanghai Bell | revised | - | S5-221514 |
| S5-221423 | Add solution for product and service order procedures to clause 7 | Ericsson GmbH, Eurolab | revised | - | S5-221742 |
| S5-221424 | eMnS service | Ericsson GmbH, Eurolab | noted | - | - |
| S5-221425 | Input to issues and gaps in clause 5 | Ericsson GmbH, Eurolab | noted | - | - |
| S5-221426 | Input to potential requirements in clause 6 | Ericsson GmbH, Eurolab | noted | - | - |
| S5-221427 | Input to potential solutions in clause 7.1 | Ericsson GmbH, Eurolab | noted | - | - |
| S5-221428 | Rel-17 CR 28.623 Add data type to enable operations such as threshold monitoring or data collection according to a schedule | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S5-221429 | Move key issue list out of clause 4 | Ericsson GmbH, Eurolab | noted | - | - |
| S5-221430 | Update procedure and add solution for product on-boarding | Ericsson GmbH, Eurolab | revised | - | S5-221743 |
| S5-221431 | pCR draft TS28.104, add historical data handling for MDA | NEC, Intel | noted | - | - |
| S5-221432 | pCR 28.824 Remove EN in 5.4 | Lenovo, Motorola Mobility | revised | - | S5-221744 |
| S5-221433 | pCR 28.824 Update position and add solution for direct MnS exposure | Lenovo (Beijing) Ltd | withdrawn | - | - |
| S5-221434 | pCR 28.824 Update position and add solution for direct MnS exposure | Lenovo, Motorola Mobility | noted | - | - |
| S5-221435 | pCR 28.819 Add Intro | Lenovo, Motorola Mobility, CMCC | approved | - | - |
| S5-221436 | pCR 28.819 Update to feature selection solution | Lenovo, Motorola Mobilty, CMCC | approved | - | - |
| S5-221437 | pCR 28.819 Update Simulation Testing with solution | Lenovo, Motorola mobility, CMCC | approved | - | - |
| S5-221438 | pCR 28.819 Update Scope | Lenovo, Motorola mobility, CMCC | revised | - | S5-221717 |
| S5-221439 | pCR 28.819 Remove ENs in Section 4.2 and 6.4.2 and 8 | Lenovo, Motorola Mobility, CMCC | approved | - | - |
| S5-221440 | pCR 28.819 Remove EN in Section 6.1.3 | Lenovo, Motorola Mobility | approved | - | - |
| S5-221441 | S5-221441 pCR 28.819 Add overall process | Lenovo, Motorola Mobility | noted | - | - |
| S5-221442 | R17 CR 28.536 Add Solution for Pause point | Lenovo, Motorola Mobility | not pursued | - | - |
| S5-221443 | R17 CR 28.536 Add Solution for Pause point | Lenovo (Beijing) Ltd | not pursued | - | - |
| S5-221444 | CR 28.536 Add Solution for disabling CL action | Lenovo (Beijing) Ltd | not pursued | - | - |
| S5-221445 | REl 17 CR 28.535 Convert draft CR S5-215622 | Lenovo (Beijing) Ltd | not pursued | - | - |
| S5-221446 | LS on RAT Type value for NR Redcap | China Mobile Com. Corporation | noted | - | - |
| S5-221447 | Rel-17 CR 32.255 Add charging requirement to support NR RedCap | China Mobile Com. Corporation | revised | - | S5-221721 |
| S5-221448 | New R18 SID on MP-CP Conflict management and coordination | Lenovo (Beijing) Ltd | noted | - | - |
| S5-221449 | Update of Stage 2 / Stage 3 alignment principles in SA5 working procedures | SA5 Chair, SA5 Vice chair (Huawei) | revised | - | S5-221546 |
| S5-221450 | Rel-17 CR TS 28.552 Adding new packets based performance measurements | Harman GmbH | revised | - | S5-221545 |
| S5-221451 | Rel-17 CR TS 28.552 Updating packets based performance measurements | Harman GmbH | revised | - | S5-221541 |
| S5-221452 | Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network | Harman GmbH | not pursued | - | - |
| S5-221453 | Resubmitted LS on Guidelines on Port Allocation for New 3GPP Interfaces | C4-214848 | noted | - | - |
| S5-221454 | Reply LS on Guidelines on Port Allocation for New 3GPP Interfaces | R3-216233 | noted | - | - |
| S5-221455 | LS on the first deliverable on use cases for autonomous networks from ITU FG-AN | ITU-T FOCUS GROUP ON AUTONOMOUS NETWORKS (FG-AN) | postponed | - | - |
| S5-221456 | Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486 | TM Forum | replied to | - | - |
| S5-221457 | Resubmitted LS APT REPORT ON EMERGING CRITICAL APPLICATIONS & USE CASES OF IMT FOR INDUSTRIAL, SOCIETAL AND ENTERPRISE USERS | APT Wireless Group | noted | - | - |
| S5-221458 | Liaison  Multi-SDO Autonomous Networks (AN) Formal Liaison:  Minutes and Actions 22nd Nov 2021 Meeting #13  Ref AN-SDO2021-13 | TM Forum | noted | - | - |
| S5-221459 | Resubmitted Liaison  Multi-SDO Autonomous Networks Liaison:  Intent Management documents for information and feedback | TM Forum | noted | - | - |
| S5-221460 | Liaison  Multi-SDO Autonomous Networks (AN) Formal Liaison:  22nd November 2021 Meeting Invitation, Agenda, Bridge, and  Meeting Schedule Ref AN-SDO2021-13 | TM Forum | noted | - | - |
| S5-221461 | Multi-SDO Autonomous Networks (AN) Formal Liaison:  Notification of Open Presentation 14th Jan and 31st Jan 2020 (postponed December) formal meeting #15 Ref AN-SDO2022-01 | TM Forum | noted | - | - |
| S5-221462 | Reply LS from GSMA Operator Platform API Group to 3GPP SA, SA2, SA5, SA6 and ETSI ISG MEC on edge computing definition and integration | GSMA | noted | - | - |
| S5-221463 | Reply LS from GSMA Operator Platform Group to 3GPP SA, SA2, SA5, SA6 and ETSI ISG MEC on edge computing definition and integration. | GSMA | noted | - | - |
| S5-221464 | Reply LS ccSA5 on Beam measurement reports for the MDT measurements | R2-2111476 | noted | - | - |
| S5-221465 | Reply LS ccSA5 on MDT Stage 2 and Stage 3 Alignment (reply LS to R3-207222) | R2-2111567 | noted | - | - |
| S5-221466 | LS ccSA5 on RAN visible QoE | R2-2111603 | noted | - | - |
| S5-221467 | Resubmitted LS on RAN3 agreements for NR QoE | R3-214477 | noted | - | - |
| S5-221468 | Reply LS (to S5-214652) on the F1 interface for MOCN network sharing for multiple Cell Identity broadcast scenario | R3-216218 | noted | - | - |
| S5-221469 | Response to LS Reply LS on Enhancement of RAN Slicing | R3-216238 | postponed | - | - |
| S5-221470 | Resubmitted LS on introducing NR RedCap Indication | S2-2107853 | noted | - | - |
| S5-221471 | Resubmitted LS on MINT functionality for Disaster Roaming | S2-2108172 | noted | - | - |
| S5-221472 | Reply LS ccSA5 on LS on MINT functionality for Disaster Roaming | S3-214342 | noted | - | - |
| S5-221473 | Reply LS ccSA5 on LS on MINT functionality for Disaster Roaming | S3-214416 | noted | - | - |
| S5-221474 | Reply LS ccSA5 on QoE report handling at QoE pause | S3-214458 | noted | - | - |
| S5-221475 | Resubmitted LS on TS 28.404/TS 28.405 Clarification | S4-211234 | postponed | - | - |
| S5-221476 | Resubmitted LS on slicing management aspects in relation to SEAL | S6-210709 | replied to | - | - |
| S5-221477 | Resubmitted LS on network slice management service consumption | S6-212460 | replied to | - | - |
| S5-221478 | LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539) | ITU-T SG2 | replied to | - | - |
| S5-221479 | LS on the Consent of Recommendation ITU-T M.3381 (ex. M.resm-AI), "Requirements for energy saving management of 5G RAN system with AI" | ITU-T SG2 | replied to | - | - |
| S5-221480 | LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation" | ITU-T SG2 | noted | - | - |
| S5-221481 | LS/r on methodology harmonization update (reply to 3GPP TSG SA5-S5-215481) | ITU-T SG2 | postponed | - | - |
| S5-221482 | LS on ongoing work within ITU-T Study Group 3 (SG3) on new Technical Report on “IMT2020-Related Policy Considering MVNOs” | ITU-T SG3 | noted | - | - |
| S5-221483 | LS on Energy Efficiency as guiding principle for new solutions | SP-211621 | replied to | - | - |
| S5-221484 | TR 28.827, Adding Conclusions | Vodafone Italia SpA,MATRIXX Software | revised | - | S5-221656 |
| S5-221485 | Multi-SDO Autonomous Networks (AN) Formal Liaison: Notification of Open Presentation 14th Jan and 21st February 2022 (postponed December) formal meeting #15 Ref AN-SDO2022-01 rev 1 | TM Forum | noted | - | - |
| S5-221486 | Forge process update of clause 23.4 and 23.9 in SA5 Working Procedures | WG chair | approved | - | - |
| S5-221487 | Rel-18 work prioritization | WG chair | revised | - | S5-221500 |
| S5-221488 | Correct YANG mapping in TS document | Ericsson Hungary Ltd | agreed | - | - |
| S5-221489 | Correct YANG mapping in TS document | Ericsson Hungary Ltd | agreed | - | - |
| S5-221490 | e-meeting process | WG Chair | noted | S5-221002 | - |
| S5-221491 | Reply LS ccSA5 to GSMA Operator Platform Group on edge computing definition and integration | SP-220003 | noted | - | - |
| S5-221492 | Reply to: LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539) | CMCC | approved | - | - |
| S5-221493 | Reply to: Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486 | Ericsson | approved | - | - |
| S5-221494 | Reply LS on Intent Management documents for information and feedback | Ericsson | withdrawn | - | - |
| S5-221495 | Rel-16 CR TS 32.422 Correct the value of Report Interval in NR for alignment | China Telecom | agreed | - | - |
| S5-221496 | Rel-17 CR TS 32.256 Clarify definition of AllowedValues | Ericsson | agreed | - | - |
| S5-221497 | Forge working procedure change in SA5 Working Procedures | Nokia, Nokia Shanghai Bell | agreed | S5-221059 | - |
| S5-221498 | Updated SA5 working procedures | WG Chair | approved | - | - |
| S5-221499 | Revised WID Rel-17 NSA\_SBMA | Ericsson | agreed | - | - |
| S5-221500 | Rel-18 work prioritization | WG chair | endorsed | S5-221487 | - |
| S5-221501 | Reply LS to SA on energy efficiency as guiding principle for new solutions | Orange | approved | S5-221015 | - |
| S5-221502 | Reply LS on Recommendation ITU-T M.3381 | Intel, NEC, Orange | approved | S5-221016 | - |
| S5-221503 | CR Rel-17 TS 28.533 Add 5G specification information | Huawei Technologies (Korea) | agreed | S5-221165 | - |
| S5-221504 | CR Rel-16 TS 32.103 Remove 5G specification information | Huawei Technologies (Korea) | agreed | S5-221167 | - |
| S5-221505 | Preparation of checking the Rel-17 OAM work progress | SA5 Vice chair (Huawei) | noted | S5-221194 | - |
| S5-221506 | New SID on Basic SBMA enabler enhancements | Nokia, Nokia Shanghai Bell | agreed | S5-221239 | - |
| S5-221507 | New SID on Management Aspects of URLLC | China Unicom | agreed | S5-221241 | - |
| S5-221508 | New Rel-18 SID on alignment with GSMA OPG and ETSI MEC for Edge computing management | Samsung Electronics Benelux BV | agreed | S5-221242 | - |
| S5-221509 | Management Aspect of User Plane Enhancement | CMCC | agreed | S5-221265 | - |
| S5-221510 | New WID on enhancement of 5G+ NRM features | Nokia, Nokia Shanghai Bell | agreed | S5-221303 | - |
| S5-221511 | New SID Study on Management of Cloud Native Virtualized Network Functions | China Mobile Com. Corporation | agreed | S5-221329 | - |
| S5-221512 | New SID on Management Aspect Enhancement of 5G MOCN Network Sharing | China Unicom | agreed | S5-221353 | - |
| S5-221513 | New SID on intent-driven management for network slicing | Ericsson Inc. | agreed | S5-221359 | - |
| S5-221514 | New SID on further Enhancements of Management of Trace/MDT | Nokia, Nokia Shanghai Bell | agreed | S5-221422 | - |
| S5-221515 | Input to draftCR TS 28.536 clean up stage 2 descriptions | Ericsson GmbH, Eurolab, Deutsche Telekom | approved | - | - |
| S5-221516 | Update 5GC NRM for 5G\_DDNMF | CATT | agreed | S5-221399 | - |
| S5-221517 | Correct maximumDeviationHoTrigger | Ericsson France S.A.S | agreed | S5-221382 | - |
| S5-221518 | Notification Subscription changes | Ericsson Hungary Ltd | agreed | S5-221064 | - |
| S5-221519 | Notification Subscription changes | Ericsson Hungary Ltd | agreed | S5-221027 | - |
| S5-221520 | Alarm Record changes | Ericsson Hungary Ltd | agreed | S5-221065 | - |
| S5-221521 | Alarm Record changes | Ericsson Hungary Ltd | agreed | S5-221026 | - |
| S5-221522 | Specifying multivalue attributes | Ericsson Hungary Ltd | agreed | S5-221025 | - |
| S5-221523 | Rel-17 CR TS 32.422 Correct the value of Report Interval in NR for alignment | China Telecom Corporation Ltd. | agreed | S5-221148 | - |
| S5-221524 | Rel-16 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | agreed | S5-221411 | - |
| S5-221525 | Rel-17 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | agreed | S5-221412 | - |
| S5-221526 | pCR 28.557 Add new NPN management related requirements | TELEFONICA S.A. | approved | S5-221038 | - |
| S5-221527 | pCR 28.557 Solution for management of SNPN | Huawei | approved | S5-221082 | - |
| S5-221528 | pCR 28.557 Update solution for NPN provisioning by a network slice of a PLMN | Huawei | approved | S5-221083 | - |
| S5-221529 | pCR 28.557 Solution for collecting UE related data | Huawei | approved | S5-221085 | - |
| S5-221530 | pCR 28.557 Use case of collecting UE related data | Huawei | approved | S5-221086 | - |
