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

**Meeting Report  
for  
TSG SA WG5  
meeting: 148e**

**Online, Electronic meeting, 17/04/2023 to 21/04/2023**

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## 1 Opening of the meeting

Notes of the email discussions can be found in tdoc S5-233183 for OAM/Plenary and S5-233186 for Charging.

## 2 Approval of the agenda

**S5-233176 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.

**S5-233177 IPR and legal declaration**

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

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

## 4 Meetings and activities reports

### 4.1 Last SA5 meeting report

**S5-233178 Report from last SA5 meeting**

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

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

### 4.2 Inter-organizational reports

## 5 SA5 level issues

### 5.1 Administrative issues at SA5 level

**S5-233179 Post e-meeting email approval status**

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

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

**S5-233187 SA5 working procedures**

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

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

**S5-233190 Process for management of draft TS-TRs**

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

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

**S5-233193 SA5#148e E-Meeting Process**

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

**Decision:** The document was **revised to S5-233584**.

**S5-233584 SA5#148e E-Meeting Process**

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

(Replaces S5-233193)

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

**S5-233406 SA5 Working Procedures**

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

**Decision:** The document was **revised to S5-233552**.

**S5-233552 SA5 Working Procedures**

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

(Replaces S5-233406)

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

### 5.2 Technical issues at SA5 level

**S5-233319 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

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

(Replaces S5-232752)

**Decision:** The document was **revised to S5-233569**.

**S5-233569 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

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

(Replaces S5-233319)

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

**S5-233320 Service Management**

*Type: other For: (not specified)  
 Source: Ericsson*

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

**S5-233365 Discussion on Service Management**

*Type: discussion For: Agreement  
 Source: Nokia*

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

### 5.3 Liaison statements at SA5 level

**S5-233197 LS on the new work item Y.Arch\_NGNe\_ncp ""Architectural evolution of NGN control plane by applying SDN technology""**

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

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

**S5-233201 Reply LS ccSA5 on 5G capabilities exposure for factories of the future – identified gaps (5G-ACIA-LS-2022-005 / S2-2302175)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303304*

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

**S5-233202 LS reply to TSG SA ccSA5 on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-231387*

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

**S5-233209 An Invitation to the SA4 Gender Diversity Committee Meetings**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-230431*

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

**S5-233210 Reply-LS ccSA5 on Research highlighting potential negated OAuth policy**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-230487*

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

**S5-233211 Reply LS ccSA5 on Tracking IANA assignment requests**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-230802*

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

**S5-233213 LS reply to TSG SA ccSA5 on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-231068*

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

**S5-233328 LS on publication of GSMA OPG and OPAG documents**

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

**Decision:** The document was **replied to in S5-233543**.

**S5-233543 Reply to: LS on publication of GSMA OPG and OPAG documents**

*Type: LS out For: approval  
 to GSMA  
 Source: Huawei*

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

**S5-233540 LS on new Recommendation ITU-T Y.3160 (ex.Y.SLOA-arch) “Architectural framework of end-to-end service level objective guarantee for future networks including IMT-2020”.**

*Type: LS in For: Information  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T*

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

### 5.4 SA5 meeting calendar

**S5-233191 SA5 meeting calendar**

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

**Decision:** The document was **revised to S5-233553**.

**S5-233553 SA5 meeting calendar**

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

(Replaces S5-233191)

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-233180 OAM&P action list**

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

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

**S5-233181 agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

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

**S5-233182 OAM Exec Report**

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

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

**S5-233183 OAM Chair notes and conclusions**

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

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

**S5-233188 Collection of Rel-18 3GPP SA5 OAM WoP**

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

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

**S5-233189 Living document for stage 2-3 alignment**

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

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

**S5-233192 Time Plan for OAM&P sessions**

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

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

**S5-233194 TM Forum Liaison: Update on TM Forum Intent Management API and Ontologies – Connector model and 3GPP connector mode**

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

**Decision:** The document was **replied to in S5-233549**.

**S5-233549 Reply to: TM Forum Liaison: Update on TM Forum Intent Management API and Ontologies – Connector model and 3GPP connector mode**

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

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

**S5-233196 Resubmitted LS on Performance measurement for AI/ML**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2211428*

**Decision:** The document was **replied to in S5-233550**.

**S5-233550 Reply to: Resubmitted LS on Performance measurement for AI/ML**

*Type: LS out For: approval  
 to SA2, cc RAN3  
 Source: Intel*

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

**S5-233198 LS on the consent of draft new Recommendation ITU-T Y.3183 (ex. ITU-T Y.ML-IMT2020-VNS): ""Framework for network slicing management assisted by machine learning leveraging QoE feedback from verticals""**

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

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

**S5-233199 Resubmitted LS on secured and trusted access to the serving PLMN OAM server by a MBSR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2301465*

**Decision:** The document was **replied to in S5-233546**.

**S5-233546 Reply to: Resubmitted LS on secured and trusted access to the serving PLMN OAM server by a MBSR**

*Type: LS out For: approval  
 to SA2  
 Source: Huawei*

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

**S5-233200 Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR**

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

**Decision:** The document was **replied to in S5-233613**.

**S5-233551 Reply to: Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR**

*Type: LS out For: approval  
 to O-RAN, cc SA  
 Source: Samsung*

**Decision:** The document was **revised to S5-233613**.

**S5-233613 Reply to: Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR**

*Type: LS out For: approval  
 to O-RAN, cc SA  
 Source: Samsung*

(Replaces S5-233551)

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

**S5-233203 Reply LS ccSA5 on the user consent for trace reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-231398*

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

**S5-233204 Reply LS ccSA5 on user consent of Non-public Network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-231399*

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

**S5-233205 Reply LS ccSA5 on ID of MBS session in MBS QoE configuration**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-230347*

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

**S5-233206 Reply LS ccSA5 on QoE measurements in RRC IDLE/INACTIVE states**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-230369*

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

**S5-233208 Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3-231400*

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

**S5-233212 Reply LS on handover failures related to MRO for inter-system mobility**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-230805*

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

**S5-233214 LS on requirement for network slice management service exposure interface and exposure entities**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-230793*

**Decision:** The document was **replied to in S5-233624**.

**S5-233215 Resubmitted LS on NCR Solutions**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-225253*

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

**S5-233216 Resubmitted Reply LS to SA5 on TS 28.404/TS 28.405 Clarification**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-221121*

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

**S5-233217 Resubmitted LS on RAN3 agreements for NR QoE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-222890*

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

**S5-233218 Resubmitted LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541**

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

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

**S5-233243 LS on work progress of M.fidtom, “Framework of intent driven telecom operation and management” (reply to 3GPP TSG SA5-S5-225599).**

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

**Decision:** The document was **replied to in S5-233545**.

**S5-233545 Reply to: LS on work progress of M.fidtom, “Framework of intent driven telecom operation and management” (reply to 3GPP TSG SA5-S5-225599).**

*Type: LS out For: approval  
 to ITU-T SG2, cc SA  
 Source: Huawei*

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

**S5-233244 LS on Consent of revised Recommendation ITU-T M.3020, “Management Interface Specification Methodology” (reply to 3GPP TSG SA5-S5-225615)**

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

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

**S5-233245 LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM)**

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

**Decision:** The document was **replied to in S5-233547**.

**S5-233547 Reply to: LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM)**

*Type: LS out For: approval  
 to ITU-T, cc SA  
 Source: China Mobile*

**Decision:** The document was **revised to S5-233711**.

**S5-233711 Reply to: LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM)**

*Type: LS out For: approval  
 to ITU-T, cc SA  
 Source: China Mobile*

(Replaces S5-233547)

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

**S5-233246 LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management”**

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

**Decision:** The document was **replied to in S5-233548**.

**S5-233548 Reply to: LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management”**

*Type: LS out For: approval  
 to ITU-T  
 Source: China Mobile*

**Decision:** The document was **revised to S5-233712**.

**S5-233712 Reply to: LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management”**

*Type: LS out For: approval  
 to ITU-T, cc SA  
 Source: China Mobile*

(Replaces S5-233548)

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

**S5-233263 Rel-18&Rel-19 time plan proposal for OAM**

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

(Replaces S5-232763)

**Decision:** The document was **revised to S5-233555**.

**S5-233555 Rel-18&Rel-19 time plan proposal for OAM**

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

(Replaces S5-233263)

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

**S5-233322 Reply LS on interface and exposure entities requirement for network slice management service**

*Type: LS out For: Approval  
 to SA6  
 Source: L.M. Ericsson Limited*

**Decision:** The document was **revised to S5-233554**.

**S5-233554 Reply LS on interface and exposure entities requirement for network slice management service**

*Type: LS out For: Approval  
 to SA6  
 Source: L.M. Ericsson Limited*

(Replaces S5-233322)

**Decision:** The document was **revised to S5-233624**.

**S5-233624 Reply LS on interface and exposure entities requirement for network slice management service**

*Type: LS out For: Approval  
 to SA6  
 Source: L.M. Ericsson Limited*

(Replaces S5-233554)

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

**S5-233385 LS to 5G-ACIA on Management of non-public networks**

*Type: LS out For: Approval  
 to 5G ACIA  
 Source: Huawei*

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

**S5-233391 S5-23xxxx DP for Rel-19 topic**

*Type: discussion For: Endorsement  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-233556**.

**S5-233556 S5-23xxxx DP for Rel-19 topic**

*Type: discussion For: Endorsement  
 Source: Samsung Electronics France SA*

(Replaces S5-233391)

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

**S5-233527 Collection of useful endorsed document and external communication documents**

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

(Replaces S5-232011)

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

**S5-233541 LS to SA5 on E2E Network Slicing Requirements**

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

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

**S5-233544 Reply LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541**

*Type: LS out For: Approval  
 to O-RAN  
 Source: Ericsson*

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

### 6.2 New OAM&P Work Item proposals

#### 6.2.1 Intelligence and Automation

**S5-233408 New WID on autonomous network levels phase 2**

*Type: WID new For: Approval  
 Source: China Mobile, Huawei, AsiaInfo, CATT, ZTE, China Unicom, Intel*

(Replaces S5-232769)

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

#### 6.2.2 Management Architecture and Mechanisms

**S5-233497 Updade Release 18 SID on Management Aspects of URLLC**

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

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

**S5-233506 New Rel-18 WID on Management Aspects of URLLC**

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

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

**S5-233510 New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2**

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

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

**S5-233524 New WID on Management of cloud-native Virtualized Network Functions**

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

**Decision:** The document was **revised to S5-233557**.

**S5-233557 New WID on Management of cloud-native Virtualized Network Functions**

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

(Replaces S5-233524)

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

#### 6.2.3 Support of New Services

**S5-233232 New Work Item on Network and Service Operations for Energy Utilities**

*Type: WID new For: Agreement  
 Source: Samsung, EUTC, EDF, BMWK, Deutsche Telekom, Huawei, Ericsson, NOVAMINT*

**Abstract:**

This work item will realize this potential by providing normative changes corresponding to the conclusions of the Study on Network and Service Operations for Energy Utilities.

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

**S5-233236 FS\_NSOEU and NSOEU WoP**

*Type: other For: Information  
 Source: Samsung (Rapporteur)*

**Abstract:**

A proposed plan for work packages for NSOEU is presented for information and discussion.

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

**S5-233237 Skeleton of new TS 28.abc Network and Services Operations for Energy Utilities**

*Type: other For: Information  
 Source: Samsung (Rapporteur)*

**Abstract:**

This skeleton could stimulate discussion related to the NSOEU WID (S5-233232) and is provided for information only to SA5 148e.

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

### 6.3 OAM&P Maintenance and Rel-18 small Enhancements

#### 6.3.1 Methodology

#### 6.3.2 ANL

#### 6.3.3 MDAS

#### 6.3.4 AI/ML

#### 6.3.5 Energy efficiency

#### 6.3.6 Intent driven management

#### 6.3.7 SON

#### 6.3.8 QMC

#### 6.3.9 Network slicing management

#### 6.3.10 MEC management

#### 6.3.11 General NRM

#### 6.3.12 PM/KPI

#### 6.3.13 Trace/MDT

#### 6.3.14 Other

### 6.4 Intelligence and Automation

#### 6.4.1 Self-Configuration of RAN NEs

##### 6.4.1.1 RANSC\_WoP#1

##### 6.4.1.2 RANSC\_WoP#2

##### 6.4.1.3 RANSC\_WoP#3

##### 6.4.1.4 Draft TS 28.317

#### 6.4.2 Management Data Analytics phase 2

##### 6.4.2.1 eMDAS\_Ph2\_WoP#1

##### 6.4.2.2 eMDAS\_Ph2\_WoP#2

##### 6.4.2.3 eMDAS\_Ph2\_WoP#3

##### 6.4.2.4 eMDAS\_Ph2\_WoP#4

##### 6.4.2.5 eMDAS\_Ph2\_WoP#5

##### 6.4.2.6 eMDAS\_Ph2\_WoP#6

##### 6.4.2.7 eMDAS\_Ph2\_WoP#7

### 6.5 Management Architecture and Mechanisms

#### 6.5.1 Network slicing provisioning rules

##### 6.5.1.1 NSRULE\_WoP#1

##### 6.5.1.2 NSRULE\_WoP#2

#### 6.5.2 Additional NRM features phase 2

##### 6.5.2.1 AdNRM\_ph2\_WoP#1

##### 6.5.2.2 AdNRM\_ph2\_WoP#2

##### 6.5.2.3 AdNRM\_ph2\_WoP#3

##### 6.5.2.4 AdNRM\_ph2\_WoP#4

#### 6.5.3 Enhanced Edge Computing Management

##### 6.5.3.1 eECM\_WoP#1

##### 6.5.3.2 eECM\_WoP#2

##### 6.5.3.3 eECM\_WoP#3

#### 6.5.4 Enhancement of QoE Measurement Collection

##### 6.5.4.1 eQoE\_WoP#1

##### 6.5.4.2 eQoE\_WoP#2

#### 6.5.5 Access control for management service

##### 6.5.5.1 MSAC\_WoP#1

##### 6.5.5.2 MSAC\_WoP#2

##### 6.5.5.3 MSAC\_WoP#3

##### 6.5.5.4 MSAC\_WoP#4

#### 6.5.6 5G performance measurements and KPIs phase 3

##### 6.5.6.1 PM\_KPI\_5G\_Ph3\_WoP#1

##### 6.5.6.2 PM\_KPI\_5G\_Ph3\_WoP#2

##### 6.5.6.3 PM\_KPI\_5G\_Ph3\_WoP#3

#### 6.5.7 Methodology for deprecation

##### 6.5.7.1 OAM\_MetDep\_ WoP#1

### 6.6 Support of New Services

#### 6.6.1 Enhancements of EE for 5G Phase 2

##### 6.6.1.1 EE5GPLUS\_Ph2\_WoP#1

##### 6.6.1.2 EE5GPLUS\_Ph2\_WoP#2

#### 6.6.2 Network slice provisioning enhancement

##### 6.6.2.1 eNETSLICE\_PRO\_WoP#1

##### 6.6.2.2 eNETSLICE\_PRO\_WoP#2

### 6.7 Intelligence and Automation

#### 6.7.1 Study on enhancement of autonomous network levels

##### 6.7.1.1 FS\_eANL\_WoP#1

**S5-233409 pCR TR 28.910 Add gap analysis and recommendation for key issue#5.1b RAN UE throughput optimization**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: China Mobile, Huawei, ZTE, AsiaInfo, China Unicom, CATT*

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

**S5-233457 pCR TR 28.910 Add key issue of attribution to individual MnS**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

3GPP management systemd are composed of many management functions interconnected by service-based management interfaces. The management functions offer vendor-specific functionality on different level of abstraction, have different functions and internal

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

##### 6.7.1.2 FS\_eANL\_WoP#2

##### 6.7.1.3 FS\_eANL\_WoP#3

**S5-233346 pCR TR 28.910 Add potential solution for 5GC NF deployment**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: Huawei*

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

**S5-233410 pCR TR 28.910 Add use cases and requirements for management of ANL**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: China Mobile, Huawei, Deutsche Telecom, AsiaInfo, CATT, China Unicom, ZTE*

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

**S5-233459 pCR TR 28.910 Add potential solution for management of ANL**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: Huawei, China Mobile,Deutsche Telekom*

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

##### 6.7.1.4 FS\_eANL\_WoP#4

**S5-233458 pCR TR 28.910 Add potential solutions for Key Issue #6-1: Autonomous network level for RAN energy saving use case**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: Huawei, Deutsche Telekom, China Mobile*

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

##### 6.7.1.5 Draft TR 28.910

**S5-233411 pCR TR 28.910 Clean up some Editor's Notes and editorial issues**

*Type: pCR For: Approval  
 28.910 v0.4.0  
 Source: China Mobile*

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

**S5-233663 Draft TR 28.910**

*Type: draft TR For: Approval  
 28.910 v0.5.0  
 Source: China Mobile*

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

#### 6.7.2 Study on evaluation of autonomous network levels

##### 6.7.2.1 FS\_ANLEVA\_WoP#1

##### 6.7.2.2 FS\_ANLEVA\_WoP#2

##### 6.7.2.3 FS\_ANLEVA\_WoP#3

##### 6.7.2.4 FS\_ANLEVA\_WoP#4

##### 6.7.2.5 Draft TR 28.909

#### 6.7.3 Study on enhanced intent driven management services for mobile networks

##### 6.7.3.1 FS\_eIDMS\_MN\_WoP#1

##### 6.7.3.2 FS\_eIDMS\_MN\_WoP#2

**S5-233228 pCR TR 28.912 enhance service support expectation**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Nokia*

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

**S5-233229 pCR TR 28.912 intents for slice-based cell configuration**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Nokia*

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

**S5-233230 pCR TR 28.912 Intent Fullfillment feedback**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-233231**.

**S5-233231 pCR TR 28.912 Potential Solution on Intent-driven Closed Loop control**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Nokia*

(Replaces S5-233230)

**Decision:** The document was **revised to S5-233558**.

**S5-233558 pCR TR 28.912 Potential Solution on Intent-driven Closed Loop control**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Nokia*

(Replaces S5-233231)

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

**S5-233274 pCR TR 28.912 Update the Issue#4.6 Intent-driven closed loop control**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233559**.

**S5-233559 pCR TR 28.912 Update the Issue#4.6 Intent-driven closed loop control**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233274)

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

**S5-233388 pCR TR 28.912 Add intent fulfilment feasibility information into intent report**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

**Abstract:**

Add intent fulfilment feasibility information into intent report

**Decision:** The document was **revised to S5-233560**.

**S5-233560 pCR TR 28.912 Add intent fulfilment feasibility information into intent report**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

(Replaces S5-233388)

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

**S5-233389 pCR TR 28.912 Clarification on Issue 4.1 intent driven approach for RAN energy saving**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

**Abstract:**

Clarification on Issue 4.1 intent driven approach for RAN energy saving.

**Decision:** The document was **revised to S5-233562**.

**S5-233562 pCR TR 28.912 Clarification on Issue 4.1 intent driven approach for RAN energy saving**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

(Replaces S5-233389)

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

**S5-233390 pCR TR 28.912 Clarification on Issue 4.2 Intent conflicts**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

**Abstract:**

Clarification on Issue 4.2 Intent conflicts.

**Decision:** The document was **revised to S5-233563**.

**S5-233563 pCR TR 28.912 Clarification on Issue 4.2 Intent conflicts**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

(Replaces S5-233390)

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

**S5-233392 pCR TR 28.912 Clarification on Issue 4.5 Intent report**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

**Abstract:**

Clarification on Issue 4.5 Intent report.

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

**S5-233394 pCR TR 28.912 Clarification on Issue 4.7 Monitoring intent fulfilment information**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: ZTE Corporation*

**Abstract:**

Clarification on Issue 4.7 Monitoring intent fulfilment information.

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

**S5-233473 Intent fulfillment feasibility check and corresponding solutions**

*Type: pCR For: (not specified)  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-233561**.

**S5-233561 Intent fulfillment feasibility check and corresponding solutions**

*Type: pCR For: -  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-233473)

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

**S5-233474 Clarifying the use of ObjectContext and defining another value Property for configuration expectations**

*Type: pCR For: (not specified)  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-233565**.

**S5-233565 Clarifying the use of ObjectContext and defining another value Property for configuration expectations**

*Type: pCR For: -  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-233474)

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

**S5-233475 issue#4.11 Generic information model definition enhancement**

*Type: pCR For: (not specified)  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

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

**S5-233476 issue#4.5.1 Intent report description enhancement**

*Type: pCR For: (not specified)  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-233564**.

**S5-233564 issue#4.5.1 Intent report description enhancement**

*Type: pCR For: -  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-233476)

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

**S5-233477 issue#4.5.1 Intent report potential solution#1 enhancement**

*Type: pCR For: (not specified)  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-233585**.

**S5-233585 issue#4.5.1 Intent report potential solution#1 enhancement**

*Type: pCR For: -  
 28.912 v1.2.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-233477)

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

**S5-233513 pCR TR 28.912 Add solutions for monitoring intent fulfilment**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: China Mobile E-Commerce Co.*

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

##### 6.7.3.3 FS\_eIDMS\_MN\_WoP#3

**S5-233275 pCR TR 28.912 Correct the wrong target and context definition in Issue#5.2**

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

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

##### 6.7.3.4 FS\_eIDMS\_MN\_WoP#4

##### 6.7.3.5 FS\_eIDMS\_MN\_WoP#5

**S5-233272 pCR TR 28.912 Rapporteur on clause 4**

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

**Decision:** The document was **revised to S5-233567**.

**S5-233567 pCR TR 28.912 Rapporteur on clause 4**

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

(Replaces S5-233272)

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

**S5-233273 pCR TR 28.912 Rapporteur clean up on clause 6**

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

**Decision:** The document was **revised to S5-233568**.

**S5-233568 pCR TR 28.912 Rapporteur clean up on clause 6**

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

(Replaces S5-233273)

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

**S5-233276 LS on progress of 3GPP SA5 R18 work on intent driven management**

*Type: LS out For: Approval  
 to TM Forum, ETSI ZSM, ETSI NFV IFA, ITU-T SG2, ITU FG-AN, GSMA OPG, 3GPP SA2,3GPP RAN3, cc 3GPP SA  
 Source: Huawei*

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

**S5-233277 LS on 3GPP SA5 work on intent interface collaboration**

*Type: LS out For: Approval  
 to TM Forum, ETSI ZSM, GSMA OPG, cc 3GPP SA  
 Source: Huawei*

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

**S5-233345 Presentation sheet of TR 28.912 for SA Approval**

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

(Replaces S5-232444)

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

**S5-233481 pCR TR 28.912 Add conclusion and recommendation for enhancement for service support expectation**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-233566**.

**S5-233566 pCR TR 28.912 Add conclusion and recommendation for enhancement for service support expectation**

*Type: pCR For: Approval  
 28.912 v1.2.0  
 Source: China Mobile E-Commerce Co.,Huawei*

(Replaces S5-233481)

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

##### 6.7.3.6 Draft TR 28.912

**S5-233652 Draft TR 28.912**

*Type: draft TR For: discussion  
 28.912 v1.3.0  
 Source: Huawei*

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

#### 6.7.4 Study on intent-driven management for network slicing

##### 6.7.4.1 FS\_NETSLICE\_IDMS\_WoP#1

**S5-233280 pCR TR28.836 Add solution for modelling ServiceProfile attributes as intent expectation for network slice service delivering and assurance**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Huawei, Deutsche Telekom,China Mobile*

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

**S5-233323 Discussion paper on applicability of service profile parameters for intent**

*Type: discussion For: Endorsement  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Decision:** The document was **revised to S5-233570**.

**S5-233570 Discussion paper on applicability of service profile parameters for intent**

*Type: discussion For: Endorsement  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

(Replaces S5-233323)

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

**S5-233324 Discussion paper on ServAttrCom and Intent**

*Type: discussion For: Endorsement  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Decision:** The document was **revised to S5-233571**.