| S5-221531 | Rel-17 CR 28.541 Update RANSliceSubnetProfile attributes | TELEFONICA S.A. | agreed | S5-221035 | - |
| S5-221532 | Rel-17 CR 28.541 Update energy efficiency attribute | Huawei | agreed | S5-221080 | - |
| S5-221533 | TS 28.541 Clean up of eMA5SLA | CMCC | agreed | S5-221254 | - |
| S5-221534 | Add MDT reporting for NR | Ericsson LM | agreed | S5-221168 | - |
| S5-221535 | Add MDT signalling activation and deactivation mechanisms in a split architecture for NR | Ericsson LM | agreed | S5-221170 | - |
| S5-221536 | Add MDT management activation and deactivation mechanism in the case of split architecture for NR | Ericsson LM | agreed | S5-221172 | - |
| S5-221537 | Discussion on RACH NSA measurements | Nokia Solutions & Networks (I) | endorsed | S5-221017 | - |
| S5-221538 | Add Space Division Multiplexing PRB Usage for MIMO cell | CMCC, Huawei, ZTE | agreed | S5-221058 | - |
| S5-221539 | Rel-17 CR TS 28.552 Modify description of MIMO PRB usage for cell | China Unicom | agreed | S5-221236 | - |
| S5-221540 | Rel-17 CR TS 28.552 Modify description of sampling occasion for scheduled layers | China Unicom | agreed | S5-221237 | - |
| S5-221541 | Rel-17 CR TS 28.552 Updating packets based performance measurements | Harman GmbH | agreed | S5-221451 | - |
| S5-221542 | Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network | Harman GmbH | agreed | - | - |
| S5-221543 | CR Rel-17 28.552 Add measurements related to location context transfer for LMF | Intel | agreed | S5-221344 | - |
| S5-221544 | CR Rel-17 28.552 Add measurements related to location determination for LMF | Intel | agreed | S5-221346 | - |
| S5-221545 | Rel-17 CR TS 28.552 Adding new packets based performance measurements | Harman GmbH | agreed | S5-221450 | - |
| S5-221546 | Update of Stage 2 / Stage 3 alignment principles in SA5 working procedures | SA5 Chair, SA5 Vice chair (Huawei) | endorsed | S5-221449 | - |
| S5-221547 | Rel-17 Discussion paper on definition of tenant | Ericsson España S.A. | endorsed | S5-221282 | - |
| S5-221548 | Reply LS on slicing management aspects in relation to SEAL | Huawei | approved | S5-221079 | - |
| S5-221549 | Asynchronous operation NRM additions | Ericsson Hungary Ltd,Nokia | agreed | S5-221023 | - |
| S5-221550 | Asynchronous operation NRM additions - YANG Stage 3 | Ericsson Hungary Ltd | agreed | S5-221024 | - |
| S5-221551 | Reply LS on network slice management service consumption | Alibaba Group | revised | S5-221373 | S5-221560 |
| S5-221552 | New WID on Network Slice Management Capability Exposure | Alibaba Group | noted | S5-221195 | - |
| S5-221553 | New SID on Fault Supervision Evolution | China Mobile Com. Corporation;HUAWEI | agreed | S5-221203 | - |
| S5-221554 | New Rel-18 WID on enhanced Edge Computing Management | Samsung Electronics Benelux BV | agreed | S5-221300 | - |
| S5-221555 | NRM enhacements for SMFFunction | Nokia Germany | agreed | S5-221180 | - |
| S5-221556 | NRM enhancements for the SMFFunction (stage 3) | Nokia Germany | agreed | S5-221284 | - |
| S5-221557 | Adding Signalling Based Activation for NR | Ericsson Limited | not pursued | S5-221042 | - |
| S5-221558 | Rel-17 CR TS 28.541 Add tenant IOC to support multiple tenant environment | Huawei | not pursued | S5-221161 | - |
| S5-221559 | Rel-17 Input to DraftCR 28.537 Add requirements for context data | Nokia, Nokia Shanghai ell | approved | S5-221362 | - |
| S5-221560 | Reply LS on network slice management service consumption | Alibaba Group | approved | S5-221551 | - |
| S5-221565 | pCR 28.538 Edge NRM Stage-3 | Samsung | approved | - | - |
| S5-221566 | TS 28.541 Correct NR YAML in TS document | Huawei | agreed | - | - |
| S5-221567 | TS 28.541 Correct 5GC YAML in TS document | Huawei | agreed | - | - |
| S5-221568 | TS 28.541 Correct NetworkSlicing YAML in TS document | Huawei | agreed | - | - |
| S5-221569 | Resolving the acquisition of operator’s MIB EN | Alibaba Group | noted | S5-221199 | - |
| S5-221570 | pCR TR 28.824 add solution on eMnS discovery service | AsiaInfo, Alibaba Group | approved | S5-221258 | - |
| S5-221571 | pCR TR 28.824 add procedure for exposed MnS registration | AsiaInfo, Alibaba Group | noted | S5-221259 | - |
| S5-221572 | exception sheet for eMDAS | Intel | agreed | - | - |
| S5-221573 | presentation sheet for TS 28.104 | Intel | approved | - | - |
| S5-221574 | presentation sheet for TS 28.105 | Intel | approved | - | - |
| S5-221575 | pCR TS 28.312 Update RadioNetworkExpectation | Huawei, China Mobile, China Unicom,, Deutsche Telekom | approved | S5-221134 | - |
| S5-221576 | Revised WID for MADCOL | Nokia | agreed | - | - |
| S5-221577 | Exception Sheet for MADCOL | Nokia | agreed | - | - |
| S5-221578 | Rel-17 CR 28.541 Add Stage 3 solutions to support ECM | Intel | agreed | - | - |
| S5-221580 | pCR TS 28.312 Align the description for general concept of intent content | Huawei,Nokia, Deutsche Telekom,AsiaInfo | approved | S5-221132 | - |
| S5-221581 | pCR TS 28.312 Update intent information model | Huawei, China Mobile, China Unicom, Nokia, Deutsche Telekom,AsiaInfo | approved | S5-221133 | - |
| S5-221582 | pCR TS 28.312 Clean up on procedures | Huawei, Deutsche Telekom | approved | S5-221135 | - |
| S5-221583 | Presentation sheet of TS 28.312 for SA Information and Approval | Huawei | approved | S5-221154 | - |
| S5-221584 | pCR TS 28.312 Add feasibility check to the procedures for intent management | China Mobile Com. Corporation | approved | S5-221078 | - |
| S5-221585 | pCR TS 28.312 Rapporteur clean up | Huawei | approved | S5-221131 | - |
| S5-221586 | Editorial on the definition of AssuranceClosedControlLoop | Nokia Germany | agreed | S5-221048 | - |
| S5-221587 | Fixing the "S" qualifier | Nokia Germany | agreed | S5-221197 | - |
| S5-221588 | Input to draftCR TS 28.536 clean up stage 2 descriptions | Ericsson GmbH, Eurolab, Deutsche Telekom | not pursued | S5-221387 | - |
| S5-221589 | Discussion paper on eCosla completion | Ericsson GmbH, Eurolab | endorsed | S5-221389 | - |
| S5-221590 | Revised WID on Enhanced Closed loop SLS assurance | Ericsson GmbH, Eurolab | agreed | S5-221391 | - |
| S5-221591 | Rel-17 CR 28.313 Add information in the PCI configuration notification | Intel | agreed | S5-221074 | - |
| S5-221592 | Rel-17 CR 28.313 Add information in the C-SON notification | Intel | agreed | S5-221075 | - |
| S5-221593 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage3 | Huawei | agreed | S5-221192 | - |
| S5-221594 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage2 | Huawei | agreed | S5-221191 | - |
| S5-221595 | Rel-17 CR 28.552 Conditional handover measurements | Ericsson France S.A.S | agreed | S5-221377 | - |
| S5-221596 | Rel-17 CR 28.554 Add KPI for HO success rate for all handover types | Ericsson France S.A.S | agreed | S5-221378 | - |
| S5-221597 | Rel-17 CR 28.622 Add support for discovery of managed entities | Huawei | agreed | S5-221209 | - |
| S5-221598 | Rel-17 CR 28.623 Add support for discovery of managed entities | Huawei | agreed | S5-221210 | - |
| S5-221599 | Rel-17 CR TS 28.541 Alignment on NR NRM for MOCN network sharing | Huawei,Orange,China Mobile,China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | agreed | S5-221136 | - |
| S5-221600 | Rel-17 CR TS 32.130 Add solution description for the requirements for the management of the shared NG-RAN NE(s) in MOCN network sharing scenario | Huawei,Orange,China Mobile, China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | agreed | S5-221139 | - |
| S5-221601 | Rel-17 CR TS 28.541 Add administrativeState attribute in OperatorNRCellDU | ZTE Corporation, China Unicom | agreed | S5-221171 | - |
| S5-221602 | Including individual PM, KPI, trace and QoE statistics and predictions as additional MDA types | Nokia Germany | approved | S5-221046 | - |
| S5-221603 | Add MDA types | Nokia Germany | approved | S5-221302 | - |
| S5-221604 | CR Rel-17 28.622 Enhance NRM with geographical information supporting MDA | Intel | agreed | S5-221076 | - |
| S5-221605 | CR Rel-17 28.623 Enhance NRM with geographical information supporting MDA | Intel | agreed | S5-221077 | - |
| S5-221606 | pCR TS 28.104 add coverage issue analytics output area definition--stage2 | Huawei | approved | S5-221183 | - |
| S5-221607 | pCR 28.104 Update MDA service framework and data definitions for coverage problem analysis | Intel | approved | S5-221341 | - |
| S5-221608 | CR Rel-17 28.552 Add measurements to support coverage problem analysis for MDA | Intel | agreed | S5-221342 | - |
| S5-221609 | pCR TS28.104 Add E2E latency analysis solution | Huawei | approved | S5-221140 | - |
| S5-221610 | pCR TS28.104 Add network slice throughput analysis solution | Huawei | approved | S5-221144 | - |
| S5-221611 | pCR TS28.104 Add network slice load analysis solution | Huawei | approved | S5-221146 | - |
| S5-221612 | pCR 28.104 Add MDA capability for MDA assisted energy saving analysis | China Telecom Corporation Ltd. | approved | S5-221251 | - |
| S5-221613 | pCR 28.104 Update NRM for MDA request | Intel | approved | S5-221339 | - |
| S5-221614 | pCR TS28.104 Add the requirements for ML model training for MDA | Huawei | approved | S5-221190 | - |
| S5-221615 | Add MDA context | Nokia Germany | approved | S5-221299 | - |
| S5-221616 | pCR 28.105 Add scope | Intel, NEC | approved | S5-221332 | - |
| S5-221617 | pCR 28.105 Add overview | Intel, NEC | approved | S5-221333 | - |
| S5-221618 | pCR 28.105 Add service framework for AI-ML model training | Intel, NEC | approved | S5-221334 | - |
| S5-221619 | pCR 28.104 Move out ML model training part to TS 28.105 | Intel | approved | S5-221338 | - |
| S5-221620 | pCR 28.105 Add NRMs for AI-ML model training | Intel | approved | S5-221336 | - |
| S5-221621 | pCR TS 28.104 add MDA related service components | Huawei | noted | S5-221189 | - |
| S5-221622 | Rel-17 CR 28.532 Add jobId to FileInfo | Nokia, Nokia Shanghai Bell | agreed | S5-221240 | - |
| S5-221623 | Rel-17 CR 28.622 Add attribute to configure an identifier of a TraceJob | Nokia, Nokia Shanghai Bell | agreed | S5-221296 | - |
| S5-221624 | pCR 28.538 add fault supervision procedures | Intel | approved | S5-221067 | - |
| S5-221625 | pCR 28.538 add provisioning use cases | Intel | approved | S5-221068 | - |
| S5-221626 | pCR 28.538 add provisioning procedures | Intel | approved | S5-221069 | - |
| S5-221627 | Rel-17 CR 28.541 Add Stage 2 solutions to support ECM | Intel | agreed | S5-221073 | - |
| S5-221628 | pCR 28.538 add relevent NRM changes to support ECM use cases | Intel | approved | S5-221070 | - |
| S5-221629 | pCR 28.538 adding EDN IOC | Huawei | approved | S5-221224 | - |
| S5-221630 | pCR 28.538 update Edge NRM figure | Huawei | approved | S5-221228 | - |
| S5-221631 | pCR 28.538 EASFunction Definition | Samsung Electronics Benelux BV | approved | S5-221288 | - |
| S5-221632 | pCR 28.538 EESFunction definition | Samsung Electronics Benelux BV | approved | S5-221289 | - |
| S5-221633 | pCR 28.538 ECSFunction Definition | Samsung Electronics Benelux BV | approved | S5-221291 | - |
| S5-221634 | pCR 28.538 ECS Performance MnS | Samsung Electronics Benelux BV | approved | S5-221283 | - |
| S5-221635 | pCR 28.538 ECS Performance assurance | Samsung Electronics Benelux BV | approved | S5-221285 | - |
| S5-221636 | pCR 28.538 EES Performance MnS | Samsung Electronics Benelux BV | approved | S5-221286 | - |
| S5-221637 | pCR 28.538 EES Performance assurance | Samsung Electronics Benelux BV | revised | S5-221287 | S5-221739 |
| S5-221638 | Rel-17 CR 28.552 performance measurements for ECS - EES Registration | Samsung Electronics Benelux BV | agreed | S5-221272 | - |
| S5-221639 | Rel-17 CR 28.552 performance measurements for ECS - Service Provisioning | Samsung Electronics Benelux BV | agreed | S5-221275 | - |
| S5-221640 | Discussion paper on Charging Solution for Roaming with Local Breakout | Vodafone Italia SpA | noted | - | - |
| S5-221641 | New WID on 5G charging for additional roaming scenarios and actors | Vodafone Italia SpA,  MATRIXX Software | agreed | - | - |
| S5-221642 | CH agenda and time plan | CH Chair (MATRIXX Software) | approved | S5-221008 | - |
| S5-221643 | Draft TS 32.257 | Intel Sweden AB | approved | - | - |
| S5-221644 | Draft TR 28.822 | Huawei | approved | - | - |
| S5-221645 | Draft TR 32.847 | MATRIXX Software | approved | - | - |
| S5-221646 | Draft TR 28.826 | Ericsson LM | approved | - | - |
| S5-221647 | Draft TR 28.827 | Ericsson | approved | - | - |
| S5-221648 | Work Item Exception for Charging aspects of Edge Computing | Intel Sweden AB | agreed | - | - |