**S5-233571 Discussion paper on ServAttrCom and Intent**

*Type: discussion For: Endorsement  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

(Replaces S5-233324)

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

**S5-233325 pCR 28.836 Restructure solutions to allow multiple alternatives**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

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

**S5-233326 pCR 28.836 Add network slice expectation definition alternative**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

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

**S5-233456 pCR TR 28.836 Add description of network slice subnet instance in clause 4.2**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: ZTE Corporation*

**Abstract:**

Add description of network slice subnet instance in clause 4.2.

**Decision:** The document was **revised to S5-233572**.

**S5-233572 pCR TR 28.836 Add description of network slice subnet instance in clause 4.2**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: ZTE Corporation*

(Replaces S5-233456)

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

**S5-233472 pCR TR 28.836 Add Use case of Intent driven management to support the operation of network slice instance**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: ZTE Corporation*

**Abstract:**

Add Use case of Intent driven management to support the operation of network slice instance.

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

##### 6.7.4.2 FS\_NETSLICE\_IDMS\_WoP#2

**S5-233327 pCR 28.836 Use case for network slice intent**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

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

##### 6.7.4.3 FS\_NETSLICE\_IDMS\_WoP#3

**S5-233278 pCR TR 28.836 Add procedures for network slice (subnet) delivering and assurance**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Huawei, Deutsche Telekom,China Mobile*

**Decision:** The document was **revised to S5-233586**.

**S5-233586 pCR TR 28.836 Add procedures for network slice (subnet) delivering and assurance**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Huawei, Deutsche Telekom,China Mobile*

(Replaces S5-233278)

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

**S5-233279 pCR TR28.836 Add solution for intent expectation for RAN network slice subnet service delivering and assurance**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Huawei, Deutsche Telekom,China Mobile*

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

**S5-233347 pCR 28.836 Add potential solution for IDM to express expectation of network slice service assurance**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Huawei*

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

##### 6.7.4.4 FS\_NETSLICE\_IDMS\_WoP#4

**S5-233529 Add background information on the 5G features QoS and slicing**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Intent-based network management needs to enable the MnS consumer to benefit from the full flexibility offered by the architecture of the 5GS according to TS 23.501. This pCR adds background information on the features QoS and slicing according to TS 23.5

**Decision:** The document was **revised to S5-233573**.

**S5-233573 Add background information on the 5G features QoS and slicing**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233529)

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

**S5-233538 Add use case of intent-based management of communication services**

*Type: pCR For: Approval  
 28.836 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Intent-based network management allows the consumer to define the desired target state of the communication service and to delegate fulfilment as well as assurance to the management system. From MnS consumer point of view an intent-based MnS combines fulf

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

##### 6.7.4.5 FS\_NETSLICE\_IDMS\_WoP#5

##### 6.7.4.6 Draft TR 28.836

**S5-233710 draft TR 28.836**

*Type: draft TR For: Approval  
 28.836 v0.5.0  
 Source: Ericsson*

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

#### 6.7.5 Study on AI/ ML management

##### 6.7.5.1 FS\_AIML\_MGMT\_WoP#1

**S5-233321 pCR TR 28.908 Correction of terminology**

*Type: pCR For: Agreement  
 28.908 v1.1.0  
 Source: Ericsson India Private Limited*

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

**S5-233381 pCR28.908 Rapporteur clean-up & clarifications**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: NEC, Intel*

**Decision:** The document was **revised to S5-233574**.

**S5-233574 pCR28.908 Rapporteur clean-up & clarifications**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: NEC, Intel*

(Replaces S5-233381)

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

##### 6.7.5.2 FS\_AIML\_MGMT\_WoP#2

**S5-233224 pCR TR28.908 Description for AIML update control**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-233575**.

**S5-233575 pCR TR28.908 Description for AIML update control**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

(Replaces S5-233224)

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

**S5-233271 pCR 28.908 Replacing mandatory language from requirements**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-233282 pCR 28.908 enhance ML retraining**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

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

**S5-233338 pCR 28.908 Add description for ML entity re-training**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-233576**.

**S5-233576 pCR 28.908 Add description for ML entity re-training**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

(Replaces S5-233338)

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

**S5-233339 pCR 28.908 Add description for ML entity update**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

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

**S5-233340 pCR 28.908 Add description for ML entity joint training**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-233577**.

**S5-233577 pCR 28.908 Add description for ML entity joint training**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

(Replaces S5-233340)

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

**S5-233382 pCR28.908 clarifications to ML entity re-training use case**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: NEC, Intel*

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

**S5-233384 pCR28.908 clarifications to Training data effectiveness reporting and analytics use case**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: NEC, Intel*

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

**S5-233399 pCR TR 28.908 Add use case and solution for AI/ML management of RAN domain centrialized ES**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Huawei*

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

**S5-233400 pCR TR 28.908 Update the solution of AI/ML update control**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233587**.

**S5-233587 pCR TR 28.908 Update the solution of AI/ML update control**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Huawei*

(Replaces S5-233400)

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

**S5-233491 pCR TR 28.909 Add description for ML entity joint training**

*Type: pCR For: Approval  
 28.909 v0.2.1  
 Source: China Mobile E-Commerce Co.*

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

**S5-233492 pCR TR 28.909 Add description for ML entity re-training**

*Type: pCR For: Approval  
 28.909 v0.2.1  
 Source: China Mobile E-Commerce Co.*

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

**S5-233515 pCR 28.908 Add use case and requirement on Model evaluation for ML testing**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233578**.

**S5-233578 pCR 28.908 Add use case and requirement on Model evaluation for ML testing**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: CATT*

(Replaces S5-233515)

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

**S5-233525 pCR TR 28.908 Add description for ML entity joint training**

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

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

**S5-233526 pCR TR 28.908 Add description for ML entity re-training**

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

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

**S5-233539 pCR28.908 split of Trustworthy Machine Learning use cases into two parts for training/testing and inference phase**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: NEC, Intel*

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

##### 6.7.5.3 FS\_AIML\_MGMT\_WoP#3

**S5-233225 pCR TR28.908 solution for AIML inference emulation**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-233590**.

**S5-233590 pCR TR28.908 solution for AIML inference emulation**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

(Replaces S5-233225)

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

**S5-233226 pCR TR28.908 solution for configuration of AIML inference**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-233580**.

**S5-233580 pCR TR28.908 solution for configuration of AIML inference**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

(Replaces S5-233226)

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

**S5-233227 pCR TR28.908 Extend Coordination of AI/ML capabilities**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia*

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

**S5-233269 Rel 18 pCR TR 28.908 Enhancement to solutions on AIML trustworthiness**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233588**.

**S5-233588 Rel 18 pCR TR 28.908 Enhancement to solutions on AIML trustworthiness**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233269)

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

**S5-233270 Rel 18 pCR TR 28.908 Evaluation for AI/ML trustworthiness**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233589**.

**S5-233589 Rel 18 pCR TR 28.908 Evaluation for AI/ML trustworthiness**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233270)

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

**S5-233341 pCR 28.908 Add evaluation for trustworth Machine Learning**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

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

**S5-233342 pCR 28.908 Add solution for management of ML entity emulation**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

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

**S5-233343 pCR 28.908 Clarification on solution for AI-ML inference function configuration**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

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

**S5-233516 pCR 28.908 Add potential solution on Model evaluation for ML testing**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233579**.

**S5-233579 pCR 28.908 Add potential solution on Model evaluation for ML testing**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: CATT*

(Replaces S5-233516)

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

##### 6.7.5.4 FS\_AIML\_MGMT\_WoP#4

##### 6.7.5.5 FS\_AIML\_MGMT\_WoP#5

##### 6.7.5.6 FS\_AIML\_MGMT\_WoP#6

**S5-233383 pCR28.908 Further clarifications and corrections to deployment scenarios**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: NEC, Intel*

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

##### 6.7.5.7 FS\_AIML\_MGMT\_WoP#7

**S5-233344 Presentation of TR 28.908 for approval**

*Type: pCR For: Approval  
 28.908 v1.1.0  
 Source: Intel, NEC*

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

##### 6.7.5.8 Draft TR 28.908

**S5-233665 Draft TR 28.908**

*Type: draft TR For: Approval  
 28.908 v1.2.0  
 Source: Intel*

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

#### 6.7.6 Study on Enhancement of the management aspects related to NWDAF

##### 6.7.6.1 FS\_MANWDAF\_WoP#1

##### 6.7.6.2 FS\_MANWDAF\_WoP#2

**S5-233464 pCR 28.864 Update Evaluation and Conclusion for KI#3**

*Type: pCR For: Approval  
 28.864 v1.0.0  
 Source: China Telecommunication*

**Decision:** The document was **revised to S5-233581**.

**S5-233581 pCR 28.864 Update Evaluation and Conclusion for KI#3**

*Type: pCR For: Approval  
 28.864 v1.0.0  
 Source: China Telecommunication*

(Replaces S5-233464)

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

**S5-233465 Discussion paper on summarization of TR 28.864 and work plan for MANWDAF**

*Type: discussion For: Endorsement  
 28.864 v..  
 Source: China Telecommunication*

**Decision:** The document was **revised to S5-233582**.

**S5-233582 Discussion paper on summarization of TR 28.864 and work plan for MANWDAF**

*Type: discussion For: Endorsement  
 28.864 v..  
 Source: China Telecommunication*

(Replaces S5-233465)

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

##### 6.7.6.3 Draft TR 28.864

**S5-233679 Draft TR 28.864**

*Type: draft TR For: Approval  
 28.864 v1.1.0  
 Source: China Telecom*

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

#### 6.7.7 Study on Fault Supervision Evolution

##### 6.7.7.1 FS\_FSEV\_WoP#1

**S5-233480 Stateless Alert in Fault Supervision**

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

(Replaces S5-231106)

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

**S5-233537 DP on FM restructuring TS 28-545**

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

(Replaces S5-232771)

**Decision:** The document was **revised to S5-233583**.

**S5-233583 DP on FM restructuring TS 28-545**

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

(Replaces S5-233537)

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

##### 6.7.7.2 FS\_FSEV\_WoP#2

**S5-233495 pCR TR 28.830 Add description failure prediction enhancement**

*Type: pCR For: Approval  
 28.830 v0.4.0  
 Source: Huawei, China Mobile*

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

**S5-233496 pCR TR 28.830 Add description performance degradation analysis**

*Type: pCR For: Approval  
 28.830 v0.4.0  
 Source: Huawei, China Mobile*

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

##### 6.7.7.3 FS\_FSEV\_WoP#3

##### 6.7.7.4 Draft TR 28.830

### 6.8 Management Architecture and Mechanisms

#### 6.8.1 Study on Enhancement of service based management architecture

##### 6.8.1.1 FS\_eSBMA\_WoP#1

**S5-233467 pCR TR 28.925 Add conclusion and recommendation for issue#9 Improvement on the management function description**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: Huawei*

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

**S5-233468 pCR TR 28.925 Update solution and add conclusion and recommendation for issue#12 illustration of using MnS in management reference model in TS 32.101**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: Huawei*

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

##### 6.8.1.2 FS\_eSBMA\_WoP#2

##### 6.8.1.3 FS\_eSBMA\_WoP#3

**S5-233329 pCR 28.925 Issues in 28.621**

*Type: pCR For: (not specified)  
 28.925 v0.10.0  
 Source: Ericsson*

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

**S5-233330 pCR 28.925 Proposal in 28.621**

*Type: pCR For: (not specified)  
 28.925 v0.10.0  
 Source: Ericsson*

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

**S5-233331 pCR 28.925 Issues in 28.622**

*Type: pCR For: (not specified)  
 28.925 v0.10.0  
 Source: Ericsson*

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

**S5-233332 pCR 28.925 Proposal in 28.622**

*Type: pCR For: (not specified)  
 28.925 v0.10.0  
 Source: Ericsson*

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

**S5-233333 pCR 28.925 Issues in 28.623**

*Type: pCR For: (not specified)  
 28.925 v0.10.0  
 Source: Ericsson*

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

**S5-233334 pCR 28.925 Proposal in 28.623**

*Type: pCR For: (not specified)  
 28.925 v0.10.0  
 Source: Ericsson GmbH, Eurolab*

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

##### 6.8.1.4 FS\_eSBMA\_WoP#4

##### 6.8.1.5 FS\_eSBMA\_WoP#5

**S5-233348 pCR 28.925 Add an example for management function deployment scenario**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: Huawei*

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

**S5-233461 pCR TR 28.925 Add overview for management service features supported by CRUD operations in SBMA**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: Huawei*

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

**S5-233479 pCR TR 28.925 update the example for management function deployment scenarios**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: Huawei*

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

##### 6.8.1.6 FS\_eSBMA\_WoP#6

**S5-233466 pCR TR 28.925 Add conclusion and recommendation for issue#6 software management feature in SBMA for 5G**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: Huawei*

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

##### 6.8.1.7 Draft TR 28.925

#### 6.8.2 Study on Basic SBMA enabler enhancements

##### 6.8.2.1 FS\_eSBMAe\_WoP#1

**S5-233398 pCR 28.831 Alarm Subscription and Notification Key Issue**

*Type: pCR For: Agreement  
 28.831 v0.6.0  
 Source: Samsung Electronics France SA*

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

##### 6.8.2.2 FS\_eSBMAe\_WoP#2

**S5-233284 Rel-18 CR 28.831 Add conclusion for issue 3 Definition of createMOI**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

##### 6.8.2.3 FS\_eSBMAe\_WoP#3

**S5-233264 Rel-18 pCR TR 28.831 Add a new key issue for Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233593**.

**S5-233593 Rel-18 pCR TR 28.831 Add a new key issue for Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233264)

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

**S5-233265 Rel-18 pCR TR 28.831 Add potential requirements for KI for Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233594**.

**S5-233594 Rel-18 pCR TR 28.831 Add potential requirements for KI for Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233265)

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

**S5-233266 Rel-18 pCR TR 28.831 Add a potential solution for KI for Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233267 Rel-18 pCR TR 28.831 Add a potential solution for the URI location for KI Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233268 Rel-18 pCR TR 28.831 Add a new key issue for Advertising notifications supported by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233285 Rel-18 CR 28.831 Add definition of HTTP error codes (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233286 Rel-18 CR 28.831 Improve description of error response body format (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233595**.

**S5-233595 Rel-18 CR 28.831 Improve description of error response body format (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233286)

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

**S5-233287 Rel-18 CR 28.831 Clarify definition of the type property (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233596**.

**S5-233596 Rel-18 CR 28.831 Clarify definition of the type property (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233287)

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

**S5-233288 Rel-18 CR 28.831 Clarify and restructure definition of the reason property for GET (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233597**.

**S5-233597 Rel-18 CR 28.831 Clarify and restructure definition of the reason property for GET (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233288)

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

**S5-233289 mRel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating attributes (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233598**.

**S5-233598 mRel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating attributes (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233289)

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

**S5-233290 Rel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating objects (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233599**.

**S5-233599 Rel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating objects (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233290)

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

**S5-233291 Rel-18 CR 28.831 Add clause on Error reasons for application layer errors (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233600**.

**S5-233600 Rel-18 CR 28.831 Add clause on Error reasons for application layer errors (error response format)**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233291)

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

**S5-233292 Rel-18 CR 28.831 Add key issue on node selection**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233601**.

**S5-233601 Rel-18 CR 28.831 Add key issue on node selection**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233292)

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

##### 6.8.2.4 FS\_eSBMAe\_WoP#4

**S5-233294 Rel-18 CR 28.831 Add CR proposal for issue 2 Targeted notification subscriptions**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233602**.

**S5-233602 Rel-18 CR 28.831 Add CR proposal for issue 2 Targeted notification subscriptions**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233294)

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

##### 6.8.2.5 FS\_eSBMAe\_WoP#5

**S5-233293 Rel-18 CR 28.831 Add key issue and solution on MnS versioning**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233603**.

**S5-233603 Rel-18 CR 28.831 Add key issue and solution on MnS versioning**

*Type: pCR For: Approval  
 28.831 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233293)

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

##### 6.8.2.6 FS\_eSBMAe\_WoP#6

##### 6.8.2.7 FS\_eSBMAe\_WoP#7

**S5-233393 pCR 28.831 Logging Solution**

*Type: pCR For: Agreement  
 28.831 v0.6.0  
 Source: Samsung Electronics France SA*

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

##### 6.8.2.8 FS\_eSBMAe\_WoP#8

##### 6.8.2.9 FS\_eSBMAe\_WoP#9

##### 6.8.2.10 FS\_eSBMAe\_WoP#10

##### 6.8.2.11 Draft TR 28.831

**S5-233686 Draft TR 28.831**

*Type: draft TR For: discussion  
 28.831 v0.7.0  
 Source: Nokia*

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

#### 6.8.3 Study on Management Aspects of URLLC

##### 6.8.3.1 FS\_URLLC\_Mgt\_WoP#1

**S5-233349 pCR 28.832 Correction of terminologies and missing references**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: Huawei*

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

##### 6.8.3.2 FS\_URLLC\_Mgt\_WoP#2

**S5-233501 Add New Solution for configuration of latency for URLLC in RAN**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

**Decision:** The document was **revised to S5-233604**.

**S5-233604 Add New Solution for configuration of latency for URLLC in RAN**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

(Replaces S5-233501)

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

**S5-233502 Add Conclusion and recommendation for issue#4**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

**Decision:** The document was **revised to S5-233605**.

**S5-233605 Add Conclusion and recommendation for issue#4**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

(Replaces S5-233502)

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

##### 6.8.3.3 FS\_URLLC\_Mgt\_WoP#3

**S5-233499 Add New Solution for URLLC performance management related to reliability**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

**Decision:** The document was **revised to S5-233636**.

**S5-233636 Add New Solution for URLLC performance management related to reliability**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

(Replaces S5-233499)

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

**S5-233500 Add New Solution for support for performance measurements related on URLLC resource load**

*Type: pCR For: Approval  
 28.832 v0.5.0  
 Source: China Unicom*

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

**S5-233511 Discussion on URLLC performance measurements related to resource load of URLLC services**

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

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

**S5-233512 Discussion on URLLC performance management related to reliability**

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

**Decision:** The document was **revised to S5-233606**.

**S5-233606 Discussion on URLLC performance management related to reliability**

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

(Replaces S5-233512)

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

##### 6.8.3.4 FS\_URLLC\_Mgt\_WoP#4

##### 6.8.3.5 Draft TR 28.832

**S5-233700 Draft TR 28.832**

*Type: draft TR For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

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

#### 6.8.4 Study on Management of Cloud Native Virtualized Network Functions

##### 6.8.4.1 FS\_MCVNF\_WoP#1

##### 6.8.4.2 FS\_MCVNF\_WoP#2

##### 6.8.4.3 FS\_MCVNF\_WoP#3

**S5-233350 pCR 28.834 Editorial cleanup**

*Type: pCR For: Approval  
 28.834 v1.0.0  
 Source: Huawei*

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

**S5-233351 pCR 28.834 Fix references**

*Type: pCR For: Approval  
 28.834 v1.0.0  
 Source: Huawei*

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

**S5-233352 pCR 28.834 Requirement cleanup**

*Type: pCR For: Approval  
 28.834 v1.0.0  
 Source: Huawei*

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

**S5-233353 pCR 28.834 Update recommendation for VNF package management**

*Type: pCR For: Approval  
 28.834 v1.0.0  
 Source: Huawei*

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

**S5-233490 pCR 28.834 Adding editorial changes**

*Type: pCR For: Approval  
 28.834 v0.5.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-233607**.

**S5-233607 pCR 28.834 Adding editorial changes**

*Type: pCR For: Approval  
 28.834 v0.5.0  
 Source: China Mobile Com. Corporation,Huawei*

(Replaces S5-233490)

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

##### 6.8.4.5 Draft TR 28.834

**S5-233489 Presentation sheet of TR 28.834 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.834 v0.5.0  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-233608**.

**S5-233608 Presentation sheet of TR 28.834 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.834 v0.5.0  
 Source: China Mobile Com. Corporation*

(Replaces S5-233489)

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

**S5-233685 Draft TR 28.834**

*Type: draft TR For: Approval  
 28.834 v1.1.0  
 Source: China Mobile*

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

#### 6.8.5 Study on Management Aspects of 5G MOCN Network Sharing Phase2

##### 6.8.5.1 FS\_MANS\_ph2\_WoP#1

**S5-233504 Modify service-based management architecture for MOCN and add conclusion for issue #4**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

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

**S5-233505 Modify potential solution and add conclusion for issue #5**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

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

**S5-233507 Modify description, solution and add conclusion on issue #1**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

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

**S5-233508 Modify description, solution and add conclusion on issue #3**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

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

**S5-233509 Add conclusion and recommendation for issue #2**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

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

**S5-233514 Discussion on way forward of Management Aspects of 5G Network Sharing Phase2**

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

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

##### 6.8.5.2 FS\_MANS\_ph2\_WoP#2

##### 6.8.5.3 FS\_MANS\_ph2\_WoP#3

##### 6.8.5.4 Draft TR 28.834

#### 6.8.6 Study on Management of Trace/MDT phase 2

##### 6.8.6.1 FS\_5GMDT\_Ph2\_WoP#1

##### 6.8.6.2 FS\_5GMDT\_Ph2\_WoP#2

##### 6.8.6.3 FS\_5GMDT\_Ph2\_WoP#3

##### 6.8.6.4 FS\_5GMDT\_Ph2\_WoP#4

##### 6.8.6.5 FS\_5GMDT\_Ph2\_WoP#5

##### 6.8.6.6 FS\_5GMDT\_Ph2\_WoP#6

**S5-233335 Rel-18 pCR 28.837 Problem Statement and solution on Management of MDT of MRO for inter-system handover for voice fallback**

*Type: pCR For: Approval  
 28.837 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233609**.

**S5-233609 Rel-18 pCR 28.837 Problem Statement and solution on Management of MDT of MRO for inter-system handover for voice fallback**

*Type: pCR For: Approval  
 28.837 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233335)

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

##### 6.8.6.7 FS\_5GMDT\_Ph2\_WoP#7

##### 6.8.6.8 FS\_5GMDT\_Ph2\_WoP#8

**S5-233336 Rel-18 pCR 28.837 Update on conclusions and recommendations**

*Type: pCR For: Approval  
 28.837 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

##### 6.8.6.9 Draft TR 28.837

**S5-233687 Draft TR 28.837**

*Type: draft TR For: Approval  
 28.837 v0.7.0  
 Source: Nokia*

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

#### 6.8.7 Study on Management Aspects of IoT NTN Enhancements

##### 6.8.7.1 FS\_IOT\_NTN\_WoP#1

**S5-233401 pCR 28.841 add use case for monitoring of satellite components**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: China Unicom*

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

**S5-233402 pCR 28.841 add potential requirements and solutions for monitoring of satellite components**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: China Unicom*

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

##### 6.8.7.2 FS\_IOT\_NTN\_WoP#2

##### 6.8.7.3 FS\_IOT\_NTN\_WoP#3

**S5-233403 pCR 28.841 update conclusion and recommendations**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: China Unicom*

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

**S5-233404 pCR 28.841 Rapporteur clean up**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: China Unicom*

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

**S5-233517 pCR 28.841 Editorial clean-up**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233610**.

**S5-233610 pCR 28.841 Editorial clean-up**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: CATT,Huawei*

(Replaces S5-233517)

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

##### 6.8.7.4 Draft TR 28.841

**S5-233362 pCR 28.841 Correction of reference number**

*Type: pCR For: Approval  
 28.841 v0.4.0  
 Source: Huawei*

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

**S5-233405 Presentation sheet of TR 28.841 for Approval**

*Type: TS or TR cover For: Approval  
 28.841 v0.4.0  
 Source: China Unicom*

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

**S5-233676 Draft TR 28.841**

*Type: draft TR For: Approval  
 28.841 v0.5.0  
 Source: China Unicom*

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

#### 6.8.8 Study on Data management phase 2

##### 6.8.8.1 FS\_MADCOL\_ph2\_WoP#1

**S5-233528 Add key issue on enhancing the description of management data**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, Microsift*

**Abstract:**

This pCR proposes a new key issue for TR28.842 to describe management data, especially PM data, in more detail (e.g. available granularity periods, available time in history, aggregation across elements or areas) in order to allow management producers to

**Decision:** The document was **revised to S5-233611**.

**S5-233611 Add key issue on enhancing the description of management data**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, Microsift*

(Replaces S5-233528)

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

**S5-233532 pCR TR 28.842 Solution for discovery of stored management data**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Microsoft Europe SARL*

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

##### 6.8.8.2 FS\_MADCOL\_ph2\_WoP#2

**S5-233337 Rel-18 pCR 28.842 KI on discovery of data collection capabilities**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233518 Rel-18 pCR TR 28.842 Add key issue for reporting of consolidated management data**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-233612**.