| S5-221649 | Rel-17 CR 32.291 Addition of IMS converged charging yaml | Ericsson LM | agreed | S5-221311 | - |
| S5-221650 | Rel-17 CR 32.291 Addition of MMTel converged charging yaml | Ericsson LM | agreed | S5-221313 | - |
| S5-221651 | Rel-17 CR 32.291 Addition of IMS converged charging announcement yaml | Ericsson LM | agreed | S5-221315 | - |
| S5-221652 | Adding basic principles for 5G ProSe convergent charging | CATT | agreed | S5-221397 | - |
| S5-221653 | Adding message flows for 5G ProSe Direct Discovery converged charging | CATT | agreed | S5-221398 | - |
| S5-221654 | Rel-17 pCR 32.847 Conclusions for KI#3 | MATRIXX Software | approved | S5-221229 | - |
| S5-221655 | New WID on Network Slice charging based on 5G data connectivity | MATRIXX Software | agreed | S5-221231 | - |
| S5-221656 | TR 28.827, Adding Conclusions | Vodafone Italia SpA,MATRIXX Software | approved | S5-221484 | - |
| S5-221657 | LSout on Enhancement on Charging Identifier Uniqueness Mechanism | Huawei | approved | S5-221094 | - |
| S5-221658 | pCR 32.257 Add principles and scenarios for edge enabling infrastructure resource usage charging | Intel | approved | S5-221350 | - |
| S5-221659 | pCR 32.257 Add charging information definition for edge enabling infrastructure resource usage charging | Intel | approved | S5-221351 | - |
| S5-221660 | pCR 32.257 Add principles and scenarios for edge application server deployment charging | Intel | approved | S5-221352 | - |
| S5-221661 | pCR 32.257 Add principles and scenarios for edge enabling services charging | Intel | approved | S5-221355 | - |
| S5-221662 | Update general charging principles for 5G ProSe | CATT | agreed | S5-221396 | - |
| S5-221663 | pCR 32.257 Add charging information definition for edge application server deployment charging | Intel | approved | S5-221354 | - |
| S5-221664 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in charging procedure | Huawei | agreed | S5-221125 | - |
| S5-221665 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in EPC interworking procedure | Huawei | agreed | S5-221126 | - |
| S5-221666 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in home-routed roaming procedure | Huawei | agreed | S5-221127 | - |
| S5-221667 | Rel-17 CR 32.255 Add charging information of 5GS CIoT | Huawei | agreed | S5-221128 | - |
| S5-221668 | Rel-17 CR 32.255 Add charging requirements of 5GS CIoT | Huawei | agreed | S5-221129 | - |
| S5-221669 | Rel-17 CR TS 32.291 Add charging information of 5GS CIoT | Huawei | agreed | S5-221130 | - |
| S5-221670 | Work Item Exception for 5G Charging for Local breakout roaming of data connectivity | Vodafone | agreed | - | - |
| S5-221671 | Rel-17 CR TS 32.240 Charging architecture for Local Breakout | Vodafone | agreed | - | - |
| S5-221672 | Revised SID on 5G roaming charging architecture for wholesale and retail scenarios | Ericsson LM | agreed | - | - |
| S5-221673 | Presentation of TR 28.827 for Information | Ericsson LM | approved | - | - |
| S5-221674 | Rel-17 CR 32.255 Introduction of Annex on Network Slice charging | MATRIXX Software | agreed | S5-221232 | - |
| S5-221675 | Presentation of TS 32.257 for Information | Intel Sweden AB | approved | - | - |
| S5-221676 | Update high level ProSe architecture | CATT | agreed | S5-221395 | - |
| S5-221677 | Rel-16 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | agreed | S5-221020 | - |
| S5-221678 | Rel-17 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | agreed | S5-221028 | - |
| S5-221679 | Rel-17 pCR 28.827 Adding use case and solution for clause 7.6 | Ericsson LM | approved | S5-221326 | - |
| S5-221680 | LS on 3GPP SA5 work on 5G network energy efficiency and energy saving | Orange | approved | S5-221014 | - |
| S5-221681 | Rel-17 pCR 28.827 Corrections to clause 7.1 | Ericsson LM | approved | S5-221321 | - |
| S5-221682 | Rel-17 pCR 28.826 Restructuring clauses 5.3 to 5.5 | Ericsson LM | approved | S5-221316 | - |
| S5-221683 | Rel-17 CR 32.291 Correcting response code 2xx | Ericsson LM | agreed | S5-221304 | - |
| S5-221684 | Rel-17 CR 32.291 Correcting response code 4xx | Ericsson LM | agreed | S5-221306 | - |
| S5-221685 | Rel-17 CR 32.255 Correcting charging rule base name | Ericsson LM | agreed | S5-221308 | - |
| S5-221686 | Rel-17 CR 32.298 Addition of IMS converged charging ASN.1 | Ericsson LM | agreed | S5-221312 | - |
| S5-221687 | Rel-17 CR 32.298 Addition of MMTel converged charging ASN.1 | Ericsson LM | agreed | S5-221314 | - |
| S5-221688 | pCR 32.257 Add charging information 5GS usage charging for edge enabling | Intel | approved | S5-221348 | - |
| S5-221689 | Rel-17 CR 32.240 Addition of the 5G LAN-type service Description | Huawei | agreed | S5-221098 | - |
| S5-221705 | Rel-17 CR 28.552 performance measurements for EES - EAS Discovery | Samsung Electronics Benelux BV | agreed | S5-221276 | - |
| S5-221706 | Rel-17 CR 28.552 performance measurements for EES - EEC Registration | Samsung Electronics Benelux BV | agreed | S5-221278 | - |
| S5-221707 | Rel-17 CR 28.552 performance measurements for EES - EAS Registration | Samsung Electronics Benelux BV | agreed | S5-221279 | - |
| S5-221708 | pCR 28.538 EES LCM procedure | Samsung Electronics Benelux BV | approved | S5-221290 | - |
| S5-221709 | Latest draft TS 28.315 | Ericsson | approved | - | - |
| S5-221710 | Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles not convert to IOC - Stage 3 | Samsung Electronics Benelux BV | agreed | S5-221270 | - |
| S5-221711 | WI Exception for eNETSLICE\_PRO | Samsung Electronics Benelux BV | agreed | S5-221245 | - |
| S5-221712 | pCR TS28.104 Add service experience analysis solution | Huawei | approved | S5-221142 | - |
| S5-221713 | pCR 28.824 Skeleton restructuring proposal | Huawei, Alibaba | approved | S5-221089 | - |
| S5-221714 | Key issue and solution on exposure without going through BSS | Alibaba Group | approved | S5-221196 | - |
| S5-221715 | pCR 28.819 update notified of new NF version scenario | Huawei | approved | S5-221215 | - |
| S5-221716 | pCR 28.819 CI-CD process updates | Huawei | approved | S5-221213 | - |
| S5-221717 | pCR 28.819 Update Scope | Lenovo, Motorola mobility, CMCC | approved | S5-221438 | - |
| S5-221719 | pCR 28.824 Clarification on access to exposed MnS | Huawei | approved | S5-221216 | - |
| S5-221720 | CR Rel-17 32.255 Add charging information for 5GS usage for Edge Computing | Intel | agreed | S5-221349 | - |
| S5-221721 | Rel-17 CR 32.255 Add charging requirement to support NR RedCap | China Mobile Com. Corporation | agreed | S5-221447 | - |
| S5-221722 | Work Item Exception for Charging Aspects of 5G LAN VN Group | Huawei | agreed | - | - |
| S5-221723 | Revised WID Charging aspects of 5G LAN VN Group | Huawei | agreed | - | - |
| S5-221724 | Rel-17 CR 32.255 Clarification on the 5G LAN type service charging | Huawei | agreed | S5-221100 | - |
| S5-221725 | Rel-17 CR 32.291 Additional charging information for the 5G LAN communication | Huawei | agreed | S5-221102 | - |
| S5-221726 | Rel-17 pCR 28.826 Adding use case for operator defined trigger | Ericsson LM | approved | S5-221318 | - |
| S5-221727 | Rel-17 pCR 28.822 Correction on the solution and conclusion for Topic 4 | Huawei | approved | S5-221096 | - |
| S5-221728 | Rel-17 CR 32.255 Additional charging information for the 5G LAN charging | Huawei | agreed | S5-221101 | - |
| S5-221729 | Rel-17 pCR 28.827 Addition of the soultion for the Roaming Charging Profile | Huawei | approved | S5-221123 | - |
| S5-221730 | Rel-16 CR 32.291 Extensibility Mechanisms for charging | Huawei | agreed | S5-221118 | - |
| S5-221731 | Rel-17 CR 32.291 Extensibility Mechanisms for charging | Huawei | agreed | S5-221119 | - |
| S5-221732 | Rel-17 pCR 28.827 Clarification on the Roaming Charging Profile | Huawei | approved | S5-221124 | - |
| S5-221733 | Work Item Exception for Charging aspects of Architecture Enhancement for NR Reduced Capability Devices | China Mobile Com. Corporation | agreed | - | - |
| S5-221734 | Work Item Exception for Charging aspects of Proximity-based Services in 5GS | CATT | agreed | - | - |
| S5-221735 | Revised WID Charging aspects of Architecture Enhancement for NR Reduced Capability Devices | CMCC | agreed | - | - |
| S5-221736 | Rel-17 pCR 28.826 Adding use case for cancel failed event | Ericsson LM | approved | S5-221320 | - |
| S5-221737 | Rel-17 CR 32.291 Correct the Open API | Huawei | agreed | - | - |
| S5-221738 | Revised work item on management of the enhanced tenant concept | Huawei | agreed | S5-221223 | - |
| S5-221739 | pCR 28.538 EES Performance assurance | Samsung Electronics Benelux BV | approved | S5-221637 | - |
| S5-221740 | SID revised was SP-210131 SID on network slice management capability exposure | Alibaba Group | agreed | S5-221230 | - |
| S5-221741 | Latest draft TS 28.105 | Intel | approved | - | - |
| S5-221742 | Add solution for product and service order procedures to clause 7 | Ericsson GmbH, Eurolab | approved | S5-221423 | - |
| S5-221743 | Update procedure and add solution for product on-boarding | Ericsson GmbH, Eurolab | approved | S5-221430 | - |
| S5-221744 | pCR 28.824 Remove EN in 5.4 | Lenovo, Motorola Mobility | approved | S5-221432 | - |
| S5-221745 | DraftCR for FIMA TS 28.622 | Nokia | approved | - | - |
| S5-221746 | Latest draft TS 28.557 | Huawei | approved | - | - |
| S5-221747 | Latest draft TS 28.312 | Huawei | approved | - | - |
| S5-221748 | Latest draft TS 28.104 | Intel | approved | - | - |
| S5-221749 | Latest draft TS 28.314 | Ericsson | approved | - | - |
| S5-221750 | Latest draft TS 28.316 | Ericsson | approved | - | - |
| S5-221751 | Latest draft TS 28.538 | Samsung | approved | - | - |
| S5-221752 | Latest draft TR 28.824 | Alibaba | approved | - | - |
| S5-221753 | Latest draft TR 28.819 | Lenovo | approved | - | - |
| S5-221754 | pCR 28.312 ServiceDeploymentExpectation definition | Samsung Electronics Benelux BV | approved | S5-221384 | - |
| S5-221755 | pCR TS 28.312 update clause 4.2.2 and clause 6.3.3 | AsiaInfo | approved | S5-221261 | - |
| S5-221756 | MRO additions for CHO and DAPS handover | Ericsson France | agreed | - | - |
| S5-221757 | Rel-17 Input to DraftCR 28.622 Add file download control NRM fragment | Ericsson LM, Nokia | approved | S5-221330 | - |
| S5-221758 | Rel-17 CR 28.623 Add file download NRM fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | agreed | S5-221248 | - |
| S5-221759 | Input to DraftCR Add file download NRM fragment, YANG | Ericsson LM | approved | S5-221371 | - |
| S5-221760 | CR 28.622 Add stage2 definition for file management | Nokia | agreed | - | - |
| S5-221761 | Exception sheet for FIMA | Nokia | withdrawn | - | - |
| S5-221762 | Presentation sheet for approval to TS 28.538 | Samsung Electronics Benelux BV | approved | S5-221327 | - |
| S5-221763 | Exception sheet for eQoE | Ericsson | agreed | - | - |
| S5-221764 | Exception Sheet for IDMS\_MN | Huawei | agreed | - | - |
| S5-221765 | Exception Sheet for eCOSLA | Ericsson | agreed | - | - |
| S5-221766 | Exception Sheet for MSAC | Nokia | agreed | - | - |
| S5-221767 | Revised SID for FS\_CICDNS | Lenovo, Motorola Mobility, CMCC | agreed | - | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S5-221007 | 21/02/2022 09:42:49 | noted |
| S5-221247 | 01/02/2022 13:58:45 | agreed |
| S5-221400 | 07/02/2022 12:52:10 | agreed |
| S5-221498 | 01/02/2022 09:44:39 | approved |
| S5-221500 | 08/02/2022 07:39:21 | agreed |
| S5-221515 | 02/02/2022 07:43:03 | approved |
| S5-221548 | 01/02/2022 09:45:27 | approved |
| S5-221551 | 01/02/2022 09:48:34 | revised |
| S5-221557 | 14/02/2022 07:32:17 | email approval |
| S5-221558 | 14/02/2022 07:33:20 | email approval |
| S5-221560 | 01/02/2022 09:48:57 | approved |
| S5-221569 | 11/02/2022 08:40:28 | noted |
| S5-221571 | 11/02/2022 08:45:14 | noted |
| S5-221578 | 18/02/2022 13:20:15 | agreed |
| S5-221588 | 02/02/2022 07:42:41 | revised |
| S5-221610 | 11/02/2022 08:36:48 | approved |
| S5-221621 | 11/02/2022 08:39:00 | noted |
| S5-221627 | 18/02/2022 13:17:57 | agreed |
| S5-221637 | 08/02/2022 13:36:20 | revised |
| S5-221641 | 01/02/2022 10:03:51 | agreed |
| S5-221645 | 01/02/2022 10:03:57 | approved |
| S5-221648 | 01/02/2022 14:21:11 | agreed |
| S5-221670 | 01/02/2022 10:04:21 | agreed |
| S5-221671 | 01/02/2022 10:04:28 | agreed |
| S5-221675 | 01/02/2022 14:21:13 | approved |
| S5-221711 | 11/02/2022 08:36:57 | agreed |
| S5-221712 | 11/02/2022 08:37:30 | approved |
| S5-221713 | 11/02/2022 08:37:38 | approved |
| S5-221734 | 02/02/2022 07:45:14 | agreed |
| S5-221739 | 08/02/2022 13:36:21 | approved |
| S5-221751 | 15/02/2022 08:09:22 | approved |