**S5-233612 Rel-18 pCR TR 28.842 Add key issue for reporting of consolidated management data**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Ericsson Inc.*

(Replaces S5-233518)

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

**S5-233531 pCR 28.842 solution for retrieval of stored management data**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Microsoft Europe SARL*

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

##### 6.8.8.3 FS\_MADCOL\_ph2\_WoP#3

##### 6.8.8.4 FS\_MADCOL\_ph2\_WoP#4

**S5-233281 pCR TR 28.842 add issue and potential solutions for external data management**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Huawei, Deutsche Telekom*

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

##### 6.8.8.5 Draft TR 28.842

**S5-233535 pCR TR 28.842 Correction -Adding missing reference**

*Type: pCR For: Approval  
 28.842 v0.2.0  
 Source: Microsoft Europe SARL*

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

**S5-233688 Draft TR 28.842**

*Type: draft TR For: Approval  
 28.842 v0.3.0  
 Source: Nokia*

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

### 6.9 Support of New Services

#### 6.9.1 Study on new aspects of EE for 5G networks Phase 2

##### 6.9.1.1 FS\_EE5G\_Ph2\_WoP#1

**S5-233238 pCR TR 28.913 KI#1 Consideration of four types of metrics to estimate VNF Energy Consumption**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Ericsson, AT&T, Deutsche Telekom*

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

**S5-233239 pCR 28.913 Conclusion for KI#2 Energy Consumption of containerized VNF/ VNFCs**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233614**.

**S5-233614 pCR 28.913 Conclusion for KI#2 Energy Consumption of containerized VNF/ VNFCs**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233239)

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

**S5-233240 pCR 28.913 Conclusion for KI#3 Energy Consumption of RAN nodes**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233615**.

**S5-233615 pCR 28.913 Conclusion for KI#3 Energy Consumption of RAN nodes**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233240)

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

**S5-233241 pCR 28.913 Conclusion for KI#4 EE KPI for V2X network slice**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233616**.

**S5-233616 pCR 28.913 Conclusion for KI#4 EE KPI for V2X network slice**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233241)

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

**S5-233247 pCR 28.913 Conclusion for KI#6 EE KPI for URLLC network slice based on reliability**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei Technologies France*

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

**S5-233248 pCR 28.913 Conclusion for KI#7 Roles involved in EE KPI building**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233617**.

**S5-233617 pCR 28.913 Conclusion for KI#7 Roles involved in EE KPI building**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233248)

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

**S5-233498 Add New Key issue and solution for Energy Efficiency of URLLC network slice- RAN based**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: China Unicom*

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

**S5-233503 Add potential solution for Energy Efficiency KPI of URLLC Network Slice based on both latency and reliability**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: China Unicom*

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

**S5-233536 Rel-18 pCR 28.913 Add Conclusion and Recommendation for Key Issue 6**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Samsung Electronics Nordic AB*

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

##### 6.9.1.2 FS\_EE5G\_Ph2\_WoP#2

**S5-233242 pCR 28.913 Conclusion for KI#5 Customer acceptance for QoS degradation to save energy**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233618**.

**S5-233618 pCR 28.913 Conclusion for KI#5 Customer acceptance for QoS degradation to save energy**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233242)

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

**S5-233249 pCR 28.913 Conclusion for KI#9 RAN energy saving when using backup batteries**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233619**.

**S5-233619 pCR 28.913 Conclusion for KI#9 RAN energy saving when using backup batteries**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233249)

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

**S5-233250 pCR 28.913 Solution and conclusion for KI#10 Digital sobriety**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-233620**.

**S5-233620 pCR 28.913 Solution and conclusion for KI#10 Digital sobriety**

*Type: pCR For: Approval  
 28.913 v0.5.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233250)

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

##### 6.9.1.3 Draft TR 28.913

**S5-233651 Draft TR 28.913**

*Type: draft TR For: Approval  
 28.913 v0.6.0  
 Source: Huawei*

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

#### 6.9.2 Study on Network and Service Operations for Energy Utilities

##### 6.9.2.1 FS\_NSOEU\_WoP#1

**S5-233366 Discussion on Requirements in TR 28.829**

*Type: discussion For: Agreement  
 Source: Nokia*

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

##### 6.9.2.2 FS\_NSOEU\_WoP#2

##### 6.9.2.3 FS\_NSOEU\_WoP#3

**S5-233369 Rel-18 pCR 28.829 – Update 6.4**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

**S5-233370 Rel-18 pCR 28.829 – Update 6.5**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

##### 6.9.2.4 FS\_NSOEU\_WoP#4

##### 6.9.2.5 FS\_NSOEU\_WoP#5

##### 6.9.2.6 FS\_NSOEU\_WoP#6

**S5-233371 Rel-18 pCR 28.829 – Update 6.6**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

**S5-233372 Rel-18 pCR 28.829 – Update 6.7**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

##### 6.9.2.7 FS\_NSOEU\_WoP#7

##### 6.9.2.8 FS\_NSOEU\_WoP#8

**S5-233367 Rel-18 pCR 28.829 – Update 6.8**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

**S5-233368 Rel-18 pCR 28.829 – Update 6.9**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

##### 6.9.2.9 FS\_NSOEU\_WoP#9

**S5-233373 Rel-18 pCR 28.829 – Update 6.8**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

**S5-233374 Rel-18 pCR 28.829 – Update 6.9**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

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

##### 6.9.2.10 FS\_NSOEU\_WoP#10

**S5-233233 Rel-18 pCR 28.829 – Potential Solution for Energy utility and telecommunication coordinated rapid recovery of energy service**

*Type: pCR For: Approval  
 28.829 v1.0.0  
 Source: Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT*

**Abstract:**

This document proposes the potential solution for the Key Issue of Energy utility and telecommunication coordinated recovery of energy service outage as mentioned in clause 6.8 and 6.9 of TR 28.829 [2].

**Decision:** The document was **revised to S5-233621**.

**S5-233621 Rel-18 pCR 28.829 – Potential Solution for Energy utility and telecommunication coordinated rapid recovery of energy service**

*Type: pCR For: Approval  
 28.829 v1.0.0  
 Source: Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT*

(Replaces S5-233233)

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

**S5-233375 Rel-18 pCR 28.829 – authorization**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-233622**.

**S5-233622 Rel-18 pCR 28.829 – authorization**

*Type: pCR For: Agreement  
 28.829 v1.0.0  
 Source: Nokia*

(Replaces S5-233375)

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

##### 6.9.2.11 FS\_NSOEU\_WoP#11

##### 6.9.2.12 FS\_NSOEU\_WoP#12

##### 6.9.2.13 FS\_NSOEU\_WoP#13

**S5-233234 Rel-18 pCR 28.829 – Clean up**

*Type: pCR For: Approval  
 28.829 v1.0.0  
 Source: Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT*

**Abstract:**

This document cleans up TR 28.829. In addition to some editorial clean up, the following remaining editor's notes are resolved.

**Decision:** The document was **revised to S5-233623**.

**S5-233623 Rel-18 pCR 28.829 – Clean up**

*Type: pCR For: Approval  
 28.829 v1.0.0  
 Source: Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT*

(Replaces S5-233234)

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

##### 6.9.2.14 Draft TR 28.829

**S5-233235 Presentation of Report to TSG: TR 28.829, Version 1.1.0**

*Type: TS or TR cover For: Approval  
 28.829 v1.0.0  
 Source: Samsung (Rapporteur)*

**Abstract:**

This is the cover sheet to send TR 28.829 to TSG SA 100 for approval.

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

**S5-233705 Draft TR 28.829**

*Type: draft TR For: Approval  
 28.829 v1.1.0  
 Source: Samsung*

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

#### 6.9.3 Study on Key Quality Indicators (KQIs)for 5G service experience

##### 6.9.3.1 FS\_KQI\_5G\_WoP#1

**S5-233469 pCR TR 28.863 Issue1 definition of KQI**

*Type: pCR For: Approval  
 28.863 v0.5.0  
 Source: Huawei*

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

##### 6.9.3.2 FS\_KQI\_5G\_WoP#2

##### 6.9.3.3 FS\_KQI\_5G\_WoP#3

**S5-233470 pCR TR 28.863 Issue 3 Solution of KQIs for Video Uploading**

*Type: pCR For: Approval  
 28.863 v0.5.0  
 Source: Huawei*

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

##### 6.9.3.4 FS\_KQI\_5G\_WoP#4

**S5-233471 pCR TR 28.863 Issue4 definition of Remote controll**

*Type: pCR For: Approval  
 28.863 v0.5.0  
 Source: Huawei*

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

##### 6.9.3.5 FS\_KQI\_5G\_WoP#5

##### 6.9.3.6 Draft TR 28.863

**S5-233664 Draft TR 28.863**

*Type: draft TR For: Approval  
 28.863 v0.6.0  
 Source: Huawei*

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

#### 6.9.4 Study on Deterministic Communication Service Assurance

##### 6.9.4.1 FS\_DCSA\_WoP#1

##### 6.9.4.2 FS\_DCSA\_WoP#2

**S5-233493 pCR TR 28.865 Report of reliability capability information**

*Type: pCR For: Approval  
 28.865 v0.4.0  
 Source: Huawei*

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

**S5-233494 pCR TR 28.865 Add description on reliability analysis**

*Type: pCR For: Approval  
 28.865 v0.4.0  
 Source: Huawei*

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

##### 6.9.4.3 FS\_DCSA\_WoP#3

##### 6.9.4.4 FS\_DCSA\_WoP#4

##### 6.9.4.5 FS\_DCSA\_WoP#5

##### 6.9.4.6 Draft TR 28.863

#### 6.9.5 Study on management aspects of network slice management capability exposure

##### 6.9.5.1 FS\_NSCE\_WoP#1

**S5-233386 pCR TR 28.824 clean-up**

*Type: pCR For: Approval  
 28.824 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233626**.

**S5-233626 pCR TR 28.824 clean-up**

*Type: pCR For: Approval  
 28.824 v1.1.0  
 Source: Huawei*

(Replaces S5-233386)

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

**S5-233387 pCR TR 28.824 Add conclusion and recommendation for network slice management capability exposure via CAPIF**

*Type: pCR For: Approval  
 28.824 v1.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233627**.

**S5-233627 pCR TR 28.824 Add conclusion and recommendation for network slice management capability exposure via CAPIF**

*Type: pCR For: Approval  
 28.824 v1.1.0  
 Source: Huawei*

(Replaces S5-233387)

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

##### 6.9.5.2 FS\_NSCE\_WoP#2

##### 6.9.5.3 FS\_NSCE\_WoP#3

##### 6.9.5.4 FS\_NSCE\_WoP#4

**S5-233354 pCR 28.824 Improve discovery solution**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: Huawei*

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

**S5-233355 pCR 28.824 Improve description of exposure governance**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: Huawei*

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

**S5-233478 pCR TR 28.824 Add conclusion and recommendation for filtering**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233628**.

**S5-233628 pCR TR 28.824 Add conclusion and recommendation for filtering**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: Huawei*

(Replaces S5-233478)

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

##### 6.9.5.5 Draft TR 28.824

**S5-233356 pCR 28.824 Correction of termiologies**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233629**.

**S5-233629 pCR 28.824 Correction of termiologies**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: Huawei*

(Replaces S5-233356)

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

**S5-233483 pCR 28.824 Remove the EN about exposed management services**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-233630**.

**S5-233630 pCR 28.824 Remove the EN about exposed management services**

*Type: pCR For: Approval  
 28.824 v0.10.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-233483)

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

**S5-233690 Draft TR 28.824**

*Type: draft TR For: Approval  
 28.824 v0.11.0  
 Source: Alibaba*

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

#### 6.9.6 Study on alignment with ETSI MEC for Edge computing management

##### 6.9.6.1 FS\_MEC\_ECM\_WoP#1

##### 6.9.6.2 FS\_MEC\_ECM\_WoP#2

**S5-233283 pCR 28.903 Add KI and solution for dynamic EAS scaling**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: AsiaInfo,Huawei*

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

**S5-233357 pCR 28.903 Add recommendation for resource reservation related issue**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233631**.

**S5-233631 pCR 28.903 Add recommendation for resource reservation related issue**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

(Replaces S5-233357)

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

**S5-233358 pCR 28.903 Add recommendation for SLA related issue**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233632**.

**S5-233632 pCR 28.903 Add recommendation for SLA related issue**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

(Replaces S5-233358)

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

**S5-233359 pCR 28.903 Add recommendation for management for alignement with ETSI MEC**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

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

**S5-233360 pCR 28.903 Add recommendation for application resource catalogue related issue**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

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

**S5-233361 pCR 28.903 Add solution for virtual resource related issue**

*Type: pCR For: Approval  
 28.903 v0.5.0  
 Source: Huawei*

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

**S5-233395 pCR 28.903 Federated EAS Management**

*Type: pCR For: Agreement  
 28.903 v0.5.0  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-233633**.

**S5-233633 pCR 28.903 Federated EAS Management**

*Type: pCR For: Agreement  
 28.903 v0.5.0  
 Source: Samsung Electronics France SA*

(Replaces S5-233395)

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

**S5-233396 pCR 28.903 Federation Management**

*Type: pCR For: Agreement  
 28.903 v0.5.0  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-233634**.

**S5-233634 pCR 28.903 Federation Management**

*Type: pCR For: Agreement  
 28.903 v0.5.0  
 Source: Samsung Electronics France SA*

(Replaces S5-233396)

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

**S5-233397 pCR 28.903 EAS Mobility**

*Type: pCR For: Agreement  
 28.903 v0.5.0  
 Source: Samsung Electronics France SA*

**Decision:** The document was **revised to S5-233635**.

**S5-233635 pCR 28.903 EAS Mobility**

*Type: pCR For: Agreement  
 28.903 v0.5.0  
 Source: Samsung Electronics France SA*

(Replaces S5-233397)

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

##### 6.9.6.3 Draft TR 28.903

**S5-233667 Draft TR 28.903**

*Type: draft TR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

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

## 7 Charging

### 7.1 Charging Plenary

**S5-233184 CH agenda and time plan**

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

**Decision:** The document was **revised to S5-233643**.

**S5-233643 CH agenda and time plan**

*Type: agenda For: -  
 Source: WG vice Chair (Matrixx Software)*

(Replaces S5-233184)

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

**S5-233185 Collection of useful endorsed document and external communication documents**

*Type: discussion For: (not specified)  
 Source: Huawei*

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

**S5-233186 Charging exec report**

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

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

**S5-233195 Resubmitted LS out Rel17 Reply LS on Enhancement on Charging Identifier Uniqueness Mechanism**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-225411*

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

**S5-233207 LS on charging aspects for Ranging/Sidelink Positioning**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2303231*

**Decision:** The document was **replied to in S5-233655**.

**S5-233655 Reply to: LS on charging aspects for Ranging/Sidelink Positioning**

*Type: LS out For: approval  
 to SA2  
 Source: current meeting*

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

**S5-233542 LS on Slice based (wholesale) differentiation and charging in roaming**

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

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

### 7.2 New Charging Work Item proposals

**S5-233363 Discussion paper on Charging Aspects of NG\_RTC**

*Type: discussion For: Discussion  
 Source: China Mobile*

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

**S5-233364 New WID on Charging Aspects of Next Generation Real time Communication services**

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

**Decision:** The document was **revised to S5-233661**.

**S5-233661 New WID on Charging Aspects of IMS Data Channel**

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

(Replaces S5-233364)

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

**S5-233460 New SID on Charging Aspects of Ranging and Sidelink Positioning**

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

**Abstract:**

This study item is to investigate the charging aspects for Ranging based services and Sidelink Positioning.

**Decision:** The document was **revised to S5-233662**.

**S5-233662 New SID on Charging Aspects of Ranging and Sidelink Positioning**

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

(Replaces S5-233460)

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

**S5-233462 New WID on Charging Aspects for 5G Multicast-broadcast Services**

*Type: WID new For: Approval  
 Source: China Mobile M2M Company Ltd.*

**Decision:** The document was **revised to S5-233671**.

**S5-233671 New WID on Charging Aspects for 5G Multicast-broadcast Services**

*Type: WID new For: Approval  
 Source: China Mobile M2M Company Ltd.*

(Replaces S5-233462)

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

**S5-233463 Discussion paper on charging enhancements for 5MBS**

*Type: discussion For: Information  
 Source: China Mobile M2M Company Ltd.*

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

### 7.3 Charging Maintenance and Rel-18 small Enhancements

**S5-233251 Rel-17 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.257 v17.2.0 CR-0005 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-233694**.

**S5-233694 Rel-17 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.257 v17.2.0 CR-0005 rev 1 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-233251)

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

**S5-233252 Rel-18 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.257 v17.2.0 CR-0006 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233253 Rel-17 CR 32.257 Add Usage Volume in EAS Infrastructure Usage Charging Info**

*Type: CR For: Approval  
 32.257 v17.2.0 CR-0007 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233254 Rel-18 CR 32.257 Add Usage Volume in EAS Infrastructure Usage Charging Infon**

*Type: CR For: (not specified)  
 32.257 v17.2.0 CR-0008 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233255 Rel-17 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.291 v17.6.0 CR-0466 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-233695**.

**S5-233695 Rel-17 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.291 v17.6.0 CR-0466 rev 1 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-233255)

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

**S5-233256 Rel-18 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.291 v18.1.0 CR-0467 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-233696**.

**S5-233696 Rel-18 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.291 v18.1.0 CR-0467 rev 1 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-233256)

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

**S5-233257 Rel-17 CR 32.291 Update EAS Infrastructure Usage Charging Information**

*Type: CR For: Approval  
 32.291 v17.6.0 CR-0468 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233258 Rel-18 CR 32.291 Update EAS Infrastructure Usage Charging Information**

*Type: CR For: Approval  
 32.291 v18.1.0 CR-0469 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233259 Rel-17 32.298 Add LCM Event Type to EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.298 v17.6.0 CR-0929 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-233697**.

**S5-233697 Rel-17 32.298 Add LCM Event Type to EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.298 v17.6.0 CR-0929 rev 1 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-233259)

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

**S5-233260 Rel-18 32.298 Add LCM Event Type to EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.298 v18.1.0 CR-0930 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-233698**.

**S5-233698 Rel-18 32.298 Add LCM Event Type to EAS Deployment Charging Info**

*Type: CR For: Approval  
 32.298 v18.1.0 CR-0930 rev 1 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-233260)

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

**S5-233261 Rel-17 CR 32.298 Update EAS Infrastructure Usage Charging Information**

*Type: CR For: Approval  
 32.298 v17.6.0 CR-0931 Cat: F (Rel-17)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233262 Rel-18 CR 32.298 Update EAS Infrastructure Usage Charging Information**

*Type: CR For: Approval  
 32.298 v18.1.0 CR-0932 Cat: A (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-233295 Rel-17 CR 32.298 Correction of NetworkFunctionality civicLocation**

*Type: CR For: Agreement  
 32.298 v17.6.0 CR-0933 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-233296 Rel-18 CR 32.298 Correction of mMSChargingInformation NetworkFunctionality civicLocation**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0934 Cat: F (Rel-18)  
  
 Source: Ericsson LM*

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

**S5-233297 Rel-17 CR 32.291 Correction of requested units**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0470 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-233298 Rel-18 CR 32.291 Correction of requested units**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0471 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

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

**S5-233299 DP Use of QBC and FBC**

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

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

**S5-233300 DP Use of Charging Characteristics**

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

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

**S5-233301 DP Use of AMF charging profile**

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

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

**S5-233448 Correction the charging principle for alignment**

*Type: CR For: Agreement  
 32.257 v17.2.0 CR-0009 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-233689**.

**S5-233689 Correction the charging principle for alignment**

*Type: CR For: Agreement  
 32.257 v17.2.0 CR-0009 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233448)

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

**S5-233449 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0457 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-233450 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0458 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-233451 Addition of the Triggers in the CHF CDR**

*Type: CR For: Agreement  
 32.298 v17.6.0 CR-0935 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-233452 Addition of the Triggers in the CHF CDR**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0936 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-233519 Rel-18 CR 32.260 IMS Charging Diagnostics**

*Type: CR For: Agreement  
 32.260 v17.5.0 CR-0430 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233682**.

**S5-233682 Rel-18 CR 32.260 IMS Charging Diagnostics**

*Type: CR For: Agreement  
 32.260 v17.5.0 CR-0430 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233519)

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

**S5-233520 Rel-18 CR 32.291 IMS Charging Diagnostics**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0472 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233683**.

**S5-233683 Rel-18 CR 32.291 IMS Charging Diagnostics**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0472 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233520)

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

**S5-233521 Rel-18 CR 32.298 IMS Charging Diagnostics**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0937 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233684**.

**S5-233684 Rel-18 CR 32.298 IMS Charging Diagnostics**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0937 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233521)

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

**S5-233654 DP Use of QBC and FBC**

*Type: discussion For: discussion  
 Source: Ericsson*

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

### 7.4 Rel-18 Charging

#### 7.4.1 Charging Aspects of Network Slicing Phase 2

**S5-233376 Rel-18 pCR 28.203 Introduce Architecture**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

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

**S5-233377 Rel-18 pCR 28.203 Introduce charging principles**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-233658**.

**S5-233658 Rel-18 pCR 28.203 Introduce charging principles**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

(Replaces S5-233377)

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

**S5-233378 Rel-18 pCR 28.203 Introduce charging scenarios principles**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-233659**.

**S5-233659 Rel-18 pCR 28.203 Introduce charging scenarios principles**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

(Replaces S5-233378)

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

**S5-233379 Rel-18 pCR 28.203 Introduce triggers**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-233660**.

**S5-233660 Rel-18 pCR 28.203 Introduce triggers**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

(Replaces S5-233379)

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

**S5-233380 Rel-18 pCR 28.203 Introduce NSACF charging profile**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

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

**S5-233407 Rel-18 pCR 28.203 Introduce message flows**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-233657**.

**S5-233657 Rel-18 pCR 28.203 Introduce message flows**

*Type: pCR For: Approval  
 28.203 v0.1.0  
 Source: MATRIXX Software*

(Replaces S5-233407)

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

**S5-233644 Draft TS 28.203**

*Type: draft TS For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

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

#### 7.4.2 Charging Aspects for NSSAA

**S5-233219 Rel-18 TS 28.204 v0.0.0 Initial skeleton**

*Type: draft TS For: Approval  
 28.204 v0.0.0  
 Source: MATRIXX Software*

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

**S5-233220 Rel-18 pCR 28.204 Introduction of the Reference**

*Type: pCR For: Approval  
 28.204 v0.0.0  
 Source: MATRIXX Software*

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

**S5-233221 Rel-18 pCR 28.204 Introduction of the Scope**

*Type: pCR For: Approval  
 28.204 v0.0.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-233656**.