| S5-221753 | 11/02/2022 12:10:56 | approved |
| S5-221758 | 18/02/2022 13:18:02 | agreed |
| S5-221759 | 14/02/2022 13:28:27 | approved |
| S5-221761 | 18/02/2022 13:17:33 | withdrawn |
| S5-221764 | 01/02/2022 10:21:15 | agreed |
| S5-221765 | 01/02/2022 10:22:51 | agreed |
| S5-221766 | 11/02/2022 08:37:49 | agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-221074 | Rel-17 CR 28.313 Add information in the PCI configuration notification | Intel | 28.313 | 0045 | - | Rel-17 | B | eSON\_5G | revised |
| S5-221591 | Rel-17 CR 28.313 Add information in the PCI configuration notification | Intel | 28.313 | 0045 | 1 | Rel-17 | B | eSON\_5G | agreed |
| S5-221075 | Rel-17 CR 28.313 Add information in the C-SON notification | Intel | 28.313 | 0046 | - | Rel-17 | B | eSON\_5G | revised |
| S5-221592 | Rel-17 CR 28.313 Add information in the C-SON notification | Intel | 28.313 | 0046 | 1 | Rel-17 | B | eSON\_5G | agreed |
| S5-221756 | MRO additions for CHO and DAPS handover | Ericsson France | 28.313 | 0047 | - | Rel-17 | C | E\_HOO | agreed |
| S5-221044 | Adding VR measurements | Ericsson Limited | 28.404 | 0006 | - | Rel-17 | B | eQoE | agreed |
| S5-221041 | Adding Management Based Activation and Temporary stop and restart during RAN overload in NR | Ericsson Limited | 28.405 | 0005 | - | Rel-17 | B | eQoE | agreed |
| S5-221042 | Adding Signalling Based Activation for NR | Ericsson Limited | 28.405 | 0006 | - | Rel-17 | B | eQoE | revised |
| S5-221557 | Adding Signalling Based Activation for NR | Ericsson Limited | 28.405 | 0006 | 1 | Rel-17 | B | eQoE | not pursued |
| S5-221043 | Handling of QoE measurement collection at handover in NR | Ericsson Limited | 28.405 | 0007 | - | Rel-17 | B | eQoE | not pursued |
| S5-221356 | Update to include NR and adding VR | Ericsson Limited | 28.405 | 0008 | - | Rel-17 | B | eQoE | agreed |
| S5-221275 | Rel-17 CR 28.552 performance measurements for ECS - Service Provisioning | Samsung Electronics Benelux BV | 28.522 | 0006 | - | Rel-17 | B | ECM | revised |
| S5-221639 | Rel-17 CR 28.552 performance measurements for ECS - Service Provisioning | Samsung Electronics Benelux BV | 28.522 | 0006 | 1 | Rel-17 | B | ECM | agreed |
| S5-221151 | Rel-17 CR TS 28.531 Update procedure of reservation and checking feasibility of network slice subnet | Huawei,China Unicom,Deutsche Telekom,China Mobile | 28.531 | 0070 | 3 | Rel-17 | B | eNETSLICE\_PRO | not pursued |
| S5-221152 | Rel-17 CR TS 28.531 Update procedure of network slice subnet instance allocation | Huawei | 28.531 | 0099 | - | Rel-17 | F | eNETSLICE\_PRO | agreed |
| S5-221246 | TS 28.531 Add/Modify procedure of reservation of Network Slice/ Network Slice Subnet | Nokia, Nokia Shanghai Bell | 28.531 | 0100 | - | Rel-17 | B | eNETSLICE\_PRO | not pursued |
| S5-221249 | Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles convert to IOC - Stage 3 | Samsung Electronics Benelux BV | 28.531 | 0101 | - | Rel-17 | F | eNETSLICE\_PRO | not pursued |
| S5-221253 | TS 28.531 Asynchronous network slicing procedures using createMOI | Nokia, Nokia Shanghai Bell | 28.531 | 0102 | - | Rel-17 | B | eNETSLICE\_PRO | not pursued |
| S5-221269 | Rel-17 CR 28.531 Network slice subnet capabilities | Samsung Electronics Benelux BV | 28.531 | 0103 | - | Rel-17 | F | eNETSLICE\_PRO | not pursued |
| S5-221270 | Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles not convert to IOC - Stage 3 | Samsung Electronics Benelux BV | 28.531 | 0104 | - | Rel-17 | F | eNETSLICE\_PRO | revised |
| S5-221710 | Rel-17 CR 28.531 Fixing Network slice and network slice subnet provisioning management service - profiles not convert to IOC - Stage 3 | Samsung Electronics Benelux BV | 28.531 | 0104 | 1 | Rel-17 | F | eNETSLICE\_PRO | agreed |
| S5-221393 | Clarify handling of modified network slice profile | Ericsson GmbH, Eurolab | 28.531 | 0105 | - | Rel-17 | F | eNETSLICE\_PRO | not pursued |
| S5-221040 | Data change notifications YANG-in-Rest format | Ericsson Hungary Ltd | 28.532 | 0194 | - | Rel-17 | C | TEI17 | not pursued |
| S5-221071 | Rel-17 CR 28.532 add object class to FS subscription | Intel | 28.532 | 0195 | - | Rel-17 | B | ECM | not pursued |
| S5-221240 | Rel-17 CR 28.532 Add jobId to FileInfo | Nokia, Nokia Shanghai Bell | 28.532 | 0196 | - | Rel-17 | B | FIMA | revised |
| S5-221622 | Rel-17 CR 28.532 Add jobId to FileInfo | Nokia, Nokia Shanghai Bell | 28.532 | 0196 | 1 | Rel-17 | B | FIMA | agreed |
| S5-221301 | Rel-17 28.532 enhance OpenAPI to support access control | Nokia, Nokia Shanghai Bell | 28.532 | 0197 | - | Rel-17 | B | MSAC | withdrawn |
| S5-221365 | Rel-17 28.532 enhance OpenAPI to support access control | Nokia, Nokia Shanghai Bell | 28.532 | 0198 | - | Rel-17 | B | MSAC | not pursued |
| S5-221091 | Rel-17 CR 28.533 Update on management capability exposure governance | Huawei | 28.533 | 0096 | - | Rel-17 | C | TEI17 | not pursued |
| S5-221092 | Rel-17 CR 28.533 Add EGMF services to support MnS exposure | Huawei | 28.533 | 0097 | - | Rel-17 | C | NETSLICE | withdrawn |
| S5-221165 | CR Rel-17 TS 28.533 Add 5G specification information | Huawei Technologies (Korea) | 28.533 | 0098 | - | Rel-17 | F | TEI17 | revised |
| S5-221503 | CR Rel-17 TS 28.533 Add 5G specification information | Huawei Technologies (Korea) | 28.533 | 0098 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-221222 | Rel-17 CR TS 28.533 Add tenant solution description | Huawei | 28.533 | 0099 | - | Rel-17 | B | eMEMTANE | not pursued |
| S5-221445 | REl 17 CR 28.535 Convert draft CR S5-215622 | Lenovo (Beijing) Ltd | 28.535 | 0064 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-221048 | Editorial on the definition of AssuranceClosedControlLoop | Nokia Germany | 28.536 | 0037 | - | Rel-17 | D | eCOSLA | revised |
| S5-221586 | Editorial on the definition of AssuranceClosedControlLoop | Nokia Germany | 28.536 | 0037 | 1 | Rel-17 | F | eCOSLA | agreed |
| S5-221197 | Fixing the "S" qualifier | Nokia Germany | 28.536 | 0038 | - | Rel-17 | D | eCOSLA | revised |
| S5-221587 | Fixing the "S" qualifier | Nokia Germany | 28.536 | 0038 | 1 | Rel-17 | F | eCOSLA | agreed |
| S5-221383 | Add Annex with code of UML diagrams | Ericsson GmbH, Eurolab, Deutsche Telekom | 28.536 | 0039 | - | Rel-17 | B | eCOSLA | agreed |
| S5-221385 | Update assurance scope data type description | Ericsson GmbH, Eurolab, Deutsche Telekom | 28.536 | 0040 | - | Rel-17 | F | eCOSLA | not pursued |
| S5-221387 | Input to draftCR TS 28.536 clean up stage 2 descriptions | Ericsson GmbH, Eurolab, Deutsche Telekom | 28.536 | 0041 | - | Rel-17 | C | eCOSLA | revised |
| S5-221588 | Input to draftCR TS 28.536 clean up stage 2 descriptions | Ericsson GmbH, Eurolab, Deutsche Telekom | 28.536 | 0041 | 1 | Rel-17 | C | eCOSLA | not pursued |
| S5-221442 | R17 CR 28.536 Add Solution for Pause point | Lenovo, Motorola Mobility | 28.536 | 0042 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-221443 | R17 CR 28.536 Add Solution for Pause point | Lenovo (Beijing) Ltd | 28.536 | 0043 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-221444 | CR 28.536 Add Solution for disabling CL action | Lenovo (Beijing) Ltd | 28.536 | 0044 | - | Rel-17 | B | eCOSLA | not pursued |
| S5-221061 | TS28.540 Update the requirements for management enhancement of network slice and network slice subnet | Nokia, Nokia Shanghai Bell | 28.540 | 0017 | - | Rel-17 | B | EMA5SLA | not pursued |
| S5-221150 | Rel-17 CR TS 28.541 Add feasibility check NRM fragment | Huawei,China Unicom, Deutsche Telekom,China Mobile | 28.541 | 0536 | 3 | Rel-17 | B | eNETSLICE\_PRO | not pursued |
| S5-221161 | Rel-17 CR TS 28.541 Add tenant IOC to support multiple tenant environment | Huawei | 28.541 | 0538 | 3 | Rel-17 | B | eMEMTANE | revised |
| S5-221558 | Rel-17 CR TS 28.541 Add tenant IOC to support multiple tenant environment | Huawei | 28.541 | 0538 | 4 | Rel-17 | B | eMEMTANE | not pursued |
| S5-221382 | Correct maximumDeviationHoTrigger | Ericsson France S.A.S | 28.541 | 0633 | 1 | Rel-17 | C | eSON\_5G | revised |
| S5-221517 | Correct maximumDeviationHoTrigger | Ericsson France S.A.S | 28.541 | 0633 | 2 | Rel-17 | C | eSON\_5G | agreed |
| S5-221029 | Fix stage3 definition for 5G\_DDNMF | CATT | 28.541 | 0641 | - | Rel-17 | F | adNRM | agreed |
| S5-221030 | Rel-17 CR 28.541 Update Figure L.2.1 and accompanying paragraph. | TELEFONICA S.A. | 28.541 | 0642 | - | Rel-17 | F | EMA5SLA | not pursued |
| S5-221031 | YANG corrections | Ericsson Hungary Ltd | 28.541 | 0643 | - | Rel-17 | F | adNRM | agreed |
| S5-221034 | Fixing lists errors in AmfFunction-Single (stage 3) | Nokia Germany | 28.541 | 0644 | - | Rel-17 | F | adNRM | agreed |
| S5-221035 | Rel-17 CR 28.541 Update RANSliceSubnetProfile attributes | TELEFONICA S.A. | 28.541 | 0645 | - | Rel-17 | F | EMA5SLA | revised |
| S5-221531 | Rel-17 CR 28.541 Update RANSliceSubnetProfile attributes | TELEFONICA S.A. | 28.541 | 0645 | 1 | Rel-17 | F | EMA5SLA | agreed |
| S5-221036 | Enhance 5G Core managed NF Profile NRM fragment (Stage 2) | Nokia Germany | 28.541 | 0646 | - | Rel-17 | B | adNRM | not pursued |
| S5-221045 | Enhance 5G Core managed NF Profile NRM fragment (Stage 3) | Nokia Germany | 28.541 | 0647 | - | Rel-17 | B | adNRM | not pursued |
| S5-221060 | Rel-17 network slice isolation | Nokia, Nokia Shanghai Bell | 28.541 | 0648 | - | Rel-17 | B | adNRM | not pursued |
| S5-221072 | Rel-17 CR 28.541 Correct NRM fragment for DMRO Management | Intel | 28.541 | 0649 | - | Rel-17 | F | eSON\_5G | agreed |
| S5-221073 | Rel-17 CR 28.541 Add Stage 2 solutions to support ECM | Intel | 28.541 | 0650 | - | Rel-17 | B | ECM | revised |
| S5-221627 | Rel-17 CR 28.541 Add Stage 2 solutions to support ECM | Intel | 28.541 | 0650 | 1 | Rel-17 | B | ECM | agreed |
| S5-221080 | Rel-17 CR 28.541 Update energy efficiency attribute | Huawei | 28.541 | 0651 | - | Rel-17 | F | EMA5SLA | revised |
| S5-221532 | Rel-17 CR 28.541 Update energy efficiency attribute | Huawei | 28.541 | 0651 | 1 | Rel-17 | F | EMA5SLA | agreed |
| S5-221136 | Rel-17 CR TS 28.541 Alignment on NR NRM for MOCN network sharing | Huawei,Orange,China Mobile,China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | 28.541 | 0652 | - | Rel-17 | F | MANS | revised |
| S5-221599 | Rel-17 CR TS 28.541 Alignment on NR NRM for MOCN network sharing | Huawei,Orange,China Mobile,China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | 28.541 | 0652 | 1 | Rel-17 | F | MANS | agreed |
| S5-221171 | Rel-17 CR TS 28.541 Add administrativeState attribute in OperatorNRCellDU | ZTE Corporation, China Unicom | 28.541 | 0653 | - | Rel-17 | B | MANS | revised |
| S5-221601 | Rel-17 CR TS 28.541 Add administrativeState attribute in OperatorNRCellDU | ZTE Corporation, China Unicom | 28.541 | 0653 | 1 | Rel-17 | B | MANS | agreed |
| S5-221174 | Rel-16 CR TS 28.541 Remove incorrect reference to 22.104 | ZTE Corporation | 28.541 | 0654 | - | Rel-16 | F | eNRM | agreed |
| S5-221175 | Rel-17 CR TS 28.541 Remove incorrect reference to 22.104 | ZTE Corporation | 28.541 | 0655 | - | Rel-17 | A | eNRM | agreed |
| S5-221176 | Rel-16 CR TS 28.541 Change the datatype of RRMPolicyRatio to real | ZTE Corporation, China Mobile, China Telecom | 28.541 | 0656 | - | Rel-16 | F | eNRM | not pursued |
| S5-221178 | Rel-17 CR TS 28.541 Change the datatype of RRMPolicyRatio to real | ZTE Corporation, China Mobile, China Telecom | 28.541 | 0657 | - | Rel-17 | A | eNRM | not pursued |
| S5-221180 | NRM enhacements for SMFFunction | Nokia Germany | 28.541 | 0658 | - | Rel-17 | B | adNRM | revised |
| S5-221555 | NRM enhacements for SMFFunction | Nokia Germany | 28.541 | 0658 | 1 | Rel-17 | B | adNRM | agreed |
| S5-221191 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage2 | Huawei | 28.541 | 0659 | - | Rel-17 | B | eSON\_5G | revised |
| S5-221594 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage2 | Huawei | 28.541 | 0659 | 1 | Rel-17 | B | eSON\_5G | agreed |
| S5-221192 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage3 | Huawei | 28.541 | 0660 | - | Rel-17 | B | eSON\_5G | revised |
| S5-221593 | Rel-17 CR 28.541 Add C-SON CCO NRM model stage3 | Huawei | 28.541 | 0660 | 1 | Rel-17 | B | eSON\_5G | agreed |
| S5-221205 | Rel-17 CR 28.541 Add containment name in IMS SBA nodes | Huawei | 28.541 | 0661 | - | Rel-17 | B | adNRM | not pursued |
| S5-221206 | Rel-17 CR 28.541 Add N70 N71 stage 3 | Huawei | 28.541 | 0662 | - | Rel-17 | B | adNRM | not pursued |
| S5-221207 | Rel17 CR 28.541 CN related informtion in EP\_Transport | Huawei | 28.541 | 0663 | - | Rel-17 | F | adNRM | not pursued |
| S5-221221 | Rel-17 CR 28,541 Update SericeProfile and SliceProfile | Huawei | 28.541 | 0664 | - | Rel-17 | B | eMEMTANE | not pursued |
| S5-221252 | Rel-17 CR 28.541 Converting ServiceProfile and SliceProfile to IOC | Samsung Electronics Benelux BV | 28.541 | 0665 | - | Rel-17 | F | eNETSLICE\_PRO | not pursued |
| S5-221254 | TS 28.541 Clean up of eMA5SLA | CMCC | 28.541 | 0666 | - | Rel-17 | F | EMA5SLA | revised |
| S5-221533 | TS 28.541 Clean up of eMA5SLA | CMCC | 28.541 | 0666 | 1 | Rel-17 | F | EMA5SLA | agreed |
| S5-221255 | TS 28.541 Update 5G NRM to solve CR clash in Figure 5.2.1.2 | CMCC,CATT | 28.541 | 0667 | - | Rel-17 | F | adNRM | agreed |
| S5-221262 | Rel-16 CR 28.541 Network slice subnet capability IOC | Samsung Electronics Benelux BV | 28.541 | 0668 | - | Rel-17 | F | eNETSLICE\_PRO | not pursued |
| S5-221268 | Add S-NSSAI mapping to support National Roaming | Ericsson India Private Limited (TSDSI) | 28.541 | 0669 | - | Rel-17 | B | eMA5SLA | not pursued |
| S5-221284 | NRM enhancements for the SMFFunction (stage 3) | Nokia Germany | 28.541 | 0670 | - | Rel-17 | B | adNRM | revised |
| S5-221556 | NRM enhancements for the SMFFunction (stage 3) | Nokia Germany | 28.541 | 0670 | 1 | Rel-17 | B | adNRM | agreed |
| S5-221374 | Rel-17 CR 28.541 Update maximumDeviationHoTrigger | Ericsson France S.A.S | 28.541 | 0671 | - | Rel-17 | C | SON\_5G | withdrawn |
| S5-221390 | Correct YANG Network Slice NRM solution set reference | Ericsson LM | 28.541 | 0672 | - | Rel-17 | F | eNETSLICE\_PRO | agreed |
| S5-221394 | Add network slice job class to NRM discussion | Ericsson GmbH, Eurolab | 28.541 | 0673 | - | Rel-17 | B | eNETSLICE\_PRO | not pursued |
| S5-221399 | Update 5GC NRM for 5G\_DDNMF | CATT | 28.541 | 0674 | - | Rel-17 | F | adNRM | revised |
| S5-221516 | Update 5GC NRM for 5G\_DDNMF | CATT | 28.541 | 0674 | 1 | Rel-17 | F | adNRM | agreed |
| S5-221417 | TS 28.541 Rel-17 CR TS 28.541 Add Reservation check NRM fragment | Nokia, Nokia Shanghai Bell | 28.541 | 0675 | - | Rel-17 | B | eNETSLICE\_PRO | not pursued |
| S5-221418 | Rel-17 CR TS 28.541 Asynchronous Network Slice provisioning using createMOI | Nokia, Nokia Shanghai Bell | 28.541 | 0676 | - | Rel-17 | B | eNETSLICE\_PRO | withdrawn |
| S5-221488 | Correct YANG mapping in TS document | Ericsson Hungary Ltd | 28.541 | 0677 | - | Rel-16 | F | eNRM | agreed |
| S5-221489 | Correct YANG mapping in TS document | Ericsson Hungary Ltd | 28.541 | 0678 | - | Rel-17 | A | eNRM | agreed |
| S5-221566 | TS 28.541 Correct NR YAML in TS document | Huawei | 28.541 | 0679 | - | Rel-17 | F | adNRM | agreed |
| S5-221567 | TS 28.541 Correct 5GC YAML in TS document | Huawei | 28.541 | 0680 | - | Rel-17 | F | adNRM | agreed |
| S5-221568 | TS 28.541 Correct NetworkSlicing YAML in TS document | Huawei | 28.541 | 0681 | - | Rel-17 | F | adNRM | agreed |
| S5-221578 | Rel-17 CR 28.541 Add Stage 3 solutions to support ECM | Intel | 28.541 | 0682 | - | Rel-17 | B | ECM | agreed |
| S5-221058 | Add Space Division Multiplexing PRB Usage for MIMO cell | CMCC, Huawei, ZTE | 28.552 | 0341 | - | Rel-17 | B | ePM\_KPI\_5G | revised |
| S5-221538 | Add Space Division Multiplexing PRB Usage for MIMO cell | CMCC, Huawei, ZTE | 28.552 | 0341 | 1 | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221177 | Rel-17 CR TS 28.552 Remove the number of failed conditional handover executions which is not implementable | China Telecom Corporation Ltd., ZTE | 28.552 | 0342 | - | Rel-17 | F | ePM\_KPI\_5G | agreed |
| S5-221193 | Rel-17 CR TS 28.552 Add one more trigger point to the Number of failed DAPS handover preparations performance measurement | China Telecom Corporation Ltd., ZTE | 28.552 | 0343 | - | Rel-17 | F | ePM\_KPI\_5G | agreed |
| S5-221236 | Rel-17 CR TS 28.552 Modify description of MIMO PRB usage for cell | China Unicom | 28.552 | 0344 | - | Rel-17 | F | ePM\_KPI\_5G | revised |
| S5-221539 | Rel-17 CR TS 28.552 Modify description of MIMO PRB usage for cell | China Unicom | 28.552 | 0344 | 1 | Rel-17 | F | ePM\_KPI\_5G | agreed |
| S5-221237 | Rel-17 CR TS 28.552 Modify description of sampling occasion for scheduled layers | China Unicom | 28.552 | 0345 | - | Rel-17 | F | ePM\_KPI\_5G | revised |
| S5-221540 | Rel-17 CR TS 28.552 Modify description of sampling occasion for scheduled layers | China Unicom | 28.552 | 0345 | 1 | Rel-17 | F | ePM\_KPI\_5G | agreed |
| S5-221257 | S5-xxxxxx Rel-17 CR TS 28.552 Adding new packets based performance measurements | Harman GmbH | 28.552 | 0346 | - | Rel-17 | B | ePM\_KPI\_5G | withdrawn |
| S5-221264 | S5-xxxxxx Rel-17 CR TS 28.552 Updating packets based performance measurements | Harman GmbH | 28.552 | 0347 | - | Rel-17 | B | ePM\_KPI\_5G | withdrawn |
| S5-221272 | Rel-17 CR 28.552 performance measurements for ECS - EES Registration | Samsung Electronics Benelux BV | 28.552 | 0348 | - | Rel-17 | B | ECM | revised |
| S5-221638 | Rel-17 CR 28.552 performance measurements for ECS - EES Registration | Samsung Electronics Benelux BV | 28.552 | 0348 | 1 | Rel-17 | B | ECM | agreed |
| S5-221276 | Rel-17 CR 28.552 performance measurements for EES - EAS Discovery | Samsung Electronics Benelux BV | 28.552 | 0349 | - | Rel-17 | B | ECM | revised |
| S5-221705 | Rel-17 CR 28.552 performance measurements for EES - EAS Discovery | Samsung Electronics Benelux BV | 28.552 | 0349 | 1 | Rel-17 | B | ECM | agreed |
| S5-221278 | Rel-17 CR 28.552 performance measurements for EES - EEC Registration | Samsung Electronics Benelux BV | 28.552 | 0350 | - | Rel-17 | B | ECM | revised |
| S5-221706 | Rel-17 CR 28.552 performance measurements for EES - EEC Registration | Samsung Electronics Benelux BV | 28.552 | 0350 | 1 | Rel-17 | B | ECM | agreed |
| S5-221279 | Rel-17 CR 28.552 performance measurements for EES - EAS Registration | Samsung Electronics Benelux BV | 28.552 | 0351 | - | Rel-17 | B | ECM | revised |
| S5-221707 | Rel-17 CR 28.552 performance measurements for EES - EAS Registration | Samsung Electronics Benelux BV | 28.552 | 0351 | 1 | Rel-17 | B | ECM | agreed |
| S5-221342 | CR Rel-17 28.552 Add measurements to support coverage problem analysis for MDA | Intel | 28.552 | 0352 | - | Rel-17 | B | eMDAS | revised |
| S5-221608 | CR Rel-17 28.552 Add measurements to support coverage problem analysis for MDA | Intel | 28.552 | 0352 | 1 | Rel-17 | B | eMDAS | agreed |
| S5-221344 | CR Rel-17 28.552 Add measurements related to location context transfer for LMF | Intel | 28.552 | 0353 | - | Rel-17 | B | ePM\_KPI\_5G | revised |
| S5-221543 | CR Rel-17 28.552 Add measurements related to location context transfer for LMF | Intel | 28.552 | 0353 | 1 | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221346 | CR Rel-17 28.552 Add measurements related to location determination for LMF | Intel | 28.552 | 0354 | - | Rel-17 | B | ePM\_KPI\_5G | revised |
| S5-221544 | CR Rel-17 28.552 Add measurements related to location determination for LMF | Intel | 28.552 | 0354 | 1 | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221375 | Rel-16 CR 28.552 Correct wording and header | Ericsson France S.A.S | 28.552 | 0355 | - | Rel-16 | F | 5G\_SLICE\_ePA | agreed |
| S5-221376 | Rel-17 CR 28.552 Correct wording and header | Ericsson France S.A.S | 28.552 | 0356 | - | Rel-17 | A | 5G\_SLICE\_ePA | agreed |
| S5-221377 | Rel-17 CR 28.552 Conditional handover measurements | Ericsson France S.A.S | 28.552 | 0357 | - | Rel-17 | B | E\_HOO | revised |
| S5-221595 | Rel-17 CR 28.552 Conditional handover measurements | Ericsson France S.A.S | 28.552 | 0357 | 1 | Rel-17 | B | E\_HOO | agreed |
| S5-221413 | Rel-17 CR 28.552 Enhance PM on Handover failures per beam related to MRO for intra-system mobility | Nokia, Nokia Shanghai Bell | 28.552 | 0358 | - | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221414 | Rel-17 CR 28.552 Add PM on Angle of Arrival | Nokia, Nokia Shanghai Bell | 28.552 | 0359 | - | Rel-17 | B | ePM\_KPI\_5G | not pursued |
| S5-221450 | Rel-17 CR TS 28.552 Adding new packets based performance measurements | Harman GmbH | 28.552 | 0360 | - | Rel-17 | B | ePM\_KPI\_5G | revised |
| S5-221545 | Rel-17 CR TS 28.552 Adding new packets based performance measurements | Harman GmbH | 28.552 | 0360 | 1 | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221451 | Rel-17 CR TS 28.552 Updating packets based performance measurements | Harman GmbH | 28.552 | 0361 | - | Rel-17 | B | ePM\_KPI\_5G | revised |
| S5-221541 | Rel-17 CR TS 28.552 Updating packets based performance measurements | Harman GmbH | 28.552 | 0361 | 1 | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221452 | Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network | Harman GmbH | 28.552 | 0362 | - | Rel-17 | B | ePM\_KPI\_5G | not pursued |
| S5-221266 | S5-xxxxxx Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network | Harman GmbH | 28.554 | 0089 | - | Rel-17 | B | ePM\_KPI\_5G | withdrawn |
| S5-221340 | Editorial clean up of mobilty KPIs HO success rate | Ericsson Limited | 28.554 | 0090 | - | Rel-16 | F | TEI16 | agreed |
| S5-221345 | Editorial clean up of mobilty KPIs HO success rate | Ericsson Limited | 28.554 | 0091 | - | Rel-17 | A | E\_HOO | agreed |
| S5-221378 | Rel-17 CR 28.554 Add KPI for HO success rate for all handover types | Ericsson France S.A.S | 28.554 | 0092 | - | Rel-17 | B | E\_HOO | revised |
| S5-221596 | Rel-17 CR 28.554 Add KPI for HO success rate for all handover types | Ericsson France S.A.S | 28.554 | 0092 | 1 | Rel-17 | B | E\_HOO | agreed |
| S5-221542 | Rel-17 CR TS 28.554 Define Reliability KPI in 5G Network | Harman GmbH | 28.554 | 0093 | - | Rel-17 | B | ePM\_KPI\_5G | agreed |
| S5-221274 | Rel-16 CR 28.622 Add missing definitions of common data types | Nokia, Nokia Shanghai Bell | 28.622 | 0107 | 3 | Rel-16 | F | eNRM | not pursued |
| S5-221160 | Rel-17 CR TS 28.622 Add condition information for threshold monitoring | Huawei | 28.622 | 0119 | 2 | Rel-17 | B | adNRM | not pursued |
| S5-221023 | Asynchronous operation NRM additions | Ericsson Hungary Ltd | 28.622 | 0126 | - | Rel-17 | C | adNRM | revised |
| S5-221549 | Asynchronous operation NRM additions | Ericsson Hungary Ltd,Nokia | 28.622 | 0126 | 1 | Rel-17 | C | adNRM | agreed |
| S5-221026 | Alarm Record changes | Ericsson Hungary Ltd | 28.622 | 0127 | - | Rel-17 | A | eNRM | revised |
| S5-221521 | Alarm Record changes | Ericsson Hungary Ltd | 28.622 | 0127 | 1 | Rel-17 | A | eNRM | agreed |
| S5-221027 | Notification Subscription changes | Ericsson Hungary Ltd | 28.622 | 0128 | - | Rel-17 | A | eNRM | revised |
| S5-221519 | Notification Subscription changes | Ericsson Hungary Ltd | 28.622 | 0128 | 1 | Rel-17 | A | eNRM | agreed |
| S5-221064 | Notification Subscription changes | Ericsson Hungary Ltd | 28.622 | 0129 | - | Rel-16 | F | eNRM | revised |
| S5-221518 | Notification Subscription changes | Ericsson Hungary Ltd | 28.622 | 0129 | 1 | Rel-16 | F | eNRM | agreed |
| S5-221065 | Alarm Record changes | Ericsson Hungary Ltd | 28.622 | 0130 | - | Rel-16 | F | eNRM | revised |
| S5-221520 | Alarm Record changes | Ericsson Hungary Ltd | 28.622 | 0130 | 1 | Rel-16 | F | eNRM | agreed |
| S5-221076 | CR Rel-17 28.622 Enhance NRM with geographical information supporting MDA | Intel | 28.622 | 0131 | - | Rel-17 | B | eMDAS | revised |
| S5-221604 | CR Rel-17 28.622 Enhance NRM with geographical information supporting MDA | Intel | 28.622 | 0131 | 1 | Rel-17 | B | eMDAS | agreed |
| S5-221164 | CR TS 28.622 Add description of the corresponding IOCs | Huawei Technologies (Korea) | 28.622 | 0132 | - | Rel-17 | F | NSA\_SBMA | not pursued |
| S5-221209 | Rel-17 CR 28.622 Add support for discovery of managed entities | Huawei | 28.622 | 0133 | - | Rel-17 | B | 5GDMS | revised |
| S5-221597 | Rel-17 CR 28.622 Add support for discovery of managed entities | Huawei | 28.622 | 0133 | 1 | Rel-17 | B | 5GDMS | agreed |
| S5-221296 | Rel-17 CR 28.622 Add attribute to configure an identifier of a TraceJob | Nokia, Nokia Shanghai Bell | 28.622 | 0134 | - | Rel-17 | B | FIMA | revised |
| S5-221623 | Rel-17 CR 28.622 Add attribute to configure an identifier of a TraceJob | Nokia, Nokia Shanghai Bell | 28.622 | 0134 | 1 | Rel-17 | B | FIMA | agreed |
| S5-221297 | Rel-17 28.622 enhance NRM to support access control | Nokia, Nokia Shanghai Bell | 28.622 | 0135 | - | Rel-17 | B | MSAC | not pursued |
| S5-221328 | Correct YANG Network Slice NRM solution set reference | Ericsson LM | 28.622 | 0136 | - | Rel-17 | F | eNETSLICE\_PRO | withdrawn |
| S5-221331 | Add QMC job | Ericsson LM | 28.622 | 0137 | - | Rel-17 | B | eQoE | withdrawn |