**S5-233656 Rel-18 pCR 28.204 Introduction of the Scope**

*Type: pCR For: Approval  
 28.204 v0.0.0  
 Source: MATRIXX Software*

(Replaces S5-233221)

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

**S5-233222 Rel-18 pCR 28.204 Introduction of the Terms**

*Type: pCR For: Approval  
 28.204 v0.0.0  
 Source: MATRIXX Software*

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

**S5-233223 Rel-18 pCR 28.203 Introduction of the Abbreviations**

*Type: pCR For: Approval  
 28.204 v0.0.0  
 Source: MATRIXX Software*

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

#### 7.4.3 Charging Aspects for Enhanced Support of Non-Public Networks

#### 7.4.4 CHF Distributed Availability

**S5-233453 DP on CHF Distributed Deployment Availability**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-233454 An Architecture for CHF Distributed Availability in Migration Mode**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0459 Cat: B (Rel-18)  
  
 Source: Huawei*

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

**S5-233455 An Architecture for CHF Distributed Availability in Multiple Backup Mode**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0460 Cat: B (Rel-18)  
  
 Source: Huawei*

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

**S5-233645 Draft TS 28.204**

*Type: draft TS For: Approval  
 28.204 v0.1.0  
 Source: MATRIXX Software*

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

### 7.5 Charging studies

#### 7.5.1 Study on Nchf charging services phase 2

**S5-233302 Rel-18 pCR 28.826 Adding service identifier based solution to clause 5.3**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

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

**S5-233303 Rel-18 pCR 28.826 Updating cancelling using charging session identifier clause 5.4**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233691**.

**S5-233691 Rel-18 pCR 28.826 Updating cancelling using charging session identifier clause 5.4**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

(Replaces S5-233303)

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

**S5-233304 Rel-18 pCR 28.826 Correcting use cases and key issues in clause 6.2**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233666**.

**S5-233666 Rel-18 pCR 28.826 Correcting use cases and key issues in clause 6.2**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

(Replaces S5-233304)

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

**S5-233305 Rel-18 pCR 28.826 New solutions for documenting binding in clause 6.3**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233681**.

**S5-233681 Rel-18 pCR 28.826 New solutions for documenting binding in clause 6.3**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

(Replaces S5-233305)

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

**S5-233306 Rel-18 pCR 28.826 New solutions for CDR handling in clause 6.3**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233715**.

**S5-233715 Rel-18 pCR 28.826 New solutions for CDR handling in clause 6.3**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

(Replaces S5-233306)

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

**S5-233307 Rel-18 pCR 28.826 New use case for containers exceeds message limit in clause 5.3**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

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

**S5-233412 Rel-18 pCR 28.826 Add the solution for reporting depending on the triggers**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

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

**S5-233413 Rel-18 pCR 28.826 Add the evaluation for charging reporting**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

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

**S5-233414 Rel-18 pCR 28.826 Add the solution for the undefined CDR**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233701**.

**S5-233701 Rel-18 pCR 28.826 Add the solution for the undefined CDR**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

(Replaces S5-233414)

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

**S5-233415 Rel-18 pCR 28.826 Update the evaluation for CHF rating**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

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

**S5-233416 Rel-18 pCR 28.826 Update the evaluation for non-blocking mode control**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

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

**S5-233417 Rel-18 pCR 28.826 Update the evaluation for the cancelling**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233699**.

**S5-233699 Rel-18 pCR 28.826 Update the evaluation for the cancelling**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

(Replaces S5-233417)

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

**S5-233418 Rel-18 pCR 28.826 Update the evaluation for the charging accuracy**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

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

**S5-233419 Rel-18 pCR 28.826 Update the key issue, evaluation and conclusion in the clause 6**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233702**.

**S5-233702 Rel-18 pCR 28.826 Update the key issue, evaluation and conclusion in the clause 6**

*Type: pCR For: Agreement  
 28.826 v1.3.0  
 Source: Huawei*

(Replaces S5-233419)

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

**S5-233482 Rel-18 pCR 28.826 Adding use case and key issue on handling of PEC and IEC triggers**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Ericsson LM*

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

**S5-233522 Rel-18 pCR 28.826 Solution #1.15 Trigger**

*Type: pCR For: Approval  
 28.826 v1.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233646 Draft TR 28.826**

*Type: draft TR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson*

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

**S5-233653 DP on Cancelling solutions**

*Type: discussion For: discussion  
 Source: Huawei*

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

#### 7.5.2 Study on 5G roaming charging architecture for wholesale and retail scenarios

**S5-233308 Rel-18 pCR 28.827 Correcting key issue for solution 1.4**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233716**.

**S5-233716 Rel-18 pCR 28.827 Correcting key issue for solution 1.4**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

(Replaces S5-233308)

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

**S5-233309 Rel-18 pCR 28.827 Adding conclusion in clause 7.1**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233675**.

**S5-233675 Rel-18 pCR 28.827 Adding conclusion in clause 7.1**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

(Replaces S5-233309)

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

**S5-233310 Rel-18 pCR 28.827 New solution in clause 7.2 Roaming charging profile update CHF-to-CHF**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

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

**S5-233311 Rel-18 pCR 28.827 Updating evaluation and conclusion in clause 7.2**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233674**.

**S5-233674 Rel-18 pCR 28.827 Updating evaluation and conclusion in clause 7.2**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

(Replaces S5-233311)

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

**S5-233312 Rel-18 pCR 28.827 Adding conclusion in clause 7.3**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

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

**S5-233313 Rel-18 pCR 28.827 New solution trigger of CHF-to-CHF interaction for clause 7.4**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

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

**S5-233314 Rel-18 pCR 28.827 Adding conclusion in clause 7.4**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233677**.

**S5-233677 Rel-18 pCR 28.827 Adding conclusion in clause 7.4**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

(Replaces S5-233314)

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

**S5-233315 Rel-18 pCR 28.827 Adding conclusion in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

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

**S5-233316 Rel-18 pCR 28.827 Adding user reporting solution in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

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

**S5-233317 Rel-18 pCR 28.827 Adding conclusion in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

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

**S5-233318 Rel-18 pCR 28.827 Updating the conclusion**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-233680**.

**S5-233680 Rel-18 pCR 28.827 Updating the conclusion**

*Type: pCR For: Approval  
 28.827 v1.7.0  
 Source: Ericsson LM*

(Replaces S5-233318)

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

**S5-233420 Rel-18 pCR 28.827 Clarify Solution #2.10 for charging session between V-CHF and H-CHF per UE**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233692**.

**S5-233692 Rel-18 pCR 28.827 Clarify Solution #2.10 for charging session between V-CHF and H-CHF per UE**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

(Replaces S5-233420)

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

**S5-233421 Rel-18 pCR 28.827 Add Solution #2.x for charging session between V-CHF and H-CHF per PDU session**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233422 Rel-18 pCR 28.827 Clarify Solution #2.11 for charging message exchange between V-CHF and H-CHF per charging data request**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233693**.

**S5-233693 Rel-18 pCR 28.827 Clarify Solution #2.11 for charging message exchange between V-CHF and H-CHF per charging data request**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

(Replaces S5-233422)

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

**S5-233423 Rel-18 pCR 28.827 Add Solution #2.y for charging message exchange between V-CHF and H-CHF based on quota management**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233424 Rel-18 pCR 28.827 Update evaluation for key issue #2e in clause 7.2**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233425 Rel-18 pCR 28.827 Add evaluation and conclusion for Solution #2.17**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233426 Rel-18 pCR 28.827 Update conclusion for clause 7.2**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233427 Rel-18 pCR 28.827 Fix error in Solution #1.4**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233428 Rel-18 pCR 28.827 Update evaluation for key issue #1e in clause 7.1**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233429 Rel-18 pCR 28.827 Add conclusion for clause 7.1**

*Type: pCR For: Agreement  
 28.827 v1.7.0  
 Source: Huawei*

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

**S5-233647 Draft TR 28.827**

*Type: draft TR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson*

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

#### 7.5.3 Study on Time Sensitive Networking charging

**S5-233430 Rel18 pCR TR 28.839 Clarificatin on the solution the Network Exposure Charging**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

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

**S5-233431 Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge configuration**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

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

**S5-233432 Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233703**.

**S5-233703 Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

(Replaces S5-233432)

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

**S5-233433 Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management and configuration**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233704**.

**S5-233704 Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management and configuration**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

(Replaces S5-233433)

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

**S5-233434 Rel18 pCR TR 28.839 Addition of the solution for the Enablers for TSC and TS Charging**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

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

**S5-233435 Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN station**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233706**.

**S5-233706 Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN station**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

(Replaces S5-233435)

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

**S5-233436 Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN system**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233707**.

**S5-233707 Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN system**

*Type: pCR For: Agreement  
 28.839 v0.5.0  
 Source: Huawei*

(Replaces S5-233436)

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

**S5-233648 Draft TR 28.839**

*Type: draft TR For: Approval  
 28.839 v0.6.0  
 Source: Huawei*

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

#### 7.5.4 Study on CHF Segmentation

**S5-233523 Rel-18 pCR 28.840 Document Structure Update**

*Type: pCR For: Approval  
 28.840 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233668**.

**S5-233668 Rel-18 pCR 28.840 Document Structure Update**

*Type: pCR For: Approval  
 28.840 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233523)

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

**S5-233530 pCR TR 28.840 Abbreviations chapter Update**

*Type: pCR For: Approval  
 28.840 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233678**.

**S5-233678 pCR TR 28.840 Abbreviations chapter Update**

*Type: pCR For: Approval  
 28.840 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233530)

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

**S5-233533 pCR TR 28.840 Symbols chapter Update**

*Type: pCR For: Approval  
 28.840 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233534 Draft TR 28.840**

*Type: draft TR For: Approval  
 28.840 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 7.5.5 Study on Structure of Charging for Verticals

**S5-233437 Rel18 pCR TR28.843 Addition of solution in the skeleton**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233438 Rel18 pCR TR28.843 Addition of the Terms**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233439 Rel18 pCR TR28.843 Addition of the Key issues about architecture mapping**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233708**.

**S5-233708 Rel18 pCR TR28.843 Addition of the Key issues about architecture mapping**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

(Replaces S5-233439)

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

**S5-233440 Rel18 pCR TR28.843 Addition of the Key issues about charging principles clarification**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-233709**.

**S5-233709 Rel18 pCR TR28.843 Addition of the Key issues about charging principles clarification**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

(Replaces S5-233440)

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

**S5-233441 Rel18 pCR TR28.843 Addition of the solution about Charging System selection**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233442 Rel18 pCR TR28.843 Addition of the solution about CHFs Interaction**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233443 Rel18 pCR TR28.843 Addition of the solution about Converged charging architecture**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233444 Rel18 pCR TR28.843 Addition of the solution about Converged Vertical charging architecture**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233445 Rel18 pCR TR28.843 Addition of the solution about Independent vertical charging architecture**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233446 Rel18 pCR TR28.843 Addition of the solution about New TS for the charging architecture and Pinciples**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233447 Rel18 pCR TR28.843 Addition of the solution about Restructure for the vertical charging**

*Type: pCR For: Agreement  
 28.843 v0.1.0  
 Source: Huawei*

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

**S5-233649 Draft TR 28.843**

*Type: draft TR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

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

#### 7.5.6 Study on charging aspects of Satellite in 5GS

**S5-233484 Introduction of general background and satellite access architecture and functionality**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233673**.

**S5-233673 Introduction of general background and satellite access architecture and functionality**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

(Replaces S5-233484)

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

**S5-233485 Introduction of satellite backhaul architecture and functionality**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

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

**S5-233486 Introduction of charging modes**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233669**.

**S5-233669 Introduction of charging modes**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

(Replaces S5-233486)

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

**S5-233487 Add charging scenarios and key issues for Satellite access on converged charging for access connection**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233672**.

**S5-233672 Add charging scenarios and key issues for Satellite access on converged charging for access connection**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

(Replaces S5-233487)

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

**S5-233488 Add charging scenarios and key issues for Satellite backhaul on converged charging for data connection**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

**Decision:** The document was **revised to S5-233670**.

**S5-233670 Add charging scenarios and key issues for Satellite backhaul on converged charging for data connection**

*Type: pCR For: Agreement  
 28.844 v0.1.0  
 Source: CATT*

(Replaces S5-233488)

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

**S5-233650 Draft TR 28.844**

*Type: draft TR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

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

## 8 Any Other Business

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-233176 | Agenda | WG Chair | approved |  |  |
| S5-233177 | IPR and legal declaration | WG Chair | noted |  |  |
| S5-233178 | Report from last SA5 meeting | MCC | approved |  |  |
| S5-233179 | Post e-meeting email approval status | WG Chair | available |  |  |
| S5-233180 | OAM&P action list | WG Vice Chair (Huawei) | noted |  |  |
| S5-233181 | agenda\_with\_Tdocs\_sequence\_proposal\_OAM | WG Vice Chair (Huawei) | noted |  |  |
| S5-233182 | OAM Exec Report | WG Vice Chair (Huawei) | reserved |  |  |
| S5-233183 | OAM Chair notes and conclusions | WG Chair | available |  |  |
| S5-233184 | CH agenda and time plan | WG vice Chair (Matrixx Software) | revised |  | S5-233643 |
| S5-233185 | Collection of useful endorsed document and external communication documents | Huawei | noted |  |  |
| S5-233186 | Charging exec report | WG vice Chair (Matrixx Software) | noted |  |  |
| S5-233187 | SA5 working procedures | WG Chair | approved |  |  |
| S5-233188 | Collection of Rel-18 3GPP SA5 OAM WoP | WG Vice Chair (Huawei) | noted |  |  |
| S5-233189 | Living document for stage 2-3 alignment | WG Chair | withdrawn |  |  |
| S5-233190 | Process for management of draft TS-TRs | WG Chair | noted |  |  |
| S5-233191 | SA5 meeting calendar | WG Chair | revised |  | S5-233553 |
| S5-233192 | Time Plan for OAM&P sessions | WG Chair | withdrawn |  |  |
| S5-233193 | SA5#148e E-Meeting Process | WG Chair | revised |  | S5-233584 |
| S5-233194 | TM Forum Liaison: Update on TM Forum Intent Management API and Ontologies – Connector model and 3GPP connector mode | TM Forum | replied to |  |  |
| S5-233195 | Resubmitted LS out Rel17 Reply LS on Enhancement on Charging Identifier Uniqueness Mechanism | C4-225411 | postponed |  |  |
| S5-233196 | Resubmitted LS on Performance measurement for AI/ML | S2-2211428 | replied to |  |  |
| S5-233197 | LS on the new work item Y.Arch\_NGNe\_ncp ""Architectural evolution of NGN control plane by applying SDN technology"" | ITU-T SG13 | noted |  |  |
| S5-233198 | LS on the consent of draft new Recommendation ITU-T Y.3183 (ex. ITU-T Y.ML-IMT2020-VNS): ""Framework for network slicing management assisted by machine learning leveraging QoE feedback from verticals"" | ITU-T SG13 | postponed |  |  |
| S5-233199 | Resubmitted LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S2-2301465 | replied to |  |  |
| S5-233200 | Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR | O-RAN | replied to |  |  |
| S5-233201 | Reply LS ccSA5 on 5G capabilities exposure for factories of the future – identified gaps (5G-ACIA-LS-2022-005 / S2-2302175) | S2-2303304 | noted |  |  |
| S5-233202 | LS reply to TSG SA ccSA5 on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA | S3-231387 | noted |  |  |
| S5-233203 | Reply LS ccSA5 on the user consent for trace reporting | S3-231398 | noted |  |  |
| S5-233204 | Reply LS ccSA5 on user consent of Non-public Network | S3-231399 | noted |  |  |
| S5-233205 | Reply LS ccSA5 on ID of MBS session in MBS QoE configuration | S4-230347 | noted |  |  |
| S5-233206 | Reply LS ccSA5 on QoE measurements in RRC IDLE/INACTIVE states | S4-230369 | noted |  |  |
| S5-233207 | LS on charging aspects for Ranging/Sidelink Positioning | S2-2303231 | replied to |  |  |
| S5-233208 | Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S3-231400 | postponed |  |  |
| S5-233209 | An Invitation to the SA4 Gender Diversity Committee Meetings | S4-230431 | noted |  |  |
| S5-233210 | Reply-LS ccSA5 on Research highlighting potential negated OAuth policy | C4-230487 | noted |  |  |
| S5-233211 | Reply LS ccSA5 on Tracking IANA assignment requests | R3-230802 | noted |  |  |
| S5-233212 | Reply LS on handover failures related to MRO for inter-system mobility | R3-230805 | noted |  |  |
| S5-233213 | LS reply to TSG SA ccSA5 on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA | S6-231068 | noted |  |  |
| S5-233214 | LS on requirement for network slice management service exposure interface and exposure entities | S6-230793 | replied to |  |  |
| S5-233215 | Resubmitted LS on NCR Solutions | R3-225253 | postponed |  |  |
| S5-233216 | Resubmitted Reply LS to SA5 on TS 28.404/TS 28.405 Clarification | S4-221121 | noted |  |  |
| S5-233217 | Resubmitted LS on RAN3 agreements for NR QoE | R3-222890 | noted |  |  |
| S5-233218 | Resubmitted LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 | O-RAN | postponed |  |  |
| S5-233219 | Rel-18 TS 28.204 v0.0.0 Initial skeleton | MATRIXX Software | approved |  |  |
| S5-233220 | Rel-18 pCR 28.204 Introduction of the Reference | MATRIXX Software | approved |  |  |
| S5-233221 | Rel-18 pCR 28.204 Introduction of the Scope | MATRIXX Software | revised |  | S5-233656 |
| S5-233222 | Rel-18 pCR 28.204 Introduction of the Terms | MATRIXX Software | approved |  |  |
| S5-233223 | Rel-18 pCR 28.203 Introduction of the Abbreviations | MATRIXX Software | approved |  |  |
| S5-233224 | pCR TR28.908 Description for AIML update control | Nokia | revised |  | S5-233575 |
| S5-233225 | pCR TR28.908 solution for AIML inference emulation | Nokia | revised |  | S5-233590 |
| S5-233226 | pCR TR28.908 solution for configuration of AIML inference | Nokia | revised |  | S5-233580 |
| S5-233227 | pCR TR28.908 Extend Coordination of AI/ML capabilities | Nokia | noted |  |  |
| S5-233228 | pCR TR 28.912 enhance service support expectation | Nokia | not treated |  |  |
| S5-233229 | pCR TR 28.912 intents for slice-based cell configuration | Nokia | not treated |  |  |
| S5-233230 | pCR TR 28.912 Intent Fullfillment feedback | Nokia | revised |  | S5-233231 |
| S5-233231 | pCR TR 28.912 Potential Solution on Intent-driven Closed Loop control | Nokia | revised | S5-233230 | S5-233558 |
| S5-233232 | New Work Item on Network and Service Operations for Energy Utilities | Samsung, EUTC, EDF, BMWK, Deutsche Telekom, Huawei, Ericsson, NOVAMINT | noted |  |  |
| S5-233233 | Rel-18 pCR 28.829 – Potential Solution for Energy utility and telecommunication coordinated rapid recovery of energy service | Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT | revised |  | S5-233621 |
| S5-233234 | Rel-18 pCR 28.829 – Clean up | Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT | revised |  | S5-233623 |
| S5-233235 | Presentation of Report to TSG: TR 28.829, Version 1.1.0 | Samsung (Rapporteur) | noted |  |  |
| S5-233236 | FS\_NSOEU and NSOEU WoP | Samsung (Rapporteur) | noted |  |  |
| S5-233237 | Skeleton of new TS 28.abc Network and Services Operations for Energy Utilities | Samsung (Rapporteur) | noted |  |  |
| S5-233238 | pCR TR 28.913 KI#1 Consideration of four types of metrics to estimate VNF Energy Consumption | Huawei, Ericsson, AT&T, Deutsche Telekom | noted |  |  |
| S5-233239 | pCR 28.913 Conclusion for KI#2 Energy Consumption of containerized VNF/ VNFCs | Huawei, Deutsche Telekom | revised |  | S5-233614 |
| S5-233240 | pCR 28.913 Conclusion for KI#3 Energy Consumption of RAN nodes | Huawei, Deutsche Telekom | revised |  | S5-233615 |
| S5-233241 | pCR 28.913 Conclusion for KI#4 EE KPI for V2X network slice | Huawei, Deutsche Telekom | revised |  | S5-233616 |
| S5-233242 | pCR 28.913 Conclusion for KI#5 Customer acceptance for QoS degradation to save energy | Huawei, Deutsche Telekom | revised |  | S5-233618 |
| S5-233243 | LS on work progress of M.fidtom, “Framework of intent driven telecom operation and management” (reply to 3GPP TSG SA5-S5-225599). | ITU-T | replied to |  |  |
| S5-233244 | LS on Consent of revised Recommendation ITU-T M.3020, “Management Interface Specification Methodology” (reply to 3GPP TSG SA5-S5-225615) | ITU-T | noted |  |  |
| S5-233245 | LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM) | ITU-T | replied to |  |  |
| S5-233246 | LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management” | ITU-T | replied to |  |  |
| S5-233247 | pCR 28.913 Conclusion for KI#6 EE KPI for URLLC network slice based on reliability | Huawei Technologies France | noted |  |  |
| S5-233248 | pCR 28.913 Conclusion for KI#7 Roles involved in EE KPI building | Huawei, Deutsche Telekom | revised |  | S5-233617 |
| S5-233249 | pCR 28.913 Conclusion for KI#9 RAN energy saving when using backup batteries | Huawei, Deutsche Telekom | revised |  | S5-233619 |
| S5-233250 | pCR 28.913 Solution and conclusion for KI#10 Digital sobriety | Huawei, Deutsche Telekom | revised |  | S5-233620 |
| S5-233251 | Rel-17 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | revised |  | S5-233694 |
| S5-233252 | Rel-18 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | withdrawn |  |  |
| S5-233253 | Rel-17 CR 32.257 Add Usage Volume in EAS Infrastructure Usage Charging Info | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-233254 | Rel-18 CR 32.257 Add Usage Volume in EAS Infrastructure Usage Charging Infon | Amdocs Software Systems Ltd | withdrawn |  |  |
| S5-233255 | Rel-17 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | revised |  | S5-233695 |
| S5-233256 | Rel-18 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | revised |  | S5-233696 |
| S5-233257 | Rel-17 CR 32.291 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | not pursued |  | - |
| S5-233258 | Rel-18 CR 32.291 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-233259 | Rel-17 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | revised |  | S5-233697 |
| S5-233260 | Rel-18 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | revised |  | S5-233698 |
| S5-233261 | Rel-17 CR 32.298 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-233262 | Rel-18 CR 32.298 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | not pursued |  |  |
| S5-233263 | Rel-18&Rel-19 time plan proposal for OAM | SA5 Vice chair (Huawei),SA5 Chair | revised | S5-232763 | S5-233555 |
| S5-233264 | Rel-18 pCR TR 28.831 Add a new key issue for Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | revised |  | S5-233593 |
| S5-233265 | Rel-18 pCR TR 28.831 Add potential requirements for KI for Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | revised |  | S5-233594 |
| S5-233266 | Rel-18 pCR TR 28.831 Add a potential solution for KI for Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233267 | Rel-18 pCR TR 28.831 Add a potential solution for the URI location for KI Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233268 | Rel-18 pCR TR 28.831 Add a new key issue for Advertising notifications supported by MnS producer | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233269 | Rel 18 pCR TR 28.908 Enhancement to solutions on AIML trustworthiness | Nokia, Nokia Shanghai Bell | revised |  | S5-233588 |
| S5-233270 | Rel 18 pCR TR 28.908 Evaluation for AI/ML trustworthiness | Nokia, Nokia Shanghai Bell | revised |  | S5-233589 |
| S5-233271 | pCR 28.908 Replacing mandatory language from requirements | Ericsson Telecomunicazioni SpA | approved |  |  |
| S5-233272 | pCR TR 28.912 Rapporteur on clause 4 | Huawei | revised |  | S5-233567 |
| S5-233273 | pCR TR 28.912 Rapporteur clean up on clause 6 | Huawei | revised |  | S5-233568 |
| S5-233274 | pCR TR 28.912 Update the Issue#4.6 Intent-driven closed loop control | Huawei, Deutsche Telekom | revised |  | S5-233559 |
| S5-233275 | pCR TR 28.912 Correct the wrong target and context definition in Issue#5.2 | Huawei | approved |  |  |
| S5-233276 | LS on progress of 3GPP SA5 R18 work on intent driven management | Huawei | approved |  |  |
| S5-233277 | LS on 3GPP SA5 work on intent interface collaboration | Huawei | approved |  |  |
| S5-233278 | pCR TR 28.836 Add procedures for network slice (subnet) delivering and assurance | Huawei, Deutsche Telekom,China Mobile | revised |  | S5-233586 |
| S5-233279 | pCR TR28.836 Add solution for intent expectation for RAN network slice subnet service delivering and assurance | Huawei, Deutsche Telekom,China Mobile | approved |  |  |
| S5-233280 | pCR TR28.836 Add solution for modelling ServiceProfile attributes as intent expectation for network slice service delivering and assurance | Huawei, Deutsche Telekom,China Mobile | noted |  |  |
| S5-233281 | pCR TR 28.842 add issue and potential solutions for external data management | Huawei, Deutsche Telekom | noted |  |  |
| S5-233282 | pCR 28.908 enhance ML retraining | Nokia | noted |  |  |
| S5-233283 | pCR 28.903 Add KI and solution for dynamic EAS scaling | AsiaInfo,Huawei | noted |  |  |
| S5-233284 | Rel-18 CR 28.831 Add conclusion for issue 3 Definition of createMOI | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233285 | Rel-18 CR 28.831 Add definition of HTTP error codes (error response format) | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-233286 | Rel-18 CR 28.831 Improve description of error response body format (error response format) | Nokia, Nokia Shanghai Bell | revised |  | S5-233595 |
| S5-233287 | Rel-18 CR 28.831 Clarify definition of the type property (error response format) | Nokia, Nokia Shanghai Bell | revised |  | S5-233596 |
| S5-233288 | Rel-18 CR 28.831 Clarify and restructure definition of the reason property for GET (error response format) | Nokia, Nokia Shanghai Bell | revised |  | S5-233597 |
| S5-233289 | mRel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating attributes (error response format) | Nokia, Nokia Shanghai Bell | revised |  | S5-233598 |
| S5-233290 | Rel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating objects (error response format) | Nokia, Nokia Shanghai Bell | revised |  | S5-233599 |
| S5-233291 | Rel-18 CR 28.831 Add clause on Error reasons for application layer errors (error response format) | Nokia, Nokia Shanghai Bell | revised |  | S5-233600 |
| S5-233292 | Rel-18 CR 28.831 Add key issue on node selection | Nokia, Nokia Shanghai Bell | revised |  | S5-233601 |
| S5-233293 | Rel-18 CR 28.831 Add key issue and solution on MnS versioning | Nokia, Nokia Shanghai Bell | revised |  | S5-233603 |
| S5-233294 | Rel-18 CR 28.831 Add CR proposal for issue 2 Targeted notification subscriptions | Nokia, Nokia Shanghai Bell | revised |  | S5-233602 |
| S5-233295 | Rel-17 CR 32.298 Correction of NetworkFunctionality civicLocation | Ericsson LM | agreed |  |  |
| S5-233296 | Rel-18 CR 32.298 Correction of mMSChargingInformation NetworkFunctionality civicLocation | Ericsson LM | agreed |  |  |
| S5-233297 | Rel-17 CR 32.291 Correction of requested units | Ericsson LM | not pursued |  |  |
| S5-233298 | Rel-18 CR 32.291 Correction of requested units | Ericsson LM | not pursued |  |  |
| S5-233299 | DP Use of QBC and FBC | Ericsson LM | noted |  |  |
| S5-233300 | DP Use of Charging Characteristics | Ericsson LM | noted |  |  |
| S5-233301 | DP Use of AMF charging profile | Ericsson LM | noted |  |  |
| S5-233302 | Rel-18 pCR 28.826 Adding service identifier based solution to clause 5.3 | Ericsson LM | noted |  |  |
| S5-233303 | Rel-18 pCR 28.826 Updating cancelling using charging session identifier clause 5.4 | Ericsson LM | revised |  | S5-233691 |
| S5-233304 | Rel-18 pCR 28.826 Correcting use cases and key issues in clause 6.2 | Ericsson LM | revised |  | S5-233666 |
| S5-233305 | Rel-18 pCR 28.826 New solutions for documenting binding in clause 6.3 | Ericsson LM | revised |  | S5-233681 |
| S5-233306 | Rel-18 pCR 28.826 New solutions for CDR handling in clause 6.3 | Ericsson LM | revised |  | S5-233715 |
| S5-233307 | Rel-18 pCR 28.826 New use case for containers exceeds message limit in clause 5.3 | Ericsson LM | noted |  |  |
| S5-233308 | Rel-18 pCR 28.827 Correcting key issue for solution 1.4 | Ericsson LM | revised |  | S5-233716 |
| S5-233309 | Rel-18 pCR 28.827 Adding conclusion in clause 7.1 | Ericsson LM | revised |  | S5-233675 |
| S5-233310 | Rel-18 pCR 28.827 New solution in clause 7.2 Roaming charging profile update CHF-to-CHF | Ericsson LM | approved |  |  |
| S5-233311 | Rel-18 pCR 28.827 Updating evaluation and conclusion in clause 7.2 | Ericsson LM | revised |  | S5-233674 |
| S5-233312 | Rel-18 pCR 28.827 Adding conclusion in clause 7.3 | Ericsson LM | noted |  |  |
| S5-233313 | Rel-18 pCR 28.827 New solution trigger of CHF-to-CHF interaction for clause 7.4 | Ericsson LM | approved |  |  |
| S5-233314 | Rel-18 pCR 28.827 Adding conclusion in clause 7.4 | Ericsson LM | revised |  | S5-233677 |
| S5-233315 | Rel-18 pCR 28.827 Adding conclusion in clause 7.5 | Ericsson LM | noted |  |  |
| S5-233316 | Rel-18 pCR 28.827 Adding user reporting solution in clause 7.6 | Ericsson LM | noted |  |  |
| S5-233317 | Rel-18 pCR 28.827 Adding conclusion in clause 7.6 | Ericsson LM | noted |  |  |
| S5-233318 | Rel-18 pCR 28.827 Updating the conclusion | Ericsson LM | revised |  | S5-233680 |
| S5-233319 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | SA5 Vice chair (Huawei) | revised | S5-232752 | S5-233569 |
| S5-233320 | Service Management | Ericsson | endorsed |  |  |
| S5-233321 | pCR TR 28.908 Correction of terminology | Ericsson India Private Limited | noted |  |  |
| S5-233322 | Reply LS on interface and exposure entities requirement for network slice management service | L.M. Ericsson Limited | revised |  | S5-233554 |
| S5-233323 | Discussion paper on applicability of service profile parameters for intent | L.M. Ericsson Limited, Deutsche Telekom | revised |  | S5-233570 |
| S5-233324 | Discussion paper on ServAttrCom and Intent | L.M. Ericsson Limited, Deutsche Telekom | revised |  | S5-233571 |
| S5-233325 | pCR 28.836 Restructure solutions to allow multiple alternatives | L.M. Ericsson Limited, Deutsche Telekom | approved |  |  |
| S5-233326 | pCR 28.836 Add network slice expectation definition alternative | L.M. Ericsson Limited, Deutsche Telekom | noted |  |  |
| S5-233327 | pCR 28.836 Use case for network slice intent | L.M. Ericsson Limited, Deutsche Telekom | noted |  |  |
| S5-233328 | LS on publication of GSMA OPG and OPAG documents | GSMA | replied to |  |  |
| S5-233329 | pCR 28.925 Issues in 28.621 | Ericsson | noted |  |  |
| S5-233330 | pCR 28.925 Proposal in 28.621 | Ericsson | noted |  |  |
| S5-233331 | pCR 28.925 Issues in 28.622 | Ericsson | noted |  |  |
| S5-233332 | pCR 28.925 Proposal in 28.622 | Ericsson | noted |  |  |
| S5-233333 | pCR 28.925 Issues in 28.623 | Ericsson | noted |  |  |
| S5-233334 | pCR 28.925 Proposal in 28.623 | Ericsson GmbH, Eurolab | noted |  |  |
| S5-233335 | Rel-18 pCR 28.837 Problem Statement and solution on Management of MDT of MRO for inter-system handover for voice fallback | Nokia, Nokia Shanghai Bell | revised |  | S5-233609 |
| S5-233336 | Rel-18 pCR 28.837 Update on conclusions and recommendations | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-233337 | Rel-18 pCR 28.842 KI on discovery of data collection capabilities | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233338 | pCR 28.908 Add description for ML entity re-training | Intel, NEC | revised |  | S5-233576 |
| S5-233339 | pCR 28.908 Add description for ML entity update | Intel, NEC | merged |  | S5-233575 |
| S5-233340 | pCR 28.908 Add description for ML entity joint training | Intel, NEC | revised |  | S5-233577 |
| S5-233341 | pCR 28.908 Add evaluation for trustworth Machine Learning | Intel, NEC | merged |  | S5-233589 |
| S5-233342 | pCR 28.908 Add solution for management of ML entity emulation | Intel, NEC | merged |  | S5-233590 |
| S5-233343 | pCR 28.908 Clarification on solution for AI-ML inference function configuration | Intel, NEC | merged |  | S5-233580 |
| S5-233344 | Presentation of TR 28.908 for approval | Intel, NEC | approved |  |  |
| S5-233345 | Presentation sheet of TR 28.912 for SA Approval | Huawei | approved | S5-232444 |  |
| S5-233346 | pCR TR 28.910 Add potential solution for 5GC NF deployment | Huawei | noted |  |  |
| S5-233347 | pCR 28.836 Add potential solution for IDM to express expectation of network slice service assurance | Huawei | approved |  |  |
| S5-233348 | pCR 28.925 Add an example for management function deployment scenario | Huawei | noted |  |  |
| S5-233349 | pCR 28.832 Correction of terminologies and missing references | Huawei | approved |  |  |
| S5-233350 | pCR 28.834 Editorial cleanup | Huawei | approved |  |  |
| S5-233351 | pCR 28.834 Fix references | Huawei | merged |  | S5-233607 |