| S5-221402 | Rel-17 CR 28.622 Add data type to enable operations such as threshold monitoring or data collection according to a schedule | Nokia, Nokia Shanghai Bell | 28.622 | 0138 | - | Rel-17 | B | adNRM | not pursued |
| S5-221403 | Rel-16 CR 28.622 Structuring of TraceJob IOC and Clean Up | Nokia, Nokia Shanghai Bell | 28.622 | 0139 | - | Rel-16 | F | 5GMDT | not pursued |
| S5-221404 | Rel-17 CR 28.622 Structuring of TraceJob IOC and Clean Up | Nokia, Nokia Shanghai Bell | 28.622 | 0140 | - | Rel-17 | A | 5GMDT | not pursued |
| S5-221406 | Rel-17 CR 28.622 Add parameter to configure beam level measurements in NR MDT | Nokia, Nokia Shanghai Bell | 28.622 | 0141 | - | Rel-17 | B | e\_5GMDT | agreed |
| S5-221415 | Adding QMC job | Ericsson Limited | 28.622 | 0142 | - | Rel-17 | B | eQoE | not pursued |
| S5-221428 | Rel-17 CR 28.623 Add data type to enable operations such as threshold monitoring or data collection according to a schedule | Nokia, Nokia Shanghai Bell | 28.622 | 0143 | - | Rel-17 | B | adNRM | not pursued |
| S5-221760 | CR 28.622 Add stage2 definition for file management | Nokia | 28.622 | 0147 | - | Rel-17 | B | FIMA | agreed |
| S5-221024 | Asynchronous operation NRM additions - YANG Stage 3 | Ericsson Hungary Ltd | 28.623 | 0144 | - | Rel-17 | C | adNRM | revised |
| S5-221550 | Asynchronous operation NRM additions - YANG Stage 3 | Ericsson Hungary Ltd | 28.623 | 0144 | 1 | Rel-17 | C | adNRM | agreed |
| S5-221032 | Rel-16 CR 28.623 Structuring of TraceJob IOC and Clean up | Nokia, Nokia Shanghai Bell | 28.623 | 0145 | - | Rel-16 | F | 5GMDT | not pursued |
| S5-221077 | CR Rel-17 28.623 Enhance NRM with geographical information supporting MDA | Intel | 28.623 | 0146 | - | Rel-17 | B | eMDAS | revised |
| S5-221605 | CR Rel-17 28.623 Enhance NRM with geographical information supporting MDA | Intel | 28.623 | 0146 | 1 | Rel-17 | B | eMDAS | agreed |
| S5-221210 | Rel-17 CR 28.623 Add support for discovery of managed entities | Huawei | 28.623 | 0147 | - | Rel-17 | B | 5GDMS | revised |
| S5-221598 | Rel-17 CR 28.623 Add support for discovery of managed entities | Huawei | 28.623 | 0147 | 1 | Rel-17 | B | 5GDMS | agreed |
| S5-221247 | Rel-17 CR 28.623 Add file retrieval NRM fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0148 | - | Rel-17 | B | FIMA | agreed |
| S5-221248 | Rel-17 CR 28.623 Add file download NRM fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0149 | - | Rel-17 | B | FIMA | revised |
| S5-221758 | Rel-17 CR 28.623 Add file download NRM fragment (OpenAPI definitions) | Nokia, Nokia Shanghai Bell | 28.623 | 0149 | 1 | Rel-17 | B | FIMA | agreed |
| S5-221298 | Rel-17 28.623 enhance NRM to support access control (stage3) | Nokia, Nokia Shanghai Bell | 28.623 | 0150 | - | Rel-17 | B | MSAC | not pursued |
| S5-221392 | Add QMC job, stage 3 YANG module | Ericsson LM | 28.623 | 0151 | - | Rel-17 | B | eQoE | not pursued |
| S5-221405 | Rel-17 CR 28.623 Structuring of TraceJob IOC and Clean Up | Nokia, Nokia Shanghai Bell | 28.623 | 0152 | - | Rel-17 | A | 5GMDT | not pursued |
| S5-221407 | Rel-17 CR 28.623 Add parameter to configure beam level measurements in NR MDT | Nokia, Nokia Shanghai Bell | 28.623 | 0153 | - | Rel-17 | B | e\_5GMDT | agreed |
| S5-221408 | Rel-17 CR 28.623 Add attribute to configure an identifier of a TraceJob | Nokia, Nokia Shanghai Bell | 28.623 | 0154 | - | Rel-17 | B | FIMA | agreed |
| S5-221233 | Update Inventory stage2 to support SBMA | Ericsson Hungary Ltd | 28.632 | 0005 | 1 | Rel-17 | B | NSA\_SBMA | not pursued |
| S5-221256 | YANG Solution Set for Inventory Management | Ericsson Hungary Ltd | 28.633 | 0009 | 2 | Rel-17 | B | NSA\_SBMA | not pursued |
| S5-221155 | Rel-15 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA | Huawei | 28.658 | 0058 | 2 | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-221156 | Rel-16 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA | Huawei | 28.658 | 0059 | 2 | Rel-16 | A | NETSLICE-5GNRM | not pursued |
| S5-221157 | Rel-17 CR TS 28.658 Update EUTRAN NRM to be applicable for SBMA | Huawei | 28.658 | 0060 | - | Rel-17 | A | NETSLICE-5GNRM | not pursued |
| S5-221162 | Rel-17 CR TS 28.659 Provide YAML solution set for EUTRAN NRM | Huawei | 28.659 | 0039 | 2 | Rel-17 | B | NSA\_SBMA | not pursued |
| S5-221158 | Rel-15 CR TS 28.662 Update Generic RAN NRM to be applicable for SBMA | Huawei | 28.662 | 0012 | 2 | Rel-15 | F | NETSLICE-5GNRM | not pursued |
| S5-221159 | Rel-16 CR TS 28.662 Update Generic RAN NRM to be applicable for SBMA | Huawei | 28.662 | 0013 | 2 | Rel-16 | A | NETSLICE-5GNRM | not pursued |
| S5-221163 | Rel-17 CR TS 28.663 Provide YAML solution set for RAN NRM | Huawei | 28.663 | 0021 | 2 | Rel-17 | B | NSA\_SBMA | not pursued |
| S5-221416 | YANG Solution Set for Generic Radio Access Network NRM | Ericsson Hungary Ltd | 28.663 | 0022 | 2 | Rel-17 | B | NSA\_SBMA | not pursued |
| S5-221167 | CR Rel-16 TS 32.103 Remove 5G specification information | Huawei Technologies (Korea) | 32.103 | 0033 | - | Rel-16 | F | TEI16 | revised |
| S5-221504 | CR Rel-16 TS 32.103 Remove 5G specification information | Huawei Technologies (Korea) | 32.103 | 0033 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-221137 | Rel-17 CR TS 32.130 Clean up on concept and business level requirements | Huawei, China Unicom,China Telecom | 32.130 | 0017 | - | Rel-17 | F | MANS | agreed |
| S5-221138 | Rel-17 CR TS 32.130 Add missing use case and requirements for radio resources partitioning between POPs | Huawei, China Unicom,China Telecom | 32.130 | 0018 | - | Rel-17 | B | MANS | agreed |
| S5-221139 | Rel-17 CR TS 32.130 Add solution description for the requirements for the management of the shared NG-RAN NE(s) in MOCN network sharing scenario | Huawei,Orange,China Mobile, China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | 32.130 | 0019 | - | Rel-17 | B | MANS | revised |
| S5-221600 | Rel-17 CR TS 32.130 Add solution description for the requirements for the management of the shared NG-RAN NE(s) in MOCN network sharing scenario | Huawei,Orange,China Mobile, China Unicom,China Telecom, Deutsche Telekom,Ericsson,Telefonica | 32.130 | 0019 | 1 | Rel-17 | B | MANS | agreed |
| S5-221169 | Rel-17 CR TS 32.130 Add administrative management capability requirements | ZTE Corporation, China Unicom | 32.130 | 0020 | - | Rel-17 | B | MANS | agreed |
| S5-221019 | Deprecating attributes and IOC | Ericsson Hungary Ltd | 32.156 | 0038 | - | Rel-17 | B | TEI17 | not pursued |
| S5-221025 | Specifying multivalue attributes | Ericsson Hungary Ltd | 32.156 | 0039 | - | Rel-16 | F | eNRM | revised |
| S5-221522 | Specifying multivalue attributes | Ericsson Hungary Ltd | 32.156 | 0039 | 1 | Rel-16 | F | eNRM | agreed |
| S5-221496 | Rel-17 CR TS 32.256 Clarify definition of AllowedValues | Ericsson | 32.156 | 0040 | - | Rel-17 | F | TEI17 | agreed |
| S5-221021 | Add lifecycle-status for attributes, data types and IOCs | Ericsson Hungary Ltd | 32.160 | 0026 | - | Rel-17 | B | TEI17 | not pursued |
| S5-221020 | Rel-16 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | 32.240 | 0435 | - | Rel-16 | F | 5GS\_NSMCH | revised |
| S5-221677 | Rel-16 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | 32.240 | 0435 | 1 | Rel-16 | F | 5GS\_NSMCH | agreed |
| S5-221028 | Rel-17 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | 32.240 | 0436 | - | Rel-17 | A | 5GS\_NSMCH | revised |
| S5-221678 | Rel-17 CR 32.240 Correction on charging architecture for management domain | Nokia, MATRIXX Software | 32.240 | 0436 | 1 | Rel-17 | A | 5GS\_NSMCH | agreed |
| S5-221098 | Rel-17 CR 32.240 Addition of the 5G LAN-type service Description | Huawei | 32.240 | 0437 | - | Rel-17 | B | 5GLAN\_CH | revised |
| S5-221689 | Rel-17 CR 32.240 Addition of the 5G LAN-type service Description | Huawei | 32.240 | 0437 | 1 | Rel-17 | B | 5GLAN\_CH | agreed |
| S5-221099 | Rel-17 CR 32.240 Addition of the 5G VN group management Charging | Huawei | 32.240 | 0438 | - | Rel-17 | B | 5GLAN\_CH | not pursued |
| S5-221671 | Rel-17 CR TS 32.240 Charging architecture for Local Breakout | Vodafone | 32.240 | 0439 | - | Rel-17 | B | DUMMY | agreed |
| S5-221100 | Rel-17 CR 32.255 Clarification on the 5G LAN type service charging | Huawei | 32.255 | 0354 | - | Rel-17 | B | 5GLAN\_CH | revised |
| S5-221724 | Rel-17 CR 32.255 Clarification on the 5G LAN type service charging | Huawei | 32.255 | 0354 | 1 | Rel-17 | B | 5GLAN\_CH | agreed |
| S5-221101 | Rel-17 CR 32.255 Additional charging information for the 5G LAN charging | Huawei | 32.255 | 0355 | - | Rel-17 | B | 5GLAN\_CH | revised |
| S5-221728 | Rel-17 CR 32.255 Additional charging information for the 5G LAN charging | Huawei | 32.255 | 0355 | 1 | Rel-17 | B | 5GLAN\_CH | agreed |
| S5-221104 | Rel-16 CR 32.255 Correction on the UPF Id used for QBC | Huawei | 32.255 | 0356 | - | Rel-16 | F | TEI16,5GS\_Ph1-DCH | not pursued |
| S5-221105 | Rel-17 CR 32.255 Correction on the UPF Id used for QBC | Huawei | 32.255 | 0357 | - | Rel-17 | A | TEI16,5GS\_Ph1-DCH | not pursued |
| S5-221110 | Rel-16 CR 32.255 Correction on the Charging Identifier Uniqueness | Huawei | 32.255 | 0358 | - | Rel-16 | F | 5GIEPC\_CH | not pursued |
| S5-221111 | Rel-17 CR 32.255 Correction on the Charging Identifier Uniqueness | Huawei | 32.255 | 0359 | - | Rel-17 | A | 5GIEPC\_CH | not pursued |
| S5-221116 | Rel-17 CR 32.255 Additional Supported fields for the QoS Mornitoring Report | Huawei | 32.255 | 0360 | - | Rel-17 | F | 5GIEPC\_CH | merged |
| S5-221125 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in charging procedure | Huawei | 32.255 | 0361 | - | Rel-17 | B | 5G\_CIoT\_CH | revised |
| S5-221664 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in charging procedure | Huawei | 32.255 | 0361 | 1 | Rel-17 | B | 5G\_CIoT\_CH | agreed |
| S5-221126 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in EPC interworking procedure | Huawei | 32.255 | 0362 | - | Rel-17 | B | 5G\_CIoT\_CH | revised |
| S5-221665 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in EPC interworking procedure | Huawei | 32.255 | 0362 | 1 | Rel-17 | B | 5G\_CIoT\_CH | agreed |
| S5-221127 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in home-routed roaming procedure | Huawei | 32.255 | 0363 | - | Rel-17 | B | 5G\_CIoT\_CH | revised |
| S5-221666 | Rel-17 CR 32.255 Add charging enhancements of 5GS CIoT in home-routed roaming procedure | Huawei | 32.255 | 0363 | 1 | Rel-17 | B | 5G\_CIoT\_CH | agreed |
| S5-221128 | Rel-17 CR 32.255 Add charging information of 5GS CIoT | Huawei | 32.255 | 0364 | - | Rel-17 | B | 5G\_CIoT\_CH | revised |
| S5-221667 | Rel-17 CR 32.255 Add charging information of 5GS CIoT | Huawei | 32.255 | 0364 | 1 | Rel-17 | B | 5G\_CIoT\_CH | agreed |
| S5-221129 | Rel-17 CR 32.255 Add charging requirements of 5GS CIoT | Huawei | 32.255 | 0365 | - | Rel-17 | B | 5G\_CIoT\_CH | revised |
| S5-221668 | Rel-17 CR 32.255 Add charging requirements of 5GS CIoT | Huawei | 32.255 | 0365 | 1 | Rel-17 | B | 5G\_CIoT\_CH | agreed |
| S5-221232 | Rel-17 CR 32.255 Introduction of Annex on Network Slice charging | MATRIXX Software | 32.255 | 0366 | - | Rel-17 | B | DUMMY | revised |
| S5-221674 | Rel-17 CR 32.255 Introduction of Annex on Network Slice charging | MATRIXX Software | 32.255 | 0366 | 1 | Rel-17 | B | DUMMY | agreed |
| S5-221308 | Rel-17 CR 32.255 Correcting charging rule base name | Ericsson LM | 32.255 | 0367 | - | Rel-17 | F | TEI17 | revised |
| S5-221685 | Rel-17 CR 32.255 Correcting charging rule base name | Ericsson LM | 32.255 | 0367 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-221349 | CR Rel-17 32.255 Add charging information for 5GS usage for Edge Computing | Intel | 32.255 | 0368 | - | Rel-17 | B | EDGE\_CH | revised |
| S5-221720 | CR Rel-17 32.255 Add charging information for 5GS usage for Edge Computing | Intel | 32.255 | 0368 | 1 | Rel-17 | B | EDGE\_CH | agreed |
| S5-221447 | Rel-17 CR 32.255 Add charging requirement to support NR RedCap | China Mobile Com. Corporation | 32.255 | 0369 | - | Rel-17 | B | ARCH\_NR\_REDCAP | revised |
| S5-221721 | Rel-17 CR 32.255 Add charging requirement to support NR RedCap | China Mobile Com. Corporation | 32.255 | 0369 | 1 | Rel-17 | B | ARCH\_NR\_REDCAP | agreed |
| S5-221395 | Update high level ProSe architecture | CATT | 32.277 | 0035 | - | Rel-17 | F | 5G\_ProSe | revised |
| S5-221676 | Update high level ProSe architecture | CATT | 32.277 | 0035 | 1 | Rel-17 | F | 5G\_ProSe | agreed |
| S5-221396 | Update general charging principles for 5G ProSe | CATT | 32.277 | 0036 | - | Rel-17 | B | 5G\_ProSe | revised |
| S5-221662 | Update general charging principles for 5G ProSe | CATT | 32.277 | 0036 | 1 | Rel-17 | B | 5G\_ProSe | agreed |