| S5-233352 | pCR 28.834 Requirement cleanup | Huawei | approved |  |  |
| S5-233353 | pCR 28.834 Update recommendation for VNF package management | Huawei | approved |  |  |
| S5-233354 | pCR 28.824 Improve discovery solution | Huawei | approved |  |  |
| S5-233355 | pCR 28.824 Improve description of exposure governance | Huawei | approved |  |  |
| S5-233356 | pCR 28.824 Correction of termiologies | Huawei | revised |  | S5-233629 |
| S5-233357 | pCR 28.903 Add recommendation for resource reservation related issue | Huawei | revised |  | S5-233631 |
| S5-233358 | pCR 28.903 Add recommendation for SLA related issue | Huawei | revised |  | S5-233632 |
| S5-233359 | pCR 28.903 Add recommendation for management for alignement with ETSI MEC | Huawei | approved |  |  |
| S5-233360 | pCR 28.903 Add recommendation for application resource catalogue related issue | Huawei | approved |  |  |
| S5-233361 | pCR 28.903 Add solution for virtual resource related issue | Huawei | approved |  |  |
| S5-233362 | pCR 28.841 Correction of reference number | Huawei | merged |  | S5-233610 |
| S5-233363 | Discussion paper on Charging Aspects of NG\_RTC | China Mobile | noted |  |  |
| S5-233364 | New WID on Charging Aspects of Next Generation Real time Communication services | China Mobile | revised |  | S5-233661 |
| S5-233365 | Discussion on Service Management | Nokia | noted |  |  |
| S5-233366 | Discussion on Requirements in TR 28.829 | Nokia | endorsed |  |  |
| S5-233367 | Rel-18 pCR 28.829 – Update 6.8 | Nokia | approved |  |  |
| S5-233368 | Rel-18 pCR 28.829 – Update 6.9 | Nokia | approved |  |  |
| S5-233369 | Rel-18 pCR 28.829 – Update 6.4 | Nokia | approved |  |  |
| S5-233370 | Rel-18 pCR 28.829 – Update 6.5 | Nokia | approved |  |  |
| S5-233371 | Rel-18 pCR 28.829 – Update 6.6 | Nokia | approved |  |  |
| S5-233372 | Rel-18 pCR 28.829 – Update 6.7 | Nokia | approved |  |  |
| S5-233373 | Rel-18 pCR 28.829 – Update 6.8 | Nokia | approved |  |  |
| S5-233374 | Rel-18 pCR 28.829 – Update 6.9 | Nokia | approved |  |  |
| S5-233375 | Rel-18 pCR 28.829 – authorization | Nokia | revised |  | S5-233622 |
| S5-233376 | Rel-18 pCR 28.203 Introduce Architecture | MATRIXX Software | approved |  |  |
| S5-233377 | Rel-18 pCR 28.203 Introduce charging principles | MATRIXX Software | revised |  | S5-233658 |
| S5-233378 | Rel-18 pCR 28.203 Introduce charging scenarios principles | MATRIXX Software | revised |  | S5-233659 |
| S5-233379 | Rel-18 pCR 28.203 Introduce triggers | MATRIXX Software | revised |  | S5-233660 |
| S5-233380 | Rel-18 pCR 28.203 Introduce NSACF charging profile | MATRIXX Software | noted |  |  |
| S5-233381 | pCR28.908 Rapporteur clean-up & clarifications | NEC, Intel | revised |  | S5-233574 |
| S5-233382 | pCR28.908 clarifications to ML entity re-training use case | NEC, Intel | approved |  |  |
| S5-233383 | pCR28.908 Further clarifications and corrections to deployment scenarios | NEC, Intel | approved |  |  |
| S5-233384 | pCR28.908 clarifications to Training data effectiveness reporting and analytics use case | NEC, Intel | approved |  |  |
| S5-233385 | LS to 5G-ACIA on Management of non-public networks | Huawei | approved |  |  |
| S5-233386 | pCR TR 28.824 clean-up | Huawei | revised |  | S5-233626 |
| S5-233387 | pCR TR 28.824 Add conclusion and recommendation for network slice management capability exposure via CAPIF | Huawei | revised |  | S5-233627 |
| S5-233388 | pCR TR 28.912 Add intent fulfilment feasibility information into intent report | ZTE Corporation | revised |  | S5-233560 |
| S5-233389 | pCR TR 28.912 Clarification on Issue 4.1 intent driven approach for RAN energy saving | ZTE Corporation | revised |  | S5-233562 |
| S5-233390 | pCR TR 28.912 Clarification on Issue 4.2 Intent conflicts | ZTE Corporation | revised |  | S5-233563 |
| S5-233391 | S5-23xxxx DP for Rel-19 topic | Samsung Electronics France SA | revised |  | S5-233556 |
| S5-233392 | pCR TR 28.912 Clarification on Issue 4.5 Intent report | ZTE Corporation | noted |  |  |
| S5-233393 | pCR 28.831 Logging Solution | Samsung Electronics France SA | noted |  |  |
| S5-233394 | pCR TR 28.912 Clarification on Issue 4.7 Monitoring intent fulfilment information | ZTE Corporation | noted |  |  |
| S5-233395 | pCR 28.903 Federated EAS Management | Samsung Electronics France SA | revised |  | S5-233633 |
| S5-233396 | pCR 28.903 Federation Management | Samsung Electronics France SA | revised |  | S5-233634 |
| S5-233397 | pCR 28.903 EAS Mobility | Samsung Electronics France SA | revised |  | S5-233635 |
| S5-233398 | pCR 28.831 Alarm Subscription and Notification Key Issue | Samsung Electronics France SA | noted |  |  |
| S5-233399 | pCR TR 28.908 Add use case and solution for AI/ML management of RAN domain centrialized ES | Huawei | noted |  |  |
| S5-233400 | pCR TR 28.908 Update the solution of AI/ML update control | Huawei | revised |  | S5-233587 |
| S5-233401 | pCR 28.841 add use case for monitoring of satellite components | China Unicom | noted |  |  |
| S5-233402 | pCR 28.841 add potential requirements and solutions for monitoring of satellite components | China Unicom | noted |  |  |
| S5-233403 | pCR 28.841 update conclusion and recommendations | China Unicom | noted |  |  |
| S5-233404 | pCR 28.841 Rapporteur clean up | China Unicom | approved |  |  |
| S5-233405 | Presentation sheet of TR 28.841 for Approval | China Unicom | noted |  |  |
| S5-233406 | SA5 Working Procedures | Nokia, Nokia Shanghai Bell | revised |  | S5-233552 |
| S5-233407 | Rel-18 pCR 28.203 Introduce message flows | MATRIXX Software | revised |  | S5-233657 |
| S5-233408 | New WID on autonomous network levels phase 2 | China Mobile, Huawei, AsiaInfo, CATT, ZTE, China Unicom, Intel | noted | S5-232769 |  |
| S5-233409 | pCR TR 28.910 Add gap analysis and recommendation for key issue#5.1b RAN UE throughput optimization | China Mobile, Huawei, ZTE, AsiaInfo, China Unicom, CATT | noted |  |  |
| S5-233410 | pCR TR 28.910 Add use cases and requirements for management of ANL | China Mobile, Huawei, Deutsche Telecom, AsiaInfo, CATT, China Unicom, ZTE | noted |  |  |
| S5-233411 | pCR TR 28.910 Clean up some Editor's Notes and editorial issues | China Mobile | approved |  |  |
| S5-233412 | Rel-18 pCR 28.826 Add the solution for reporting depending on the triggers | Huawei | noted |  |  |
| S5-233413 | Rel-18 pCR 28.826 Add the evaluation for charging reporting | Huawei | noted |  |  |
| S5-233414 | Rel-18 pCR 28.826 Add the solution for the undefined CDR | Huawei | revised |  | S5-233701 |
| S5-233415 | Rel-18 pCR 28.826 Update the evaluation for CHF rating | Huawei | noted |  |  |
| S5-233416 | Rel-18 pCR 28.826 Update the evaluation for non-blocking mode control | Huawei | noted |  |  |
| S5-233417 | Rel-18 pCR 28.826 Update the evaluation for the cancelling | Huawei | revised |  | S5-233699 |
| S5-233418 | Rel-18 pCR 28.826 Update the evaluation for the charging accuracy | Huawei | approved |  |  |
| S5-233419 | Rel-18 pCR 28.826 Update the key issue, evaluation and conclusion in the clause 6 | Huawei | revised |  | S5-233702 |
| S5-233420 | Rel-18 pCR 28.827 Clarify Solution #2.10 for charging session between V-CHF and H-CHF per UE | Huawei | revised |  | S5-233692 |
| S5-233421 | Rel-18 pCR 28.827 Add Solution #2.x for charging session between V-CHF and H-CHF per PDU session | Huawei | noted |  |  |
| S5-233422 | Rel-18 pCR 28.827 Clarify Solution #2.11 for charging message exchange between V-CHF and H-CHF per charging data request | Huawei | revised |  | S5-233693 |
| S5-233423 | Rel-18 pCR 28.827 Add Solution #2.y for charging message exchange between V-CHF and H-CHF based on quota management | Huawei | noted |  |  |
| S5-233424 | Rel-18 pCR 28.827 Update evaluation for key issue #2e in clause 7.2 | Huawei | merged |  | S5-233674 |
| S5-233425 | Rel-18 pCR 28.827 Add evaluation and conclusion for Solution #2.17 | Huawei | noted |  |  |
| S5-233426 | Rel-18 pCR 28.827 Update conclusion for clause 7.2 | Huawei | merged |  | S5-233674 |
| S5-233427 | Rel-18 pCR 28.827 Fix error in Solution #1.4 | Huawei | merged |  | S5-233716 |
| S5-233428 | Rel-18 pCR 28.827 Update evaluation for key issue #1e in clause 7.1 | Huawei | merged |  | S5-233675 |
| S5-233429 | Rel-18 pCR 28.827 Add conclusion for clause 7.1 | Huawei | merged |  | S5-233675 |
| S5-233430 | Rel18 pCR TR 28.839 Clarificatin on the solution the Network Exposure Charging | Huawei | approved |  |  |
| S5-233431 | Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge configuration | Huawei | merged |  | S5-233703 |
| S5-233432 | Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management | Huawei | revised |  | S5-233703 |
| S5-233433 | Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management and configuration | Huawei | revised |  | S5-233704 |
| S5-233434 | Rel18 pCR TR 28.839 Addition of the solution for the Enablers for TSC and TS Charging | Huawei | noted |  |  |
| S5-233435 | Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN station | Huawei | revised |  | S5-233706 |
| S5-233436 | Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN system | Huawei | revised |  | S5-233707 |
| S5-233437 | Rel18 pCR TR28.843 Addition of solution in the skeleton | Huawei | approved |  |  |
| S5-233438 | Rel18 pCR TR28.843 Addition of the Terms | Huawei | approved |  |  |
| S5-233439 | Rel18 pCR TR28.843 Addition of the Key issues about architecture mapping | Huawei | revised |  | S5-233708 |
| S5-233440 | Rel18 pCR TR28.843 Addition of the Key issues about charging principles clarification | Huawei | revised |  | S5-233709 |
| S5-233441 | Rel18 pCR TR28.843 Addition of the solution about Charging System selection | Huawei | noted |  |  |
| S5-233442 | Rel18 pCR TR28.843 Addition of the solution about CHFs Interaction | Huawei | noted |  |  |
| S5-233443 | Rel18 pCR TR28.843 Addition of the solution about Converged charging architecture | Huawei | noted |  |  |
| S5-233444 | Rel18 pCR TR28.843 Addition of the solution about Converged Vertical charging architecture | Huawei | noted |  |  |
| S5-233445 | Rel18 pCR TR28.843 Addition of the solution about Independent vertical charging architecture | Huawei | noted |  |  |
| S5-233446 | Rel18 pCR TR28.843 Addition of the solution about New TS for the charging architecture and Pinciples | Huawei | noted |  |  |
| S5-233447 | Rel18 pCR TR28.843 Addition of the solution about Restructure for the vertical charging | Huawei | noted |  |  |
| S5-233448 | Correction the charging principle for alignment | Huawei | revised |  | S5-233689 |
| S5-233449 | Add the converged charging mapping | Huawei | not pursued |  |  |
| S5-233450 | Add the converged charging mapping | Huawei | not pursued |  |  |
| S5-233451 | Addition of the Triggers in the CHF CDR | Huawei | not pursued |  |  |
| S5-233452 | Addition of the Triggers in the CHF CDR | Huawei | not pursued |  |  |
| S5-233453 | DP on CHF Distributed Deployment Availability | Huawei | noted |  |  |
| S5-233454 | An Architecture for CHF Distributed Availability in Migration Mode | Huawei | not pursued |  |  |
| S5-233455 | An Architecture for CHF Distributed Availability in Multiple Backup Mode | Huawei | not pursued |  |  |
| S5-233456 | pCR TR 28.836 Add description of network slice subnet instance in clause 4.2 | ZTE Corporation | revised |  | S5-233572 |
| S5-233457 | pCR TR 28.910 Add key issue of attribution to individual MnS | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233458 | pCR TR 28.910 Add potential solutions for Key Issue #6-1: Autonomous network level for RAN energy saving use case | Huawei, Deutsche Telekom, China Mobile | noted |  |  |
| S5-233459 | pCR TR 28.910 Add potential solution for management of ANL | Huawei, China Mobile,Deutsche Telekom | noted |  |  |
| S5-233460 | New SID on Charging Aspects of Ranging and Sidelink Positioning | China Telecommunications | revised |  | S5-233662 |
| S5-233461 | pCR TR 28.925 Add overview for management service features supported by CRUD operations in SBMA | Huawei | noted |  |  |
| S5-233462 | New WID on Charging Aspects for 5G Multicast-broadcast Services | China Mobile M2M Company Ltd. | revised |  | S5-233671 |
| S5-233463 | Discussion paper on charging enhancements for 5MBS | China Mobile M2M Company Ltd. | noted |  |  |
| S5-233464 | pCR 28.864 Update Evaluation and Conclusion for KI#3 | China Telecommunication | revised |  | S5-233581 |
| S5-233465 | Discussion paper on summarization of TR 28.864 and work plan for MANWDAF | China Telecommunication | revised |  | S5-233582 |
| S5-233466 | pCR TR 28.925 Add conclusion and recommendation for issue#6 software management feature in SBMA for 5G | Huawei | noted |  |  |
| S5-233467 | pCR TR 28.925 Add conclusion and recommendation for issue#9 Improvement on the management function description | Huawei | noted |  |  |
| S5-233468 | pCR TR 28.925 Update solution and add conclusion and recommendation for issue#12 illustration of using MnS in management reference model in TS 32.101 | Huawei | noted |  |  |
| S5-233469 | pCR TR 28.863 Issue1 definition of KQI | Huawei | approved |  |  |
| S5-233470 | pCR TR 28.863 Issue 3 Solution of KQIs for Video Uploading | Huawei | noted |  |  |
| S5-233471 | pCR TR 28.863 Issue4 definition of Remote controll | Huawei | noted |  |  |
| S5-233472 | pCR TR 28.836 Add Use case of Intent driven management to support the operation of network slice instance | ZTE Corporation | noted |  |  |
| S5-233473 | Intent fulfillment feasibility check and corresponding solutions | China Mobile Com. Corporation | revised |  | S5-233561 |
| S5-233474 | Clarifying the use of ObjectContext and defining another value Property for configuration expectations | China Mobile Com. Corporation | revised |  | S5-233565 |
| S5-233475 | issue#4.11 Generic information model definition enhancement | China Mobile Com. Corporation | noted |  |  |
| S5-233476 | issue#4.5.1 Intent report description enhancement | China Mobile Com. Corporation | revised |  | S5-233564 |
| S5-233477 | issue#4.5.1 Intent report potential solution#1 enhancement | China Mobile Com. Corporation | revised |  | S5-233585 |
| S5-233478 | pCR TR 28.824 Add conclusion and recommendation for filtering | Huawei | revised |  | S5-233628 |
| S5-233479 | pCR TR 28.925 update the example for management function deployment scenarios | Huawei | noted |  |  |
| S5-233480 | Stateless Alert in Fault Supervision | Ericsson Hungary Ltd | noted | S5-231106 |  |
| S5-233481 | pCR TR 28.912 Add conclusion and recommendation for enhancement for service support expectation | China Mobile E-Commerce Co. | revised |  | S5-233566 |
| S5-233482 | Rel-18 pCR 28.826 Adding use case and key issue on handling of PEC and IEC triggers | Ericsson LM | noted |  |  |
| S5-233483 | pCR 28.824 Remove the EN about exposed management services | China Mobile E-Commerce Co. | revised |  | S5-233630 |
| S5-233484 | Introduction of general background and satellite access architecture and functionality | CATT | revised |  | S5-233673 |
| S5-233485 | Introduction of satellite backhaul architecture and functionality | CATT | approved |  |  |
| S5-233486 | Introduction of charging modes | CATT | revised |  | S5-233669 |
| S5-233487 | Add charging scenarios and key issues for Satellite access on converged charging for access connection | CATT | revised |  | S5-233672 |
| S5-233488 | Add charging scenarios and key issues for Satellite backhaul on converged charging for data connection | CATT | revised |  | S5-233670 |
| S5-233489 | Presentation sheet of TR 28.834 for SA Approval | China Mobile Com. Corporation | revised |  | S5-233608 |
| S5-233490 | pCR 28.834 Adding editorial changes | China Mobile Com. Corporation | revised |  | S5-233607 |
| S5-233491 | pCR TR 28.909 Add description for ML entity joint training | China Mobile E-Commerce Co. | withdrawn |  |  |
| S5-233492 | pCR TR 28.909 Add description for ML entity re-training | China Mobile E-Commerce Co. | withdrawn |  |  |
| S5-233493 | pCR TR 28.865 Report of reliability capability information | Huawei | noted |  |  |
| S5-233494 | pCR TR 28.865 Add description on reliability analysis | Huawei | noted |  |  |
| S5-233495 | pCR TR 28.830 Add description failure prediction enhancement | Huawei, China Mobile | noted |  |  |
| S5-233496 | pCR TR 28.830 Add description performance degradation analysis | Huawei, China Mobile | noted |  |  |
| S5-233497 | Updade Release 18 SID on Management Aspects of URLLC | China Unicom | agreed |  |  |
| S5-233498 | Add New Key issue and solution for Energy Efficiency of URLLC network slice- RAN based | China Unicom | noted |  |  |
| S5-233499 | Add New Solution for URLLC performance management related to reliability | China Unicom | revised |  | S5-233636 |
| S5-233500 | Add New Solution for support for performance measurements related on URLLC resource load | China Unicom | noted |  |  |
| S5-233501 | Add New Solution for configuration of latency for URLLC in RAN | China Unicom | revised |  | S5-233604 |
| S5-233502 | Add Conclusion and recommendation for issue#4 | China Unicom | revised |  | S5-233605 |
| S5-233503 | Add potential solution for Energy Efficiency KPI of URLLC Network Slice based on both latency and reliability | China Unicom | noted |  |  |
| S5-233504 | Modify service-based management architecture for MOCN and add conclusion for issue #4 | China Unicom | noted |  |  |
| S5-233505 | Modify potential solution and add conclusion for issue #5 | China Unicom | noted |  |  |
| S5-233506 | New Rel-18 WID on Management Aspects of URLLC | China Unicom | noted |  |  |
| S5-233507 | Modify description, solution and add conclusion on issue #1 | China Unicom | noted |  |  |
| S5-233508 | Modify description, solution and add conclusion on issue #3 | China Unicom | noted |  |  |
| S5-233509 | Add conclusion and recommendation for issue #2 | China Unicom | noted |  |  |
| S5-233510 | New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2 | China Unicom | noted |  |  |
| S5-233511 | Discussion on URLLC performance measurements related to resource load of URLLC services | China Unicom | noted |  |  |
| S5-233512 | Discussion on URLLC performance management related to reliability | China Unicom | revised |  | S5-233606 |
| S5-233513 | pCR TR 28.912 Add solutions for monitoring intent fulfilment | China Mobile E-Commerce Co. | noted |  |  |
| S5-233514 | Discussion on way forward of Management Aspects of 5G Network Sharing Phase2 | China Unicom | noted |  |  |
| S5-233515 | pCR 28.908 Add use case and requirement on Model evaluation for ML testing | CATT | revised |  | S5-233578 |
| S5-233516 | pCR 28.908 Add potential solution on Model evaluation for ML testing | CATT | revised |  | S5-233579 |
| S5-233517 | pCR 28.841 Editorial clean-up | CATT | revised |  | S5-233610 |
| S5-233518 | Rel-18 pCR TR 28.842 Add key issue for reporting of consolidated management data | Ericsson Inc. | revised |  | S5-233612 |
| S5-233519 | Rel-18 CR 32.260 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | revised |  | S5-233682 |
| S5-233520 | Rel-18 CR 32.291 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | revised |  | S5-233683 |
| S5-233521 | Rel-18 CR 32.298 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | revised |  | S5-233684 |
| S5-233522 | Rel-18 pCR 28.826 Solution #1.15 Trigger | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233523 | Rel-18 pCR 28.840 Document Structure Update | Nokia, Nokia Shanghai Bell | revised |  | S5-233668 |
| S5-233524 | New WID on Management of cloud-native Virtualized Network Functions | China Mobile,Huawei,AsiaInfo | revised |  | S5-233557 |
| S5-233525 | pCR TR 28.908 Add description for ML entity joint training | China Mobile E-Commerce Co. | merged |  | S5-233577 |
| S5-233526 | pCR TR 28.908 Add description for ML entity re-training | China Mobile E-Commerce Co. | merged |  | S5-233576 |
| S5-233527 | Collection of useful endorsed document and external communication documents | WG Vice Chair (Huawei) | noted | S5-232011 |  |
| S5-233528 | Add key issue on enhancing the description of management data | Nokia, Nokia Shanghai Bell, Microsift | revised |  | S5-233611 |
| S5-233529 | Add background information on the 5G features QoS and slicing | Nokia, Nokia Shanghai Bell | revised |  | S5-233573 |
| S5-233530 | pCR TR 28.840 Abbreviations chapter Update | Nokia, Nokia Shanghai Bell | revised |  | S5-233678 |
| S5-233531 | pCR 28.842 solution for retrieval of stored management data | Microsoft Europe SARL | noted |  |  |
| S5-233532 | pCR TR 28.842 Solution for discovery of stored management data | Microsoft Europe SARL | noted |  |  |
| S5-233533 | pCR TR 28.840 Symbols chapter Update | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233534 | Draft TR 28.840 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-233535 | pCR TR 28.842 Correction -Adding missing reference | Microsoft Europe SARL | approved |  |  |
| S5-233536 | Rel-18 pCR 28.913 Add Conclusion and Recommendation for Key Issue 6 | Samsung Electronics Nordic AB | noted |  |  |
| S5-233537 | DP on FM restructuring TS 28-545 | Ericsson Hungary Ltd | revised | S5-232771 | S5-233583 |
| S5-233538 | Add use case of intent-based management of communication services | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233539 | pCR28.908 split of Trustworthy Machine Learning use cases into two parts for training/testing and inference phase | NEC, Intel | noted |  |  |
| S5-233540 | LS on new Recommendation ITU-T Y.3160 (ex.Y.SLOA-arch) “Architectural framework of end-to-end service level objective guarantee for future networks including IMT-2020”. | ITU-T | postponed | - | - |
| S5-233541 | LS to SA5 on E2E Network Slicing Requirements | GSMA | postponed | - | - |
| S5-233542 | LS on Slice based (wholesale) differentiation and charging in roaming | GSMA | postponed | - | - |
| S5-233543 | Reply to: LS on publication of GSMA OPG and OPAG documents | Huawei | approved | - | - |
| S5-233544 | Reply LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 | Ericsson | noted | - | - |
| S5-233545 | Reply to: LS on work progress of M.fidtom, “Framework of intent driven telecom operation and management” (reply to 3GPP TSG SA5-S5-225599). | Huawei | approved | - | - |
| S5-233546 | Reply to: Resubmitted LS on secured and trusted access to the serving PLMN OAM server by a MBSR | Huawei | approved | - | - |
| S5-233547 | Reply to: LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM) | China Mobile | revised | - | S5-233711 |
| S5-233548 | Reply to: LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management” | China Mobile | revised | - | S5-233712 |
| S5-233549 | Reply to: TM Forum Liaison: Update on TM Forum Intent Management API and Ontologies – Connector model and 3GPP connector mode | Huawei | approved | - | - |
| S5-233550 | Reply to: Resubmitted LS on Performance measurement for AI/ML | Intel | approved | - | - |
| S5-233551 | Reply to: Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR | Samsung | revised | - | S5-233613 |
| S5-233552 | SA5 Working Procedures | Nokia, Nokia Shanghai Bell | approved | S5-233406 | - |
| S5-233553 | SA5 meeting calendar | WG Chair | noted | S5-233191 | - |
| S5-233554 | Reply LS on interface and exposure entities requirement for network slice management service | L.M. Ericsson Limited | revised | S5-233322 | S5-233624 |
| S5-233555 | Rel-18&Rel-19 time plan proposal for OAM | SA5 Vice chair (Huawei),SA5 Chair | endorsed | S5-233263 | - |
| S5-233556 | S5-23xxxx DP for Rel-19 topic | Samsung Electronics France SA | endorsed | S5-233391 | - |
| S5-233557 | New WID on Management of cloud-native Virtualized Network Functions | China Mobile,Huawei,AsiaInfo | agreed | S5-233524 | - |
| S5-233558 | pCR TR 28.912 Potential Solution on Intent-driven Closed Loop control | Nokia | approved | S5-233231 | - |
| S5-233559 | pCR TR 28.912 Update the Issue#4.6 Intent-driven closed loop control | Huawei, Deutsche Telekom | approved | S5-233274 | - |
| S5-233560 | pCR TR 28.912 Add intent fulfilment feasibility information into intent report | ZTE Corporation | approved | S5-233388 | - |
| S5-233561 | Intent fulfillment feasibility check and corresponding solutions | China Mobile Com. Corporation | approved | S5-233473 | - |
| S5-233562 | pCR TR 28.912 Clarification on Issue 4.1 intent driven approach for RAN energy saving | ZTE Corporation | approved | S5-233389 | - |
| S5-233563 | pCR TR 28.912 Clarification on Issue 4.2 Intent conflicts | ZTE Corporation | approved | S5-233390 | - |
| S5-233564 | issue#4.5.1 Intent report description enhancement | China Mobile Com. Corporation | approved | S5-233476 | - |
| S5-233565 | Clarifying the use of ObjectContext and defining another value Property for configuration expectations | China Mobile Com. Corporation | approved | S5-233474 | - |
| S5-233566 | pCR TR 28.912 Add conclusion and recommendation for enhancement for service support expectation | China Mobile E-Commerce Co.,Huawei | approved | S5-233481 | - |
| S5-233567 | pCR TR 28.912 Rapporteur on clause 4 | Huawei | approved | S5-233272 | - |
| S5-233568 | pCR TR 28.912 Rapporteur clean up on clause 6 | Huawei | approved | S5-233273 | - |
| S5-233569 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | SA5 Vice chair (Huawei) | noted | S5-233319 | - |
| S5-233570 | Discussion paper on applicability of service profile parameters for intent | L.M. Ericsson Limited, Deutsche Telekom | endorsed | S5-233323 | - |
| S5-233571 | Discussion paper on ServAttrCom and Intent | L.M. Ericsson Limited, Deutsche Telekom | endorsed | S5-233324 | - |
| S5-233572 | pCR TR 28.836 Add description of network slice subnet instance in clause 4.2 | ZTE Corporation | approved | S5-233456 | - |
| S5-233573 | Add background information on the 5G features QoS and slicing | Nokia, Nokia Shanghai Bell | approved | S5-233529 | - |
| S5-233574 | pCR28.908 Rapporteur clean-up & clarifications | NEC, Intel | approved | S5-233381 | - |
| S5-233575 | pCR TR28.908 Description for AIML update control | Nokia | approved | S5-233224 | - |
| S5-233576 | pCR 28.908 Add description for ML entity re-training | Intel, NEC | approved | S5-233338 | - |
| S5-233577 | pCR 28.908 Add description for ML entity joint training | Intel, NEC | approved | S5-233340 | - |
| S5-233578 | pCR 28.908 Add use case and requirement on Model evaluation for ML testing | CATT | approved | S5-233515 | - |
| S5-233579 | pCR 28.908 Add potential solution on Model evaluation for ML testing | CATT | approved | S5-233516 | - |
| S5-233580 | pCR TR28.908 solution for configuration of AIML inference | Nokia | approved | S5-233226 | - |
| S5-233581 | pCR 28.864 Update Evaluation and Conclusion for KI#3 | China Telecommunication | approved | S5-233464 | - |
| S5-233582 | Discussion paper on summarization of TR 28.864 and work plan for MANWDAF | China Telecommunication | approved | S5-233465 | - |
| S5-233583 | DP on FM restructuring TS 28-545 | Ericsson Hungary Ltd | approved | S5-233537 | - |
| S5-233584 | SA5#148e E-Meeting Process | WG Chair | noted | S5-233193 | - |
| S5-233585 | issue#4.5.1 Intent report potential solution#1 enhancement | China Mobile Com. Corporation | approved | S5-233477 | - |
| S5-233586 | pCR TR 28.836 Add procedures for network slice (subnet) delivering and assurance | Huawei, Deutsche Telekom,China Mobile | approved | S5-233278 | - |
| S5-233587 | pCR TR 28.908 Update the solution of AI/ML update control | Huawei | approved | S5-233400 | - |
| S5-233588 | Rel 18 pCR TR 28.908 Enhancement to solutions on AIML trustworthiness | Nokia, Nokia Shanghai Bell | approved | S5-233269 | - |
| S5-233589 | Rel 18 pCR TR 28.908 Evaluation for AI/ML trustworthiness | Nokia, Nokia Shanghai Bell | approved | S5-233270 | - |
| S5-233590 | pCR TR28.908 solution for AIML inference emulation | Nokia | approved | S5-233225 | - |
| S5-233593 | Rel-18 pCR TR 28.831 Add a new key issue for Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | approved | S5-233264 | - |
| S5-233594 | Rel-18 pCR TR 28.831 Add potential requirements for KI for Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | approved | S5-233265 | - |
| S5-233595 | Rel-18 CR 28.831 Improve description of error response body format (error response format) | Nokia, Nokia Shanghai Bell | approved | S5-233286 | - |
| S5-233596 | Rel-18 CR 28.831 Clarify definition of the type property (error response format) | Nokia, Nokia Shanghai Bell | approved | S5-233287 | - |
| S5-233597 | Rel-18 CR 28.831 Clarify and restructure definition of the reason property for GET (error response format) | Nokia, Nokia Shanghai Bell | approved | S5-233288 | - |
| S5-233598 | mRel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating attributes (error response format) | Nokia, Nokia Shanghai Bell | approved | S5-233289 | - |
| S5-233599 | Rel-18 CR 28.831 Clarify and restructure definition of the reason property for manipulating objects (error response format) | Nokia, Nokia Shanghai Bell | approved | S5-233290 | - |
| S5-233600 | Rel-18 CR 28.831 Add clause on Error reasons for application layer errors (error response format) | Nokia, Nokia Shanghai Bell | approved | S5-233291 | - |
| S5-233601 | Rel-18 CR 28.831 Add key issue on node selection | Nokia, Nokia Shanghai Bell | approved | S5-233292 | - |
| S5-233602 | Rel-18 CR 28.831 Add CR proposal for issue 2 Targeted notification subscriptions | Nokia, Nokia Shanghai Bell | approved | S5-233294 | - |
| S5-233603 | Rel-18 CR 28.831 Add key issue and solution on MnS versioning | Nokia, Nokia Shanghai Bell | approved | S5-233293 | - |
| S5-233604 | Add New Solution for configuration of latency for URLLC in RAN | China Unicom | approved | S5-233501 | - |
| S5-233605 | Add Conclusion and recommendation for issue#4 | China Unicom | approved | S5-233502 | - |
| S5-233606 | Discussion on URLLC performance management related to reliability | China Unicom | endorsed | S5-233512 | - |
| S5-233607 | pCR 28.834 Adding editorial changes | China Mobile Com. Corporation,Huawei | approved | S5-233490 | - |
| S5-233608 | Presentation sheet of TR 28.834 for SA Approval | China Mobile Com. Corporation | approved | S5-233489 | - |
| S5-233609 | Rel-18 pCR 28.837 Problem Statement and solution on Management of MDT of MRO for inter-system handover for voice fallback | Nokia, Nokia Shanghai Bell | approved | S5-233335 | - |
| S5-233610 | pCR 28.841 Editorial clean-up | CATT,Huawei | approved | S5-233517 | - |
| S5-233611 | Add key issue on enhancing the description of management data | Nokia, Nokia Shanghai Bell, Microsift | approved | S5-233528 | - |
| S5-233612 | Rel-18 pCR TR 28.842 Add key issue for reporting of consolidated management data | Ericsson Inc. | approved | S5-233518 | - |
| S5-233613 | Reply to: Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR | Samsung | approved | S5-233551 | - |
| S5-233614 | pCR 28.913 Conclusion for KI#2 Energy Consumption of containerized VNF/ VNFCs | Huawei, Deutsche Telekom | approved | S5-233239 | - |
| S5-233615 | pCR 28.913 Conclusion for KI#3 Energy Consumption of RAN nodes | Huawei, Deutsche Telekom | approved | S5-233240 | - |
| S5-233616 | pCR 28.913 Conclusion for KI#4 EE KPI for V2X network slice | Huawei, Deutsche Telekom | approved | S5-233241 | - |
| S5-233617 | pCR 28.913 Conclusion for KI#7 Roles involved in EE KPI building | Huawei, Deutsche Telekom | approved | S5-233248 | - |
| S5-233618 | pCR 28.913 Conclusion for KI#5 Customer acceptance for QoS degradation to save energy | Huawei, Deutsche Telekom | approved | S5-233242 | - |
| S5-233619 | pCR 28.913 Conclusion for KI#9 RAN energy saving when using backup batteries | Huawei, Deutsche Telekom | approved | S5-233249 | - |
| S5-233620 | pCR 28.913 Solution and conclusion for KI#10 Digital sobriety | Huawei, Deutsche Telekom | approved | S5-233250 | - |
| S5-233621 | Rel-18 pCR 28.829 – Potential Solution for Energy utility and telecommunication coordinated rapid recovery of energy service | Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT | approved | S5-233233 | - |
| S5-233622 | Rel-18 pCR 28.829 – authorization | Nokia | approved | S5-233375 | - |
| S5-233623 | Rel-18 pCR 28.829 – Clean up | Samsung, EUTC, EDF, Deutsche Telekom, BMWK, NOVAMINT | approved | S5-233234 | - |
| S5-233624 | Reply LS on interface and exposure entities requirement for network slice management service | L.M. Ericsson Limited | approved | S5-233554 | - |
| S5-233626 | pCR TR 28.824 clean-up | Huawei | approved | S5-233386 | - |
| S5-233627 | pCR TR 28.824 Add conclusion and recommendation for network slice management capability exposure via CAPIF | Huawei | approved | S5-233387 | - |
| S5-233628 | pCR TR 28.824 Add conclusion and recommendation for filtering | Huawei | approved | S5-233478 | - |
| S5-233629 | pCR 28.824 Correction of termiologies | Huawei | approved | S5-233356 | - |
| S5-233630 | pCR 28.824 Remove the EN about exposed management services | China Mobile E-Commerce Co. | approved | S5-233483 | - |
| S5-233631 | pCR 28.903 Add recommendation for resource reservation related issue | Huawei | approved | S5-233357 | - |
| S5-233632 | pCR 28.903 Add recommendation for SLA related issue | Huawei | approved | S5-233358 | - |
| S5-233633 | pCR 28.903 Federated EAS Management | Samsung Electronics France SA | approved | S5-233395 | - |
| S5-233634 | pCR 28.903 Federation Management | Samsung Electronics France SA | approved | S5-233396 | - |
| S5-233635 | pCR 28.903 EAS Mobility | Samsung Electronics France SA | approved | S5-233397 | - |
| S5-233636 | Add New Solution for URLLC performance management related to reliability | China Unicom | approved | S5-233499 | - |
| S5-233643 | CH agenda and time plan | WG vice Chair (Matrixx Software) | approved | S5-233184 | - |
| S5-233644 | Draft TS 28.203 | MATRIXX Software | approved | - | - |
| S5-233645 | Draft TS 28.204 | MATRIXX Software | approved | - | - |
| S5-233646 | Draft TR 28.826 | Ericsson | approved | - | - |
| S5-233647 | Draft TR 28.827 | Ericsson | approved | - | - |
| S5-233648 | Draft TR 28.839 | Huawei | approved | - | - |
| S5-233649 | Draft TR 28.843 | Huawei | approved | - | - |
| S5-233650 | Draft TR 28.844 | CATT | approved | - | - |
| S5-233651 | Draft TR 28.913 | Huawei | approved | - | - |
| S5-233652 | Draft TR 28.912 | Huawei | approved | - | - |
| S5-233653 | DP on Cancelling solutions | Huawei | noted | - | - |
| S5-233654 | DP Use of QBC and FBC | Ericsson | noted | - | - |
| S5-233655 | Reply to: LS on charging aspects for Ranging/Sidelink Positioning | current meeting | approved | - | - |
| S5-233656 | Rel-18 pCR 28.204 Introduction of the Scope | MATRIXX Software | approved | S5-233221 | - |
| S5-233657 | Rel-18 pCR 28.203 Introduce message flows | MATRIXX Software | approved | S5-233407 | - |
| S5-233658 | Rel-18 pCR 28.203 Introduce charging principles | MATRIXX Software | approved | S5-233377 | - |
| S5-233659 | Rel-18 pCR 28.203 Introduce charging scenarios principles | MATRIXX Software | approved | S5-233378 | - |
| S5-233660 | Rel-18 pCR 28.203 Introduce triggers | MATRIXX Software | approved | S5-233379 | - |
| S5-233661 | New WID on Charging Aspects of IMS Data Channel | China Mobile | agreed | S5-233364 | - |
| S5-233662 | New SID on Charging Aspects of Ranging and Sidelink Positioning | China Telecommunications | agreed | S5-233460 | - |
| S5-233663 | Draft TR 28.910 | China Mobile | approved | - | - |
| S5-233664 | Draft TR 28.863 | Huawei | approved | - | - |
| S5-233665 | Draft TR 28.908 | Intel | approved | - | - |
| S5-233666 | Rel-18 pCR 28.826 Correcting use cases and key issues in clause 6.2 | Ericsson LM | approved | S5-233304 | - |
| S5-233667 | Draft TR 28.903 | Huawei | approved | - | - |
| S5-233668 | Rel-18 pCR 28.840 Document Structure Update | Nokia, Nokia Shanghai Bell | approved | S5-233523 | - |
| S5-233669 | Introduction of charging modes | CATT | approved | S5-233486 | - |
| S5-233670 | Add charging scenarios and key issues for Satellite backhaul on converged charging for data connection | CATT | approved | S5-233488 | - |
| S5-233671 | New WID on Charging Aspects for 5G Multicast-broadcast Services | China Mobile M2M Company Ltd. | agreed | S5-233462 | - |
| S5-233672 | Add charging scenarios and key issues for Satellite access on converged charging for access connection | CATT | approved | S5-233487 | - |
| S5-233673 | Introduction of general background and satellite access architecture and functionality | CATT | approved | S5-233484 | - |
| S5-233674 | Rel-18 pCR 28.827 Updating evaluation and conclusion in clause 7.2 | Ericsson LM | approved | S5-233311 | - |
| S5-233675 | Rel-18 pCR 28.827 Adding conclusion in clause 7.1 | Ericsson LM | approved | S5-233309 | - |
| S5-233676 | Draft TR 28.841 | China Unicom | approved | - | - |
| S5-233677 | Rel-18 pCR 28.827 Adding conclusion in clause 7.4 | Ericsson LM | approved | S5-233314 | - |
| S5-233678 | pCR TR 28.840 Abbreviations chapter Update | Nokia, Nokia Shanghai Bell | approved | S5-233530 | - |
| S5-233679 | Draft TR 28.864 | China Telecom | approved | - | - |
| S5-233680 | Rel-18 pCR 28.827 Updating the conclusion | Ericsson LM | approved | S5-233318 | - |
| S5-233681 | Rel-18 pCR 28.826 New solutions for documenting binding in clause 6.3 | Ericsson LM | approved | S5-233305 | - |
| S5-233682 | Rel-18 CR 32.260 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | agreed | S5-233519 | - |
| S5-233683 | Rel-18 CR 32.291 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | agreed | S5-233520 | - |
| S5-233684 | Rel-18 CR 32.298 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | agreed | S5-233521 | - |
| S5-233685 | Draft TR 28.834 | China Mobile | approved | - | - |
| S5-233686 | Draft TR 28.831 | Nokia | approved | - | - |
| S5-233687 | Draft TR 28.837 | Nokia | approved | - | - |
| S5-233688 | Draft TR 28.842 | Nokia | approved | - | - |
| S5-233689 | Correction the charging principle for alignment | Huawei | agreed | S5-233448 | - |
| S5-233690 | Draft TR 28.824 | Alibaba | approved | - | - |
| S5-233691 | Rel-18 pCR 28.826 Updating cancelling using charging session identifier clause 5.4 | Ericsson LM | approved | S5-233303 | - |
| S5-233692 | Rel-18 pCR 28.827 Clarify Solution #2.10 for charging session between V-CHF and H-CHF per UE | Huawei | approved | S5-233420 | - |
| S5-233693 | Rel-18 pCR 28.827 Clarify Solution #2.11 for charging message exchange between V-CHF and H-CHF per charging data request | Huawei | approved | S5-233422 | - |
| S5-233694 | Rel-17 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | agreed | S5-233251 | - |
| S5-233695 | Rel-17 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | agreed | S5-233255 | - |
| S5-233696 | Rel-18 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | agreed | S5-233256 | - |
| S5-233697 | Rel-17 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | agreed | S5-233259 | - |
| S5-233698 | Rel-18 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | agreed | S5-233260 | - |
| S5-233699 | Rel-18 pCR 28.826 Update the evaluation for the cancelling | Huawei | approved | S5-233417 | - |
| S5-233700 | Draft TR 28.832 | China Unicom | approved | - | - |
| S5-233701 | Rel-18 pCR 28.826 Add the solution for the undefined CDR | Huawei | approved | S5-233414 | - |
| S5-233702 | Rel-18 pCR 28.826 Update the key issue, evaluation and conclusion in the clause 6 | Huawei | approved | S5-233419 | - |
| S5-233703 | Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management | Huawei | approved | S5-233432 | - |
| S5-233704 | Rel18 pCR TR 28.839 Addition of the solution for the 5GS bridge management and configuration | Huawei | approved | S5-233433 | - |
| S5-233705 | Draft TR 28.829 | Samsung | approved | - | - |
| S5-233706 | Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN station | Huawei | approved | S5-233435 | - |
| S5-233707 | Rel18 pCR TR 28.839 Addition of the solution for the TSC from TSN station to TSN system | Huawei | approved | S5-233436 | - |
| S5-233708 | Rel18 pCR TR28.843 Addition of the Key issues about architecture mapping | Huawei | approved | S5-233439 | - |
| S5-233709 | Rel18 pCR TR28.843 Addition of the Key issues about charging principles clarification | Huawei | approved | S5-233440 | - |
| S5-233710 | draft TR 28.836 | Ericsson | approved | - | - |
| S5-233711 | Reply to: LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM) | China Mobile | approved | S5-233547 | - |
| S5-233712 | Reply to: LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management” | China Mobile | approved | S5-233548 | - |
| S5-233715 | Rel-18 pCR 28.826 New solutions for CDR handling in clause 6.3 | Ericsson LM | approved | S5-233306 | - |
| S5-233716 | Rel-18 pCR 28.827 Correcting key issue for solution 1.4 | Ericsson LM | approved | S5-233308 | - |