| S5-221397 | Adding basic principles for 5G ProSe convergent charging | CATT | 32.277 | 0037 | - | Rel-17 | B | 5G\_ProSe | revised |
| S5-221652 | Adding basic principles for 5G ProSe convergent charging | CATT | 32.277 | 0037 | 1 | Rel-17 | B | 5G\_ProSe | agreed |
| S5-221398 | Adding message flows for 5G ProSe Direct Discovery converged charging | CATT | 32.277 | 0038 | - | Rel-17 | B | 5G\_ProSe | revised |
| S5-221653 | Adding message flows for 5G ProSe Direct Discovery converged charging | CATT | 32.277 | 0038 | 1 | Rel-17 | B | 5G\_ProSe | agreed |
| S5-221102 | Rel-17 CR 32.291 Additional charging information for the 5G LAN communication | Huawei | 32.291 | 0360 | - | Rel-17 | B | 5GLAN\_CH | revised |
| S5-221725 | Rel-17 CR 32.291 Additional charging information for the 5G LAN communication | Huawei | 32.291 | 0360 | 1 | Rel-17 | B | 5GLAN\_CH | agreed |
| S5-221106 | Rel-16 CR 32.291 Correction on the UPF Id used for QBC | Huawei | 32.291 | 0361 | - | Rel-16 | F | TEI16,5GS\_Ph1-DCH | not pursued |
| S5-221107 | Rel-17 CR 32.291 Correction on the UPF Id used for QBC | Huawei | 32.291 | 0362 | - | Rel-17 | A | TEI16,5GS\_Ph1-DCH | not pursued |
| S5-221112 | Rel-16 CR 32.291 Correction on the Charging Identifier Uniqueness | Huawei | 32.291 | 0363 | - | Rel-16 | F | 5GIEPC\_CH | not pursued |
| S5-221113 | Rel-17 CR 32.291 Correction on the Charging Identifier Uniqueness | Huawei | 32.291 | 0364 | - | Rel-17 | A | 5GIEPC\_CH | not pursued |
| S5-221117 | Rel-17 CR 32.291 Addition of the Supported Feature for URLLC | Huawei | 32.291 | 0365 | - | Rel-17 | F | 5G\_URLLC | agreed |
| S5-221118 | Rel-16 CR 32.291 Extensibility Mechanisms for charging | Huawei | 32.291 | 0366 | - | Rel-16 | F | TEI16 | revised |
| S5-221730 | Rel-16 CR 32.291 Extensibility Mechanisms for charging | Huawei | 32.291 | 0366 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-221119 | Rel-17 CR 32.291 Extensibility Mechanisms for charging | Huawei | 32.291 | 0367 | - | Rel-17 | A | TEI16 | revised |
| S5-221731 | Rel-17 CR 32.291 Extensibility Mechanisms for charging | Huawei | 32.291 | 0367 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-221130 | Rel-17 CR TS 32.291 Add charging information of 5GS CIoT | Huawei | 32.291 | 0368 | - | Rel-17 | B | 5G\_CIoT\_CH | revised |
| S5-221669 | Rel-17 CR TS 32.291 Add charging information of 5GS CIoT | Huawei | 32.291 | 0368 | 1 | Rel-17 | B | 5G\_CIoT\_CH | agreed |
| S5-221304 | Rel-17 CR 32.291 Correcting response code 2xx | Ericsson LM | 32.291 | 0369 | - | Rel-17 | F | TEI17 | revised |
| S5-221683 | Rel-17 CR 32.291 Correcting response code 2xx | Ericsson LM | 32.291 | 0369 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-221305 | Rel-17 CR 32.291 Correcting response code 3xx | Ericsson LM | 32.291 | 0370 | - | Rel-17 | F | TEI17 | not pursued |
| S5-221306 | Rel-17 CR 32.291 Correcting response code 4xx | Ericsson LM | 32.291 | 0371 | - | Rel-17 | F | TEI17 | revised |
| S5-221684 | Rel-17 CR 32.291 Correcting response code 4xx | Ericsson LM | 32.291 | 0371 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-221307 | Rel-17 CR 32.291 Correcting response code 5xx | Ericsson LM | 32.291 | 0372 | - | Rel-17 | F | TEI17 | not pursued |
| S5-221309 | Rel-16 CR 32.291 Correcting quota management suspended | Ericsson LM | 32.291 | 0373 | - | Rel-16 | F | CHFCQM | agreed |
| S5-221310 | Rel-17 CR 32.291 Correcting quota management suspended | Ericsson LM | 32.291 | 0374 | - | Rel-17 | A | CHFCQM | agreed |
| S5-221311 | Rel-17 CR 32.291 Addition of IMS converged charging yaml | Ericsson LM | 32.291 | 0375 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-221649 | Rel-17 CR 32.291 Addition of IMS converged charging yaml | Ericsson LM | 32.291 | 0375 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-221313 | Rel-17 CR 32.291 Addition of MMTel converged charging yaml | Ericsson LM | 32.291 | 0376 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-221650 | Rel-17 CR 32.291 Addition of MMTel converged charging yaml | Ericsson LM | 32.291 | 0376 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-221315 | Rel-17 CR 32.291 Addition of IMS converged charging announcement yaml | Ericsson LM | 32.291 | 0377 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-221651 | Rel-17 CR 32.291 Addition of IMS converged charging announcement yaml | Ericsson LM | 32.291 | 0377 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-221737 | Rel-17 CR 32.291 Correct the Open API | Huawei | 32.291 | 0378 | - | Rel-17 | F | TEI17 | agreed |
| S5-221103 | Rel-17 CR 32.298 Additional charging information for the 5G LAN communication | Huawei | 32.298 | 0882 | - | Rel-17 | B | 5GLAN\_CH | not pursued |
| S5-221108 | Rel-16 CR 32.298 Correction on the UPF Id used for QBC | Huawei | 32.298 | 0883 | - | Rel-16 | F | TEI16,5GS\_Ph1-DCH | not pursued |
| S5-221109 | Rel-17 CR 32.298 Correction on the UPF Id used for QBC | Huawei | 32.298 | 0884 | - | Rel-17 | A | TEI16,5GS\_Ph1-DCH | not pursued |
| S5-221114 | Rel-16 CR 32.298 Correction on the Charging Identifier Uniqueness | Huawei | 32.298 | 0885 | - | Rel-16 | F | 5GIEPC\_CH | not pursued |
| S5-221115 | Rel-17 CR 32.298 Correction on the Charging Identifier Uniqueness | Huawei | 32.298 | 0886 | - | Rel-17 | A | 5GIEPC\_CH | not pursued |
| S5-221312 | Rel-17 CR 32.298 Addition of IMS converged charging ASN.1 | Ericsson LM | 32.298 | 0887 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-221686 | Rel-17 CR 32.298 Addition of IMS converged charging ASN.1 | Ericsson LM | 32.298 | 0887 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-221314 | Rel-17 CR 32.298 Addition of MMTel converged charging ASN.1 | Ericsson LM | 32.298 | 0888 | - | Rel-17 | B | 5GSIMSCH | revised |
| S5-221687 | Rel-17 CR 32.298 Addition of MMTel converged charging ASN.1 | Ericsson LM | 32.298 | 0888 | 1 | Rel-17 | B | 5GSIMSCH | agreed |
| S5-221148 | Rel-17 CR TS 32.422 Correct the value of Report Interval in NR for alignment | China Telecom Corporation Ltd. | 32.422 | 0384 | - | Rel-17 | A | TEI16 | revised |
| S5-221523 | Rel-17 CR TS 32.422 Correct the value of Report Interval in NR for alignment | China Telecom Corporation Ltd. | 32.422 | 0384 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-221166 | Add MDT reporting for NR | Ericsson LM | 32.422 | 0385 | - | Rel-16 | B | e\_5GMDT | not pursued |
| S5-221168 | Add MDT reporting for NR | Ericsson LM | 32.422 | 0386 | - | Rel-17 | B | e\_5GMDT | revised |
| S5-221534 | Add MDT reporting for NR | Ericsson LM | 32.422 | 0386 | 1 | Rel-17 | B | e\_5GMDT | agreed |
| S5-221170 | Add MDT signalling activation and deactivation mechanisms in a split architecture for NR | Ericsson LM | 32.422 | 0387 | - | Rel-17 | B | e\_5GMDT | revised |
| S5-221535 | Add MDT signalling activation and deactivation mechanisms in a split architecture for NR | Ericsson LM | 32.422 | 0387 | 1 | Rel-17 | B | e\_5GMDT | agreed |
| S5-221172 | Add MDT management activation and deactivation mechanism in the case of split architecture for NR | Ericsson LM | 32.422 | 0388 | - | Rel-17 | B | e\_5GMDT | revised |
| S5-221536 | Add MDT management activation and deactivation mechanism in the case of split architecture for NR | Ericsson LM | 32.422 | 0388 | 1 | Rel-17 | B | e\_5GMDT | agreed |
| S5-221411 | Rel-16 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | 32.422 | 0389 | - | Rel-16 | F | 5GMDT | revised |
| S5-221524 | Rel-16 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | 32.422 | 0389 | 1 | Rel-16 | F | 5GMDT | agreed |
| S5-221412 | Rel-17 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | 32.422 | 0390 | - | Rel-17 | A | 5GMDT | revised |
| S5-221525 | Rel-17 CR 32.422 Alignment of parameter names and clean up | Nokia, Nokia Shanghai Bell | 32.422 | 0390 | 1 | Rel-17 | A | 5GMDT | agreed |
| S5-221495 | Rel-16 CR TS 32.422 Correct the value of Report Interval in NR for alignment | China Telecom | 32.422 | 0391 | - | Rel-16 | F | TEI16 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-221453 |  | Resubmitted LS on Guidelines on Port Allocation for New 3GPP Interfaces | C4-214848 | noted | (none) |
| S5-221454 |  | Reply LS on Guidelines on Port Allocation for New 3GPP Interfaces | R3-216233 | noted | (none) |
| S5-221455 |  | LS on the first deliverable on use cases for autonomous networks from ITU FG-AN | ITU-T FOCUS GROUP ON AUTONOMOUS NETWORKS (FG-AN) | postponed | (none) |
| S5-221456 |  | Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486 | TM Forum | replied to | S5-221493 |
| S5-221457 |  | Resubmitted LS APT REPORT ON EMERGING CRITICAL APPLICATIONS & USE CASES OF IMT FOR INDUSTRIAL, SOCIETAL AND ENTERPRISE USERS | APT Wireless Group | noted | (none) |
| S5-221458 |  | Liaison  Multi-SDO Autonomous Networks (AN) Formal Liaison:  Minutes and Actions 22nd Nov 2021 Meeting #13  Ref AN-SDO2021-13 | TM Forum | noted | (none) |
| S5-221459 |  | Resubmitted Liaison  Multi-SDO Autonomous Networks Liaison:  Intent Management documents for information and feedback | TM Forum | noted | (none) |
| S5-221460 |  | Liaison  Multi-SDO Autonomous Networks (AN) Formal Liaison:  22nd November 2021 Meeting Invitation, Agenda, Bridge, and  Meeting Schedule Ref AN-SDO2021-13 | TM Forum | noted | (none) |
| S5-221461 |  | Multi-SDO Autonomous Networks (AN) Formal Liaison:  Notification of Open Presentation 14th Jan and 31st Jan 2020 (postponed December) formal meeting #15 Ref AN-SDO2022-01 | TM Forum | noted | (none) |
| S5-221462 |  | Reply LS from GSMA Operator Platform API Group to 3GPP SA, SA2, SA5, SA6 and ETSI ISG MEC on edge computing definition and integration | GSMA | noted | (none) |
| S5-221463 |  | Reply LS from GSMA Operator Platform Group to 3GPP SA, SA2, SA5, SA6 and ETSI ISG MEC on edge computing definition and integration. | GSMA | noted | (none) |
| S5-221464 |  | Reply LS ccSA5 on Beam measurement reports for the MDT measurements | R2-2111476 | noted | (none) |
| S5-221465 |  | Reply LS ccSA5 on MDT Stage 2 and Stage 3 Alignment (reply LS to R3-207222) | R2-2111567 | noted | (none) |
| S5-221466 |  | LS ccSA5 on RAN visible QoE | R2-2111603 | noted | (none) |
| S5-221467 |  | Resubmitted LS on RAN3 agreements for NR QoE | R3-214477 | noted | (none) |
| S5-221468 |  | Reply LS (to S5-214652) on the F1 interface for MOCN network sharing for multiple Cell Identity broadcast scenario | R3-216218 | noted | (none) |
| S5-221469 |  | Response to LS Reply LS on Enhancement of RAN Slicing | R3-216238 | postponed | (none) |
| S5-221470 |  | Resubmitted LS on introducing NR RedCap Indication | S2-2107853 | noted | (none) |
| S5-221471 |  | Resubmitted LS on MINT functionality for Disaster Roaming | S2-2108172 | noted | (none) |
| S5-221472 |  | Reply LS ccSA5 on LS on MINT functionality for Disaster Roaming | S3-214342 | noted | (none) |
| S5-221473 |  | Reply LS ccSA5 on LS on MINT functionality for Disaster Roaming | S3-214416 | noted | (none) |
| S5-221474 |  | Reply LS ccSA5 on QoE report handling at QoE pause | S3-214458 | noted | (none) |
| S5-221475 |  | Resubmitted LS on TS 28.404/TS 28.405 Clarification | S4-211234 | postponed | (none) |
| S5-221476 |  | Resubmitted LS on slicing management aspects in relation to SEAL | S6-210709 | replied to | S5-221548 |
| S5-221477 |  | Resubmitted LS on network slice management service consumption | S6-212460 | replied to | S5-221560 |
| S5-221478 |  | LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539) | ITU-T SG2 | replied to | S5-221492 |
| S5-221479 |  | LS on the Consent of Recommendation ITU-T M.3381 (ex. M.resm-AI), "Requirements for energy saving management of 5G RAN system with AI" | ITU-T SG2 | replied to | S5-221502 |
| S5-221480 |  | LS on consideration of a new work on ITU-T M.fcnhe: "Framework of communication network health evaluation" | ITU-T SG2 | noted | (none) |
| S5-221481 |  | LS/r on methodology harmonization update (reply to 3GPP TSG SA5-S5-215481) | ITU-T SG2 | postponed | (none) |
| S5-221482 |  | LS on ongoing work within ITU-T Study Group 3 (SG3) on new Technical Report on “IMT2020-Related Policy Considering MVNOs” | ITU-T SG3 | noted | (none) |
| S5-221483 |  | LS on Energy Efficiency as guiding principle for new solutions | SP-211621 | replied to | S5-221501 |
| S5-221485 |  | Multi-SDO Autonomous Networks (AN) Formal Liaison: Notification of Open Presentation 14th Jan and 21st February 2022 (postponed December) formal meeting #15 Ref AN-SDO2022-01 rev 1 | TM Forum | noted | (none) |
| S5-221491 |  | Reply LS ccSA5 to GSMA Operator Platform Group on edge computing definition and integration | SP-220003 | noted | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-221492 | Reply to: LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539) | ITU-T SG2 | - | S5-221478 |
| S5-221493 | Reply to: Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486 | TM Forum | SA | S5-221456 |
| S5-221501 | Reply LS to SA on energy efficiency as guiding principle for new solutions | SA | RAN, CT, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, RAN5, CT1, CT3, CT4, CT6 | S5-221483 |
| S5-221502 | Reply LS on Recommendation ITU-T M.3381 | ITU-T SG2 | ITU-T SG5, ITU-R WP 5D, TSG SA | S5-221479 |
| S5-221548 | Reply LS on slicing management aspects in relation to SEAL | SA6 | SA2, SA | S5-221476 |
| S5-221560 | Reply LS on network slice management service consumption | SA6 | SA2 | S5-221477 |
| S5-221657 | LSout on Enhancement on Charging Identifier Uniqueness Mechanism | CT4 | CT3 | - |
| S5-221680 | LS on 3GPP SA5 work on 5G network energy efficiency and energy saving | GSMA, NGMN, ITU-T SG5, ETSI TC EE, ETSI ISG NFV | 3GPP SA, SA2, RAN | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-221506 | New SID on Basic SBMA enabler enhancements | Nokia, Nokia Shanghai Bell | SID new |
| S5-221507 | New SID on Management Aspects of URLLC | China Unicom | SID new |
| S5-221508 | New Rel-18 SID on alignment with GSMA OPG and ETSI MEC for Edge computing management | Samsung Electronics Benelux BV | SID new |
| S5-221509 | Management Aspect of User Plane Enhancement | CMCC | SID new |
| S5-221511 | New SID Study on Management of Cloud Native Virtualized Network Functions | China Mobile Com. Corporation | SID new |
| S5-221512 | New SID on Management Aspect Enhancement of 5G MOCN Network Sharing | China Unicom | SID new |
| S5-221513 | New SID on intent-driven management for network slicing | Ericsson Inc. | SID new |
| S5-221514 | New SID on further Enhancements of Management of Trace/MDT | Nokia, Nokia Shanghai Bell | SID new |
| S5-221553 | New SID on Fault Supervision Evolution | China Mobile Com. Corporation;HUAWEI | SID new |
| S5-221672 | Revised SID on 5G roaming charging architecture for wholesale and retail scenarios | Ericsson LM | SID revised |
| S5-221740 | SID revised was SP-210131 SID on network slice management capability exposure | Alibaba Group | SID revised |
| S5-221767 | Revised SID for FS\_CICDNS | Lenovo, Motorola Mobility, CMCC | SID revised |
| S5-221510 | New WID on enhancement of 5G+ NRM features | Nokia, Nokia Shanghai Bell | WID new |
| S5-221554 | New Rel-18 WID on enhanced Edge Computing Management | Samsung Electronics Benelux BV | WID new |
| S5-221641 | New WID on 5G charging for additional roaming scenarios and actors | Vodafone Italia SpA,  MATRIXX Software | WID new |
| S5-221655 | New WID on Network Slice charging based on 5G data connectivity | MATRIXX Software | WID new |
| S5-221295 | Updated WID Edge Computing Management | Samsung Electronics Benelux BV | WID revised |
| S5-221358 | Revised WID Charging aspects of edge computing | Intel | WID revised |
| S5-221400 | Revised WID on Enhancement of Handover Optimization | Ericsson France S.A.S | WID revised |
| S5-221499 | Revised WID Rel-17 NSA\_SBMA | Ericsson | WID revised |
| S5-221576 | Revised WID for MADCOL | Nokia | WID revised |
| S5-221590 | Revised WID on Enhanced Closed loop SLS assurance | Ericsson GmbH, Eurolab | WID revised |
| S5-221723 | Revised WID Charging aspects of 5G LAN VN Group | Huawei | WID revised |
| S5-221735 | Revised WID Charging aspects of Architecture Enhancement for NR Reduced Capability Devices | CMCC | WID revised |
| S5-221738 | Revised work item on management of the enhanced tenant concept | Huawei | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-221643 | 32.257 | 0.3.0 | Draft TS 32.257 |
| S5-221644 | 28.822 | 1.1.0 | Draft TR 28.822 |
| S5-221645 | 32.847 | 1.1.0 | Draft TR 32.847 |
| S5-221646 | 28.826 | 0.3.0 | Draft TR 28.826 |
| S5-221647 | 28.827 | 0.4.0 | Draft TR 28.827 |
| S5-221709 | 28.315 | 0.4.0 | Latest draft TS 28.315 |
| S5-221741 | 28.105 | 0.1.0 | Latest draft TS 28.105 |
| S5-221746 | 28.557 | 1.3.0 | Latest draft TS 28.557 |
| S5-221747 | 28.312 | 0.8.0 | Latest draft TS 28.312 |
| S5-221748 | 28.104 | 0.4.0 | Latest draft TS 28.104 |
| S5-221749 | 28.314 | 0.5.0 | Latest draft TS 28.314 |
| S5-221750 | 28.316 | 0.3.0 | Latest draft TS 28.316 |
| S5-221751 | 28.538 | 0.5.0 | Latest draft TS 28.538 |
| S5-221752 | 28.824 | 0.5.0 | Latest draft TR 28.824 |
| S5-221753 | 28.819 | 0.5.0 | Latest draft TR 28.819 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Dr. | Al-kanani | Hassan | NEC Europe Ltd | NEC Telecom MODUS Ltd. |
| Mrs. | Allwang | Christiane | Nokia Germany | Nokia Germany |
| Mr. | audebert | vincent | EDF Recherche et Développement | EDF Recherche et Développement |
| Mr. | Berisot | Thierry | NOVAMINT | NOVAMINT |
| Mr. | Bommasandra Sadasiva | Venkatesh | Dish Network | Dish Network |
| Mr. | Brown | Michael | Microsoft Europe SARL | Microsoft Europe SARL |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Miss | cao | guangjing | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Cao | Longyu | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Mr. | Cao | Xi | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon Denmark |
| Dr. | Chen | Ai | China Mobile Com. Corporation | China Mobile (Hangzhou) Inf. |
| Mr. | Chen | Dewei | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Miss | CHEN | SHAN | Huawei Tech.(UK) Co.. Ltd | HiSilicon Technologies Co. Ltd |
| Miss | Chen | Xiumin | China Telecommunications | China Telecom Corporation Ltd. |
| Mr. | Chou | Joey | Intel Corporation (UK) Ltd | Intel |
| Dr. | Cornily | Jean Michel | Orange | Orange Spain |
| Mr. | Costello | Tim | BT plc | BT plc |
| Mr. | Dempo | Hiroshi | NEC Corporation | NEC Corporation |
| Miss | Dong | Jia | China Mobile E-Commerce Co. | China Mobile Com. Corporation |
| Mr. | Elmdahl | Per | Ericsson France S.A.S | Ericsson France S.A.S |
| Dr. | Featherstone | Walter | Samsung R&D Institute UK | Samsung Electronics Polska |
| Miss | Feng | Chengcheng | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | Gao | Xiao-Ming | Ericsson LM | Ericsson LM |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | Samsung Electronics Benelux BV |
| Mr. | Glozman | Borislav | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd |
| Mr. | Görmer | Gerald | MATRIXX Software | MATRIXX Software |
| Mr. | Groenendijk | Jan | Ericsson LM | Ericsson GmbH, Eurolab |
| Miss | Guo | Chuyi | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | Gupta | Varini | Samsung R&D Institute India | Samsung Electronics Iberia SA |
| Mr. | Guttman | Erik | Samsung R&D Institute UK | Samsung Electronics GmbH |
| Mr. | Hassett | Brendan | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Sweden AB |
| Mr. | Hatanaka | Yoshitaka | NTT DOCOMO INC. | NTT DOCOMO INC. |
| Miss | He | Xin | China Unicom | China Unicom |
| Mr. | Horvat | Atila | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Ms. | Hu | Yaxi | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Miss | Huang | Xietian | HUAWEI Technologies Japan K.K. | HUAWEI Technologies Japan K.K. |
| Mr. | Jerbi | Walid | Deutsche Telekom AG | Deutsche Telekom AG |
| Mr. | Ju | Manchang | ZTE Corporation | ZTE Corporation |
| Mr. | Kaushik | Ashutosh | Samsung R&D Institute UK | Harman GmbH |
| Mr. | Kim | Joel | Facebook | Meta USA |
| Mr. | Klotz | Michael | Deutsche Telekom AG | Deutsche Telekom AG |
| Dr. | Kollar | Martin | Nokia Solutions & Networks (I) | Nokia Solutions & Networks (I) |
| Mr. | Lau | Stephen | Kepler | Kepler |
| Mr. | Lengyel | Balazs | Ericsson Hungary Ltd | Ericsson Hungary Ltd |
| Mr. | Li | Gang | Nanjing Ericsson Panda Com Ltd | Nanjing Ericsson Panda Com Ltd |
| Mrs. | li | jing | China Unicom | China Unicom |
| Mr. | Li | Shitao | Huawei Tech.(UK) Co.. Ltd | HUAWEI TECH. GmbH |
| Dr. | Liang | Haoran | Xiaomi Communications | Xiaomi Communications |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi Technology |
| Mr. | Lu | Yang | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Lyu | Feibi | China Unicom | China Unicom |
| Mr. | Malashnyak | Volodymyr | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Mr. | McDonnell | Kevin | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | mishra | sanjiv | Nokia Solutions & Networks (I) | Nokia Solutions & Networks (I) |
| Mr. | Mo | Zhiwei | China Telecommunications | China Telecommunications |
| Ms. | Monika | Gupta | Amdocs Software Systems Ltd | Amdocs Software Systems Ltd |
| Dr. | Mwanje | Stephen | Nokia | Nokia Germany |
| Mr. | Niang | Mamadou M. | Verizon UK Ltd | Verizon Spain |
| Ms. | Niu | Yuxia | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Ordonez-Lucena | Jose | TELEFONICA S.A. | TELEFONICA S.A. |
| Dr. | Panaitopol | Dorin | THALES | THALES |
| Mr. | Petersen | Robert | Ericsson LM | Ericsson Inc. |
| Dr. | Pollakowski | Olaf | Nokia Germany | Nokia Germany |
| Mrs. | Ponniah | Malathi | Nokia Solutions & Networks (I) | Nokia Solutions & Networks (I) |
| Mr. | Potter | Benjamin | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Mr. | Pozo | Sergio | VODAFONE Group Plc | Vodafone Italia SpA |
| Ms. | Qiao | Xiaoyu | Apple GmbH | Apple R&D |
| Mr. | Rodrigues | Joao | Nokia | Nokia UK |
| Mr. | Ronco | Enrico | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mrs. | Rosa Bolzek | Cintia | Ericsson LM | Ericsson India Private Limited |
| Miss | Sabater | Susana | VODAFONE Group Plc | Vodafone España SA |
| Dr. | Sadeghi | Bahar | Microsoft Europe SARL | Microsoft Europe SARL |
| Dr. | Samdanis | Konstantinos | Nokia Germany | Nokia Germany |
| Mr. | Scott | Mark | Ericsson LM | Ericsson LM |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Softwar | Beijing Xiaomi Mobile Softwar |
| Mrs. | Shi | xiaoli | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Mr. | Shu | Min | CATT | CATT |
| Mr. | Smith | David K. | AT&T GNS Belgium SPRL | AT&T |
| Miss | Song | Xiaojia | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | Sun | Mingrui | China Unicom | China Unicom |
| Ms. | Sun | Qi | China Mobile Research Inst. | CCSA |
| Mr. | Sun | Sean | Nokia Shanghai Bell | Nokia Shanghai Bell |
| Mrs. | Tang | Chunying | AsiaInfo Technologies Inc | AsiaInfo Technologies Inc |
| Mr. | Tangudu | Narendranath Durga | Samsung R&D Institute India | Samsung Electronics Romania |
| Mr. | tanikawa | kazunori | NICT | NICT |
| Mr. | Thalanany | Sebastian | US Cellular Corporation | US Cellular Corporation |
| Mr. | Tokel | Baris | ASELSAN | ASELSAN |
| Mr. | Törnkvist | Robert | Ericsson LM | Ericsson España S.A. |
| Mr. | Tovinger | Thomas | Ericsson LM | Ericsson LM |
| Miss | tunali | aysegul | ASELSAN | ASELSAN |
| Mr. | Vaishnavi | Ishan | Lenovo (Beijing) Ltd | Lenovo (Beijing) Ltd |
| Mr. | WANG | CHEN | China Mobile Research Inst. | China Mobile Com. Corporation |
| Ms. | Wang | Jingyun | China Unicom | China Unicom |
| Ms. | Wang | Junfeng | Ericsson LM | Oy LM Ericsson AB |
| Mr. | Wang | Le | CMDI | CMDI |
| Ms. | Wang | Man | HuaWei Technologies Co., Ltd | Huawei Telecommunication India |
| Dr. | Wang | Zhaoning | China Unicom | China Unicom |
| Ms. | Weaver | Farni | T-Mobile USA | T-Mobile USA Inc. |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Softwar | Beijing Xiaomi Mobile Software |
| Mr. | Xie | Baoguo | ZTE Corporation | ZTE Corporation |
| Ms. | Xie | Yuxuan | China Mobile Research Inst. | China Mobile Com. Corporation |
| Dr. | Xu | Lexi | China Unicom | China Unicom |
| Mr. | Xu | Ruiyue | Huawei Tech.(UK) Co.. Ltd | Huawei Technologies France |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | Intel Belgium SA/NV |
| Mrs. | Yeltekin | Yasemin | ASELSAN | ASELSAN |
| Dr. | Yu | Xiaobo | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Ms. | Yuchao | Jin | China Unicom | China Unicom |
| Mr. | Zadeh | Bagher | Ericsson LM | Ericsson Limited |
| Mr. | Zeng | Qingjun | CBN | CBN |
| Miss | Zhang | Jiachen | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | Zhang | Jian | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Mr. | Zhang | Kai | Huawei Tech.(UK) Co.. Ltd | Huawei Technologies R&D UK |
| Dr. | Zhao | Guliang | INSPUR | INSPUR |
| Mr. | Zhao | Song | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Zhu | Lei | Huawei Tech.(UK) Co.. Ltd | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Zhu | Weihong | ZTE Corporation | ZTE Corporation |
| Ms. | Zou | Lan | Huawei Tech.(UK) Co.. Ltd | Huawei Technologies (Korea) |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#142e | 04/04/2022 | 12/04/2022 |  | Online |  |
| SA5#143e | 09/05/2022 | 17/05/2022 |  | Online |  |