### A2: Tdoc decision timing

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| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S5-233176 | 27/04/2023 08:35:35 | approved |
| S5-233177 | 27/04/2023 08:35:38 | noted |
| S5-233178 | 25/04/2023 13:48:19 | approved |
| S5-233180 | 27/04/2023 08:40:58 | noted |
| S5-233181 | 27/04/2023 08:41:03 | noted |
| S5-233184 | 25/04/2023 07:16:25 | revised |
| S5-233185 | 25/04/2023 07:18:48 | noted |
| S5-233186 | 28/04/2023 13:06:18 | noted |
| S5-233187 | 27/04/2023 08:35:58 | approved |
| S5-233188 | 27/04/2023 08:41:15 | noted |
| S5-233189 | 27/04/2023 08:46:14 | withdrawn |
| S5-233190 | 27/04/2023 08:36:23 | noted |
| S5-233191 | 27/04/2023 08:40:46 | revised |
| S5-233192 | 27/04/2023 08:46:15 | withdrawn |
| S5-233193 | 27/04/2023 08:36:32 | revised |
| S5-233194 | 27/04/2023 08:46:35 | replied to |
| S5-233195 | 25/04/2023 07:18:25 | postponed |
| S5-233196 | 27/04/2023 09:11:47 | replied to |
| S5-233197 | 27/04/2023 08:37:30 | noted |
| S5-233198 | 27/04/2023 08:47:48 | postponed |
| S5-233199 | 27/04/2023 09:10:46 | replied to |
| S5-233200 | 27/04/2023 09:02:28 | replied to |
| S5-233201 | 27/04/2023 08:37:34 | noted |
| S5-233202 | 27/04/2023 08:37:36 | noted |
| S5-233203 | 27/04/2023 09:12:54 | noted |
| S5-233204 | 27/04/2023 09:12:57 | noted |
| S5-233205 | 27/04/2023 09:13:04 | noted |
| S5-233206 | 27/04/2023 09:13:07 | noted |
| S5-233207 | 25/04/2023 07:16:38 | noted |
| S5-233207 | 25/04/2023 07:18:03 | replied to |
| S5-233208 | 27/04/2023 09:11:32 | postponed |
| S5-233209 | 27/04/2023 08:37:47 | noted |
| S5-233210 | 27/04/2023 08:37:51 | noted |
| S5-233211 | 27/04/2023 08:37:54 | noted |
| S5-233212 | 27/04/2023 09:26:49 | noted |
| S5-233213 | 27/04/2023 08:37:42 | noted |
| S5-233214 | 27/04/2023 09:13:41 | replied to |
| S5-233215 | 27/04/2023 09:26:55 | postponed |
| S5-233216 | 27/04/2023 09:13:15 | noted |
| S5-233217 | 27/04/2023 09:27:02 | noted |
| S5-233218 | 27/04/2023 09:08:14 | postponed |
| S5-233219 | 25/04/2023 07:22:50 | approved |
| S5-233220 | 25/04/2023 07:22:53 | approved |
| S5-233221 | 25/04/2023 07:23:01 | revised |
| S5-233222 | 25/04/2023 07:24:05 | approved |
| S5-233223 | 25/04/2023 07:24:06 | approved |
| S5-233224 | 27/04/2023 14:30:56 | revised |
| S5-233225 | 27/04/2023 14:34:43 | revised |
| S5-233226 | 27/04/2023 14:35:25 | revised |
| S5-233227 | 27/04/2023 14:37:17 | noted |
| S5-233228 | 27/04/2023 13:21:25 | available |
| S5-233229 | 27/04/2023 13:21:28 | available |
| S5-233231 | 27/04/2023 13:21:47 | revised |
| S5-233232 | 27/04/2023 13:20:05 | noted |
| S5-233233 | 27/04/2023 15:10:15 | revised |
| S5-233234 | 27/04/2023 15:10:32 | revised |
| S5-233235 | 27/04/2023 15:10:38 | noted |
| S5-233236 | 27/04/2023 13:20:10 | noted |
| S5-233237 | 27/04/2023 13:20:10 | noted |
| S5-233238 | 27/04/2023 15:05:57 | noted |
| S5-233239 | 27/04/2023 15:06:05 | revised |
| S5-233240 | 27/04/2023 15:08:04 | revised |
| S5-233241 | 27/04/2023 15:08:14 | revised |
| S5-233242 | 27/04/2023 15:09:08 | revised |
| S5-233243 | 27/04/2023 08:48:03 | replied to |
| S5-233244 | 27/04/2023 08:48:54 | noted |
| S5-233245 | 27/04/2023 08:49:03 | replied to |
| S5-233246 | 27/04/2023 08:56:31 | replied to |
| S5-233247 | 27/04/2023 15:08:48 | noted |
| S5-233248 | 27/04/2023 15:08:27 | revised |
| S5-233249 | 27/04/2023 15:09:18 | revised |
| S5-233250 | 27/04/2023 15:09:26 | revised |
| S5-233251 | 25/04/2023 09:11:59 | revised |
| S5-233253 | 25/04/2023 09:12:51 | available |
| S5-233255 | 25/04/2023 09:12:18 | revised |
| S5-233256 | 25/04/2023 09:12:31 | revised |
| S5-233257 | 25/04/2023 09:12:39 | revised |
| S5-233258 | 25/04/2023 09:14:31 | available |
| S5-233259 | 25/04/2023 09:14:09 | revised |
| S5-233260 | 25/04/2023 09:13:51 | revised |
| S5-233261 | 25/04/2023 09:14:40 | available |
| S5-233262 | 25/04/2023 09:14:43 | available |
| S5-233263 | 27/04/2023 09:27:45 | revised |
| S5-233264 | 27/04/2023 14:40:19 | revised |
| S5-233265 | 27/04/2023 14:40:28 | revised |
| S5-233266 | 27/04/2023 14:40:41 | noted |
| S5-233267 | 27/04/2023 14:40:45 | noted |
| S5-233268 | 27/04/2023 14:40:48 | noted |
| S5-233269 | 27/04/2023 14:36:38 | revised |
| S5-233270 | 27/04/2023 14:36:49 | revised |
| S5-233271 | 27/04/2023 14:31:51 | approved |
| S5-233272 | 27/04/2023 14:12:07 | revised |
| S5-233273 | 27/04/2023 14:12:18 | revised |
| S5-233274 | 27/04/2023 13:21:56 | revised |
| S5-233275 | 27/04/2023 14:11:39 | approved |
| S5-233276 | 27/04/2023 14:13:56 | approved |
| S5-233277 | 27/04/2023 14:14:04 | approved |
| S5-233278 | 27/04/2023 14:17:26 | revised |
| S5-233279 | 27/04/2023 14:17:34 | approved |
| S5-233280 | 27/04/2023 14:16:00 | noted |
| S5-233281 | 27/04/2023 15:05:42 | noted |
| S5-233282 | 27/04/2023 14:32:56 | noted |
| S5-233283 | 27/04/2023 15:25:40 | noted |
| S5-233284 | 27/04/2023 14:40:09 | noted |
| S5-233285 | 27/04/2023 14:40:53 | approved |
| S5-233286 | 27/04/2023 14:41:04 | revised |
| S5-233287 | 27/04/2023 14:41:13 | revised |
| S5-233288 | 27/04/2023 14:41:23 | revised |
| S5-233289 | 27/04/2023 14:41:30 | revised |
| S5-233290 | 27/04/2023 14:41:38 | revised |
| S5-233291 | 27/04/2023 14:41:46 | revised |
| S5-233292 | 27/04/2023 14:41:55 | revised |
| S5-233293 | 27/04/2023 14:42:15 | revised |
| S5-233294 | 27/04/2023 14:42:05 | revised |
| S5-233295 | 25/04/2023 09:14:50 | agreed |
| S5-233296 | 25/04/2023 09:14:50 | agreed |
| S5-233297 | 25/04/2023 09:14:58 | available |
| S5-233298 | 25/04/2023 09:15:01 | available |
| S5-233299 | 25/04/2023 09:15:13 | noted |
| S5-233300 | 25/04/2023 09:15:59 | noted |
| S5-233301 | 25/04/2023 09:16:02 | noted |
| S5-233302 | 25/04/2023 07:26:36 | noted |
| S5-233303 | 25/04/2023 07:26:43 | revised |
| S5-233304 | 25/04/2023 07:29:31 | revised |
| S5-233305 | 25/04/2023 07:30:09 | revised |
| S5-233306 | 25/04/2023 07:30:43 | revised |
| S5-233307 | 25/04/2023 07:31:12 | noted |
| S5-233308 | 25/04/2023 09:02:28 | revised |
| S5-233309 | 25/04/2023 09:06:25 | revised |
| S5-233310 | 25/04/2023 09:06:36 | approved |
| S5-233311 | 25/04/2023 09:06:43 | revised |
| S5-233312 | 25/04/2023 09:06:55 | noted |
| S5-233313 | 25/04/2023 09:07:01 | approved |
| S5-233314 | 25/04/2023 09:07:11 | revised |
| S5-233315 | 25/04/2023 09:07:39 | noted |
| S5-233316 | 25/04/2023 09:07:34 | noted |
| S5-233317 | 25/04/2023 09:07:35 | noted |
| S5-233318 | 25/04/2023 09:07:50 | revised |
| S5-233319 | 27/04/2023 08:37:03 | revised |
| S5-233320 | 27/04/2023 08:37:12 | available |
| S5-233321 | 27/04/2023 14:30:35 | noted |
| S5-233322 | 27/04/2023 09:14:26 | revised |
| S5-233323 | 27/04/2023 14:14:53 | revised |
| S5-233324 | 27/04/2023 14:15:30 | revised |
| S5-233325 | 27/04/2023 14:16:10 | approved |
| S5-233326 | 27/04/2023 14:16:45 | noted |
| S5-233327 | 27/04/2023 14:17:16 | noted |
| S5-233328 | 27/04/2023 08:38:09 | replied to |
| S5-233329 | 27/04/2023 14:39:26 | noted |
| S5-233330 | 27/04/2023 14:39:28 | noted |
| S5-233331 | 27/04/2023 14:39:31 | noted |
| S5-233332 | 27/04/2023 14:39:35 | noted |
| S5-233333 | 27/04/2023 14:39:39 | noted |
| S5-233334 | 27/04/2023 14:39:40 | noted |
| S5-233335 | 27/04/2023 15:00:48 | revised |
| S5-233336 | 27/04/2023 15:00:54 | approved |
| S5-233337 | 27/04/2023 15:02:46 | noted |
| S5-233338 | 27/04/2023 14:32:00 | revised |
| S5-233339 | 27/04/2023 14:31:15 | available |
| S5-233340 | 27/04/2023 14:33:15 | revised |
| S5-233341 | 27/04/2023 14:37:05 | available |
| S5-233342 | 27/04/2023 14:35:06 | available |
| S5-233343 | 27/04/2023 14:35:42 | available |
| S5-233344 | 27/04/2023 14:37:29 | approved |
| S5-233345 | 27/04/2023 14:12:39 | approved |
| S5-233346 | 27/04/2023 13:20:26 | noted |
| S5-233347 | 27/04/2023 14:17:38 | approved |
| S5-233348 | 27/04/2023 14:39:48 | noted |
| S5-233349 | 27/04/2023 14:43:11 | approved |
| S5-233350 | 27/04/2023 14:44:40 | approved |
| S5-233351 | 27/04/2023 14:44:50 | revised |
| S5-233352 | 27/04/2023 14:45:00 | approved |
| S5-233353 | 27/04/2023 14:45:03 | approved |
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| S5-233355 | 27/04/2023 15:25:07 | approved |
| S5-233356 | 27/04/2023 15:25:26 | revised |
| S5-233357 | 27/04/2023 15:25:57 | revised |
| S5-233358 | 27/04/2023 15:26:08 | revised |
| S5-233359 | 27/04/2023 15:26:14 | approved |
| S5-233360 | 27/04/2023 15:26:14 | approved |
| S5-233361 | 27/04/2023 15:25:48 | approved |
| S5-233362 | 27/04/2023 15:02:05 | available |
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| S5-233364 | 25/04/2023 07:19:25 | revised |
| S5-233365 | 27/04/2023 08:37:25 | noted |
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| S5-233367 | 27/04/2023 15:09:58 | approved |
| S5-233368 | 27/04/2023 15:09:58 | approved |
| S5-233369 | 27/04/2023 15:09:40 | approved |
| S5-233370 | 27/04/2023 15:09:43 | approved |
| S5-233371 | 27/04/2023 15:09:52 | approved |
| S5-233372 | 27/04/2023 15:09:53 | approved |
| S5-233373 | 27/04/2023 15:10:06 | approved |
| S5-233374 | 27/04/2023 15:10:07 | approved |
| S5-233375 | 27/04/2023 15:10:23 | revised |
| S5-233376 | 25/04/2023 07:20:39 | approved |
| S5-233377 | 25/04/2023 07:20:47 | revised |
| S5-233378 | 25/04/2023 07:20:55 | revised |
| S5-233379 | 25/04/2023 07:21:04 | revised |
| S5-233380 | 25/04/2023 07:21:06 | approved |
| S5-233380 | 25/04/2023 07:21:19 | noted |
| S5-233381 | 27/04/2023 14:30:44 | revised |
| S5-233382 | 27/04/2023 14:32:14 | approved |
| S5-233383 | 27/04/2023 14:37:25 | approved |
| S5-233384 | 27/04/2023 14:33:52 | approved |
| S5-233385 | 27/04/2023 09:27:27 | approved |
| S5-233386 | 27/04/2023 15:11:17 | revised |
| S5-233387 | 27/04/2023 15:11:26 | revised |
| S5-233388 | 27/04/2023 13:22:08 | revised |
| S5-233389 | 27/04/2023 13:22:47 | revised |
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| S5-233391 | 27/04/2023 09:44:13 | revised |
| S5-233392 | 27/04/2023 13:23:08 | noted |
| S5-233393 | 27/04/2023 14:42:21 | noted |
| S5-233394 | 27/04/2023 13:24:00 | noted |
| S5-233395 | 27/04/2023 15:26:24 | revised |
| S5-233396 | 27/04/2023 15:26:32 | revised |
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| S5-233398 | 27/04/2023 14:40:05 | noted |
| S5-233399 | 27/04/2023 14:33:58 | noted |
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| S5-233401 | 27/04/2023 15:01:02 | noted |
| S5-233402 | 27/04/2023 15:01:28 | noted |
| S5-233403 | 27/04/2023 15:01:53 | noted |
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| S5-233408 | 27/04/2023 09:44:52 | noted |
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| S5-233411 | 27/04/2023 13:21:14 | approved |
| S5-233412 | 25/04/2023 07:31:15 | noted |
| S5-233413 | 25/04/2023 07:31:16 | noted |
| S5-233414 | 25/04/2023 07:42:45 | revised |
| S5-233415 | 25/04/2023 09:00:58 | noted |
| S5-233416 | 25/04/2023 09:00:59 | noted |
| S5-233417 | 25/04/2023 07:27:50 | revised |
| S5-233418 | 25/04/2023 09:01:05 | approved |
| S5-233419 | 25/04/2023 09:01:12 | revised |
| S5-233420 | 25/04/2023 09:07:59 | revised |
| S5-233421 | 25/04/2023 09:08:04 | noted |
| S5-233422 | 25/04/2023 09:08:16 | revised |
| S5-233423 | 25/04/2023 09:08:21 | noted |
| S5-233424 | 25/04/2023 09:09:34 | available |
| S5-233425 | 25/04/2023 09:09:39 | noted |
| S5-233426 | 25/04/2023 09:09:45 | available |
| S5-233427 | 28/04/2023 13:04:56 | available |
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| S5-233429 | 25/04/2023 09:10:26 | available |
| S5-233430 | 25/04/2023 09:35:15 | approved |
| S5-233431 | 25/04/2023 09:35:32 | available |
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| S5-233433 | 25/04/2023 11:41:00 | revised |
| S5-233434 | 25/04/2023 11:41:08 | noted |
| S5-233435 | 25/04/2023 11:41:14 | revised |
| S5-233436 | 25/04/2023 11:41:23 | revised |
| S5-233437 | 25/04/2023 12:58:52 | approved |
| S5-233438 | 25/04/2023 12:58:54 | approved |
| S5-233439 | 25/04/2023 12:59:01 | revised |
| S5-233440 | 25/04/2023 12:59:08 | revised |
| S5-233441 | 25/04/2023 12:59:12 | noted |
| S5-233442 | 25/04/2023 12:59:19 | noted |
| S5-233443 | 25/04/2023 12:59:20 | noted |
| S5-233444 | 25/04/2023 12:59:21 | noted |
| S5-233445 | 25/04/2023 12:59:29 | noted |
| S5-233446 | 25/04/2023 12:59:29 | noted |
| S5-233447 | 25/04/2023 12:59:30 | noted |
| S5-233448 | 25/04/2023 09:16:12 | revised |
| S5-233449 | 25/04/2023 09:16:25 | available |
| S5-233450 | 25/04/2023 09:16:31 | available |
| S5-233451 | 25/04/2023 09:16:32 | available |
| S5-233452 | 25/04/2023 09:16:34 | available |
| S5-233453 | 25/04/2023 07:25:26 | noted |
| S5-233454 | 25/04/2023 07:25:33 | available |
| S5-233455 | 25/04/2023 07:25:41 | available |
| S5-233456 | 27/04/2023 14:17:03 | revised |
| S5-233457 | 27/04/2023 13:20:19 | noted |
| S5-233458 | 27/04/2023 13:21:03 | noted |
| S5-233459 | 27/04/2023 13:20:57 | noted |
| S5-233460 | 25/04/2023 07:20:22 | revised |
| S5-233461 | 27/04/2023 14:39:53 | noted |
| S5-233462 | 25/04/2023 07:20:06 | revised |
| S5-233463 | 25/04/2023 07:19:57 | noted |
| S5-233464 | 27/04/2023 14:37:41 | revised |
| S5-233465 | 27/04/2023 14:37:53 | revised |
| S5-233466 | 27/04/2023 14:40:00 | noted |
| S5-233467 | 27/04/2023 14:39:17 | noted |
| S5-233468 | 27/04/2023 14:39:21 | noted |
| S5-233469 | 27/04/2023 15:10:47 | approved |
| S5-233470 | 27/04/2023 15:10:57 | noted |
| S5-233471 | 27/04/2023 15:11:01 | noted |
| S5-233472 | 27/04/2023 14:17:11 | noted |
| S5-233473 | 27/04/2023 13:22:29 | revised |
| S5-233474 | 27/04/2023 13:23:46 | revised |
| S5-233475 | 27/04/2023 13:23:52 | noted |
| S5-233476 | 27/04/2023 13:23:19 | revised |
| S5-233477 | 27/04/2023 13:23:33 | revised |
| S5-233478 | 27/04/2023 15:25:16 | revised |
| S5-233479 | 27/04/2023 14:39:54 | noted |
| S5-233480 | 27/04/2023 14:38:10 | noted |
| S5-233481 | 27/04/2023 14:11:53 | revised |
| S5-233482 | 25/04/2023 09:01:16 | noted |
| S5-233483 | 27/04/2023 15:25:34 | revised |
| S5-233484 | 25/04/2023 13:01:06 | revised |
| S5-233485 | 25/04/2023 13:01:10 | approved |
| S5-233486 | 25/04/2023 13:01:18 | revised |
| S5-233487 | 25/04/2023 13:01:30 | revised |
| S5-233488 | 25/04/2023 13:01:39 | revised |
| S5-233489 | 27/04/2023 15:00:13 | revised |
| S5-233490 | 27/04/2023 14:45:27 | revised |
| S5-233493 | 27/04/2023 15:11:06 | noted |
| S5-233494 | 27/04/2023 15:11:08 | noted |
| S5-233495 | 27/04/2023 14:38:24 | noted |
| S5-233496 | 27/04/2023 14:38:27 | noted |
| S5-233497 | 27/04/2023 13:19:27 | agreed |
| S5-233498 | 27/04/2023 15:08:43 | noted |
| S5-233499 | 27/04/2023 14:43:52 | revised |
| S5-233500 | 27/04/2023 14:43:56 | noted |
| S5-233501 | 27/04/2023 14:43:29 | revised |
| S5-233502 | 27/04/2023 14:43:38 | revised |
| S5-233503 | 27/04/2023 15:08:55 | noted |
| S5-233504 | 27/04/2023 15:00:22 | noted |
| S5-233505 | 27/04/2023 15:00:26 | noted |
| S5-233506 | 27/04/2023 13:19:32 | noted |
| S5-233507 | 27/04/2023 15:00:27 | noted |
| S5-233508 | 27/04/2023 15:00:34 | noted |
| S5-233509 | 27/04/2023 15:00:34 | noted |
| S5-233510 | 27/04/2023 13:19:41 | noted |
| S5-233511 | 27/04/2023 14:44:00 | noted |
| S5-233512 | 27/04/2023 14:44:08 | revised |
| S5-233513 | 27/04/2023 13:24:10 | noted |
| S5-233514 | 27/04/2023 15:00:35 | noted |
| S5-233515 | 27/04/2023 14:34:09 | revised |
| S5-233516 | 27/04/2023 14:34:26 | revised |
| S5-233517 | 27/04/2023 15:01:05 | noted |
| S5-233517 | 27/04/2023 15:01:44 | revised |
| S5-233518 | 27/04/2023 15:02:54 | revised |
| S5-233519 | 25/04/2023 09:16:47 | revised |
| S5-233520 | 25/04/2023 09:33:57 | revised |
| S5-233521 | 25/04/2023 09:34:40 | revised |
| S5-233522 | 25/04/2023 09:01:17 | noted |
| S5-233523 | 25/04/2023 12:58:09 | revised |
| S5-233524 | 27/04/2023 13:19:55 | revised |
| S5-233525 | 27/04/2023 14:33:41 | available |
| S5-233526 | 27/04/2023 14:32:36 | available |
| S5-233527 | 27/04/2023 09:44:36 | noted |
| S5-233528 | 27/04/2023 15:02:37 | revised |
| S5-233529 | 27/04/2023 14:17:53 | revised |
| S5-233530 | 25/04/2023 12:58:22 | revised |
| S5-233531 | 27/04/2023 15:05:10 | noted |
| S5-233532 | 27/04/2023 15:02:40 | noted |
| S5-233533 | 25/04/2023 12:58:15 | noted |
| S5-233534 | 25/04/2023 12:58:32 | reserved |
| S5-233534 | 02/05/2023 07:31:46 | approved |
| S5-233535 | 27/04/2023 15:05:47 | approved |
| S5-233536 | 27/04/2023 15:09:00 | noted |
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| S5-233538 | 27/04/2023 14:30:26 | noted |
| S5-233539 | 27/04/2023 14:36:25 | noted |
| S5-233540 | 27/04/2023 09:01:33 | postponed |
| S5-233541 | 27/04/2023 09:01:41 | postponed |
| S5-233542 | 25/04/2023 07:18:33 | postponed |
| S5-233543 | 27/04/2023 08:40:14 | approved |
| S5-233544 | 27/04/2023 09:09:37 | noted |
| S5-233545 | 27/04/2023 08:48:09 | approved |
| S5-233546 | 27/04/2023 09:11:18 | approved |
| S5-233547 | 27/04/2023 08:49:12 | approved |
| S5-233547 | 27/04/2023 08:49:55 | revised |
| S5-233548 | 27/04/2023 08:56:32 | approved |
| S5-233548 | 27/04/2023 08:57:09 | revised |
| S5-233548 | 27/04/2023 12:05:30 | available |
| S5-233548 | 27/04/2023 12:05:37 | revised |
| S5-233549 | 27/04/2023 08:46:37 | reserved |
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| S5-233551 | 27/04/2023 09:02:40 | approved |
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| S5-233552 | 27/04/2023 08:36:13 | approved |
| S5-233553 | 27/04/2023 08:40:49 | noted |
| S5-233554 | 27/04/2023 09:14:29 | approved |
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| S5-233556 | 27/04/2023 09:44:26 | reserved |
| S5-233557 | 27/04/2023 13:19:56 | agreed |
| S5-233558 | 27/04/2023 13:21:48 | approved |
| S5-233559 | 27/04/2023 13:21:57 | approved |
| S5-233560 | 27/04/2023 13:22:09 | approved |
| S5-233561 | 27/04/2023 13:22:30 | approved |
| S5-233562 | 27/04/2023 13:22:48 | approved |
| S5-233563 | 27/04/2023 13:23:02 | approved |
| S5-233564 | 27/04/2023 13:23:21 | approved |
| S5-233565 | 27/04/2023 13:23:47 | approved |
| S5-233566 | 27/04/2023 14:11:54 | approved |
| S5-233567 | 27/04/2023 14:12:08 | approved |
| S5-233568 | 27/04/2023 14:12:19 | approved |
| S5-233569 | 27/04/2023 08:37:04 | noted |
| S5-233570 | 27/04/2023 14:15:06 | reserved |
| S5-233571 | 27/04/2023 14:15:32 | reserved |
| S5-233572 | 27/04/2023 14:17:04 | approved |
| S5-233573 | 27/04/2023 14:17:54 | approved |
| S5-233574 | 27/04/2023 14:30:45 | approved |
| S5-233575 | 27/04/2023 14:30:57 | approved |
| S5-233576 | 27/04/2023 14:32:01 | approved |
| S5-233577 | 27/04/2023 14:33:16 | approved |
| S5-233578 | 27/04/2023 14:34:11 | approved |
| S5-233579 | 27/04/2023 14:34:27 | approved |
| S5-233580 | 27/04/2023 14:35:26 | approved |
| S5-233581 | 27/04/2023 14:37:42 | approved |
| S5-233582 | 27/04/2023 14:37:54 | approved |
| S5-233583 | 27/04/2023 14:38:20 | approved |
| S5-233584 | 27/04/2023 08:36:35 | noted |
| S5-233585 | 27/04/2023 13:23:34 | approved |
| S5-233586 | 27/04/2023 14:17:27 | approved |
| S5-233587 | 27/04/2023 14:31:39 | approved |
| S5-233588 | 27/04/2023 14:36:39 | approved |
| S5-233589 | 27/04/2023 14:36:50 | approved |
| S5-233590 | 27/04/2023 14:34:45 | approved |
| S5-233593 | 27/04/2023 14:40:20 | approved |
| S5-233594 | 27/04/2023 14:40:29 | approved |
| S5-233595 | 27/04/2023 14:41:04 | approved |
| S5-233596 | 27/04/2023 14:41:14 | approved |
| S5-233597 | 27/04/2023 14:41:24 | approved |
| S5-233598 | 27/04/2023 14:41:31 | approved |
| S5-233599 | 27/04/2023 14:41:39 | approved |
| S5-233600 | 27/04/2023 14:41:47 | approved |
| S5-233601 | 27/04/2023 14:41:56 | approved |
| S5-233602 | 27/04/2023 14:42:06 | approved |
| S5-233603 | 27/04/2023 14:42:16 | approved |
| S5-233604 | 27/04/2023 14:43:30 | approved |
| S5-233605 | 27/04/2023 14:43:38 | approved |
| S5-233606 | 27/04/2023 14:44:09 | approved |
| S5-233607 | 27/04/2023 14:44:53 | approved |
| S5-233608 | 27/04/2023 15:00:14 | approved |
| S5-233609 | 27/04/2023 15:00:49 | approved |
| S5-233610 | 27/04/2023 15:01:45 | approved |
| S5-233611 | 27/04/2023 15:02:37 | approved |
| S5-233612 | 27/04/2023 15:02:55 | approved |
| S5-233613 | 27/04/2023 09:06:10 | approved |
| S5-233614 | 27/04/2023 15:06:06 | approved |
| S5-233615 | 27/04/2023 15:08:05 | approved |
| S5-233616 | 27/04/2023 15:08:15 | approved |
| S5-233617 | 27/04/2023 15:08:28 | approved |
| S5-233618 | 27/04/2023 15:09:09 | approved |
| S5-233619 | 27/04/2023 15:09:19 | approved |
| S5-233620 | 27/04/2023 15:09:27 | approved |
| S5-233621 | 27/04/2023 15:10:16 | approved |
| S5-233622 | 27/04/2023 15:10:24 | approved |
| S5-233623 | 27/04/2023 15:10:33 | approved |
| S5-233624 | 27/04/2023 09:23:25 | approved |
| S5-233626 | 27/04/2023 15:11:18 | approved |
| S5-233627 | 27/04/2023 15:11:27 | approved |
| S5-233628 | 27/04/2023 15:25:17 | approved |
| S5-233629 | 27/04/2023 15:25:27 | approved |
| S5-233630 | 27/04/2023 15:25:35 | approved |
| S5-233631 | 27/04/2023 15:25:58 | approved |
| S5-233632 | 27/04/2023 15:26:09 | approved |
| S5-233633 | 27/04/2023 15:26:25 | approved |
| S5-233634 | 27/04/2023 15:26:33 | approved |
| S5-233635 | 27/04/2023 15:26:41 | approved |
| S5-233636 | 27/04/2023 14:43:53 | approved |
| S5-233643 | 25/04/2023 07:16:26 | approved |
| S5-233644 | 25/04/2023 07:22:40 | reserved |
| S5-233645 | 25/04/2023 07:24:54 | reserved |
| S5-233646 | 25/04/2023 09:02:05 | reserved |
| S5-233647 | 25/04/2023 09:11:19 | reserved |
| S5-233648 | 25/04/2023 12:57:52 | reserved |
| S5-233648 | 02/05/2023 07:32:56 | approved |
| S5-233649 | 25/04/2023 13:00:38 | reserved |
| S5-233649 | 02/05/2023 07:33:01 | approved |
| S5-233650 | 25/04/2023 13:10:22 | reserved |
| S5-233650 | 02/05/2023 07:33:11 | approved |
| S5-233651 | 26/04/2023 07:08:48 | reserved |
| S5-233651 | 02/05/2023 07:33:15 | approved |
| S5-233652 | 26/04/2023 07:11:28 | reserved |
| S5-233652 | 02/05/2023 07:33:25 | approved |
| S5-233653 | 25/04/2023 07:29:11 | noted |
| S5-233654 | 25/04/2023 09:15:47 | noted |
| S5-233655 | 25/04/2023 07:18:13 | approved |
| S5-233656 | 25/04/2023 07:23:13 | approved |
| S5-233657 | 25/04/2023 07:21:31 | approved |
| S5-233658 | 25/04/2023 07:20:48 | approved |
| S5-233659 | 25/04/2023 07:20:56 | approved |
| S5-233660 | 25/04/2023 07:21:09 | approved |
| S5-233661 | 25/04/2023 07:19:27 | agreed |
| S5-233662 | 25/04/2023 07:20:23 | agreed |
| S5-233663 | 26/04/2023 07:14:42 | reserved |
| S5-233664 | 26/04/2023 07:21:43 | reserved |
| S5-233665 | 26/04/2023 07:28:00 | reserved |
| S5-233665 | 02/05/2023 07:33:32 | approved |
| S5-233666 | 25/04/2023 07:29:34 | approved |
| S5-233667 | 26/04/2023 07:32:33 | reserved |
| S5-233667 | 02/05/2023 07:33:36 | approved |
| S5-233668 | 25/04/2023 12:58:10 | approved |
| S5-233669 | 25/04/2023 13:01:19 | approved |
| S5-233670 | 25/04/2023 13:01:40 | approved |
| S5-233671 | 25/04/2023 07:20:08 | agreed |
| S5-233672 | 25/04/2023 13:01:31 | approved |
| S5-233673 | 25/04/2023 13:01:08 | approved |
| S5-233674 | 25/04/2023 09:06:45 | approved |
| S5-233675 | 25/04/2023 09:06:27 | approved |
| S5-233676 | 26/04/2023 07:37:34 | reserved |
| S5-233676 | 02/05/2023 07:33:44 | approved |
| S5-233677 | 25/04/2023 09:07:12 | approved |
| S5-233678 | 25/04/2023 12:58:23 | approved |
| S5-233679 | 26/04/2023 07:43:18 | reserved |
| S5-233679 | 02/05/2023 07:33:49 | approved |
| S5-233680 | 25/04/2023 09:07:52 | approved |
| S5-233681 | 25/04/2023 07:30:11 | approved |
| S5-233682 | 25/04/2023 09:16:49 | agreed |
| S5-233683 | 25/04/2023 09:34:04 | agreed |
| S5-233684 | 25/04/2023 09:34:41 | agreed |
| S5-233685 | 26/04/2023 07:45:34 | reserved |
| S5-233685 | 02/05/2023 07:33:56 | approved |
| S5-233686 | 26/04/2023 07:48:26 | reserved |
| S5-233687 | 26/04/2023 07:49:47 | reserved |
| S5-233687 | 02/05/2023 07:34:03 | approved |
| S5-233688 | 26/04/2023 07:51:37 | reserved |
| S5-233688 | 02/05/2023 07:34:07 | approved |
| S5-233689 | 25/04/2023 09:16:15 | agreed |
| S5-233690 | 26/04/2023 08:13:33 | reserved |
| S5-233691 | 25/04/2023 07:26:47 | approved |
| S5-233692 | 25/04/2023 09:08:00 | approved |
| S5-233693 | 25/04/2023 09:08:17 | approved |
| S5-233694 | 25/04/2023 09:12:00 | agreed |
| S5-233695 | 25/04/2023 09:12:20 | agreed |
| S5-233696 | 25/04/2023 09:12:32 | agreed |
| S5-233697 | 25/04/2023 09:14:10 | agreed |
| S5-233698 | 25/04/2023 09:12:40 | agreed |
| S5-233699 | 25/04/2023 07:27:51 | approved |
| S5-233700 | 26/04/2023 08:18:42 | reserved |
| S5-233700 | 02/05/2023 11:28:59 | approved |
| S5-233701 | 25/04/2023 07:42:48 | approved |
| S5-233702 | 25/04/2023 09:01:13 | approved |
| S5-233703 | 25/04/2023 09:35:27 | approved |
| S5-233704 | 25/04/2023 11:41:03 | approved |
| S5-233705 | 26/04/2023 08:50:21 | reserved |
| S5-233705 | 02/05/2023 07:34:16 | approved |
| S5-233706 | 25/04/2023 11:41:15 | approved |
| S5-233707 | 25/04/2023 11:41:24 | approved |
| S5-233708 | 25/04/2023 12:59:02 | approved |
| S5-233709 | 25/04/2023 12:59:09 | approved |
| S5-233710 | 26/04/2023 09:02:26 | reserved |
| S5-233711 | 27/04/2023 08:50:27 | approved |
| S5-233712 | 27/04/2023 12:05:39 | approved |
| S5-233715 | 25/04/2023 07:30:44 | approved |
| S5-233716 | 25/04/2023 09:33:05 | approved |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-233449 | Add the converged charging mapping | Huawei | 32.240 | 0457 | - | Rel-17 | F | TEI17 | not pursued |
| S5-233450 | Add the converged charging mapping | Huawei | 32.240 | 0458 | - | Rel-18 | A | TEI18 | not pursued |
| S5-233454 | An Architecture for CHF Distributed Availability in Migration Mode | Huawei | 32.240 | 0459 | - | Rel-18 | B | DIST\_CH | not pursued |
| S5-233455 | An Architecture for CHF Distributed Availability in Multiple Backup Mode | Huawei | 32.240 | 0460 | - | Rel-18 | B | DIST\_CH | not pursued |
| S5-233251 | Rel-17 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.257 | 0005 | - | Rel-17 | F | EDGE\_CH | revised |
| S5-233694 | Rel-17 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.257 | 0005 | 1 | Rel-17 | F | EDGE\_CH | agreed |
| S5-233252 | Rel-18 CR 32.257 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.257 | 0006 | - | Rel-18 | A | EDGE\_CH | withdrawn |
| S5-233253 | Rel-17 CR 32.257 Add Usage Volume in EAS Infrastructure Usage Charging Info | Amdocs Software Systems Ltd | 32.257 | 0007 | - | Rel-17 | F | EDGE\_CH | not pursued |
| S5-233254 | Rel-18 CR 32.257 Add Usage Volume in EAS Infrastructure Usage Charging Infon | Amdocs Software Systems Ltd | 32.257 | 0008 | - | Rel-18 | A | EDGE\_CH | withdrawn |
| S5-233448 | Correction the charging principle for alignment | Huawei | 32.257 | 0009 | - | Rel-17 | F | EDGE\_CH | revised |
| S5-233689 | Correction the charging principle for alignment | Huawei | 32.257 | 0009 | 1 | Rel-17 | F | EDGE\_CH | agreed |
| S5-233519 | Rel-18 CR 32.260 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | 32.260 | 0430 | - | Rel-18 | C | 5GSIMSCH | revised |
| S5-233682 | Rel-18 CR 32.260 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | 32.260 | 0430 | 1 | Rel-18 | F | TEI18 | agreed |
| S5-233255 | Rel-17 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.291 | 0466 | - | Rel-17 | F | EDGE\_CH | revised |
| S5-233695 | Rel-17 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.291 | 0466 | 1 | Rel-17 | F | EDGE\_CH | agreed |
| S5-233256 | Rel-18 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.291 | 0467 | - | Rel-18 | A | EDGE\_CH | revised |
| S5-233696 | Rel-18 CR 32.291 Add LCM Event Type in EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.291 | 0467 | 1 | Rel-18 | A | EDGE\_CH | agreed |
| S5-233257 | Rel-17 CR 32.291 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | 32.291 | 0468 | - | Rel-17 | F | EDGE\_CH | not pursued |
| S5-233258 | Rel-18 CR 32.291 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | 32.291 | 0469 | - | Rel-18 | A | EDGE\_CH | not pursued |
| S5-233297 | Rel-17 CR 32.291 Correction of requested units | Ericsson LM | 32.291 | 0470 | - | Rel-17 | F | TEI17 | not pursued |
| S5-233298 | Rel-18 CR 32.291 Correction of requested units | Ericsson LM | 32.291 | 0471 | - | Rel-18 | A | TEI17 | not pursued |
| S5-233520 | Rel-18 CR 32.291 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | 32.291 | 0472 | - | Rel-18 | C | 5GSIMSCH | revised |
| S5-233683 | Rel-18 CR 32.291 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | 32.291 | 0472 | 1 | Rel-18 | F | TEI18 | agreed |
| S5-233259 | Rel-17 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.298 | 0929 | - | Rel-17 | F | EDGE\_CH | revised |
| S5-233697 | Rel-17 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.298 | 0929 | 1 | Rel-17 | F | EDGE\_CH | agreed |
| S5-233260 | Rel-18 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.298 | 0930 | - | Rel-18 | A | EDGE\_CH | revised |
| S5-233698 | Rel-18 32.298 Add LCM Event Type to EAS Deployment Charging Info | Amdocs Software Systems Ltd | 32.298 | 0930 | 1 | Rel-18 | A | EDGE\_CH | agreed |
| S5-233261 | Rel-17 CR 32.298 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | 32.298 | 0931 | - | Rel-17 | F | EDGE\_CH | not pursued |
| S5-233262 | Rel-18 CR 32.298 Update EAS Infrastructure Usage Charging Information | Amdocs Software Systems Ltd | 32.298 | 0932 | - | Rel-18 | A | EDGE\_CH | not pursued |
| S5-233295 | Rel-17 CR 32.298 Correction of NetworkFunctionality civicLocation | Ericsson LM | 32.298 | 0933 | - | Rel-17 | F | TEI17 | agreed |
| S5-233296 | Rel-18 CR 32.298 Correction of mMSChargingInformation NetworkFunctionality civicLocation | Ericsson LM | 32.298 | 0934 | - | Rel-18 | F | TEI18 | agreed |
| S5-233451 | Addition of the Triggers in the CHF CDR | Huawei | 32.298 | 0935 | - | Rel-17 | F | TEI17 | not pursued |
| S5-233452 | Addition of the Triggers in the CHF CDR | Huawei | 32.298 | 0936 | - | Rel-18 | A | TEI18 | not pursued |
| S5-233521 | Rel-18 CR 32.298 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | 32.298 | 0937 | - | Rel-18 | C | 5GSIMSCH | revised |
| S5-233684 | Rel-18 CR 32.298 IMS Charging Diagnostics | Nokia, Nokia Shanghai Bell | 32.298 | 0937 | 1 | Rel-18 | F | TEI18 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-233194 |  | TM Forum Liaison: Update on TM Forum Intent Management API and Ontologies – Connector model and 3GPP connector mode | TM Forum | replied to | S5-233549 |
| S5-233195 |  | Resubmitted LS out Rel17 Reply LS on Enhancement on Charging Identifier Uniqueness Mechanism | C4-225411 | postponed | (none) |
| S5-233196 |  | Resubmitted LS on Performance measurement for AI/ML | S2-2211428 | replied to | S5-233550 |
| S5-233197 |  | LS on the new work item Y.Arch\_NGNe\_ncp ""Architectural evolution of NGN control plane by applying SDN technology"" | ITU-T SG13 | noted | (none) |
| S5-233198 |  | LS on the consent of draft new Recommendation ITU-T Y.3183 (ex. ITU-T Y.ML-IMT2020-VNS): ""Framework for network slicing management assisted by machine learning leveraging QoE feedback from verticals"" | ITU-T SG13 | postponed | (none) |
| S5-233199 |  | Resubmitted LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S2-2301465 | replied to | S5-233546 |
| S5-233200 |  | Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR | O-RAN | replied to | S5-233613 |
| S5-233201 |  | Reply LS ccSA5 on 5G capabilities exposure for factories of the future – identified gaps (5G-ACIA-LS-2022-005 / S2-2302175) | S2-2303304 | noted | (none) |
| S5-233202 |  | LS reply to TSG SA ccSA5 on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA | S3-231387 | noted | (none) |
| S5-233203 |  | Reply LS ccSA5 on the user consent for trace reporting | S3-231398 | noted | (none) |
| S5-233204 |  | Reply LS ccSA5 on user consent of Non-public Network | S3-231399 | noted | (none) |
| S5-233205 |  | Reply LS ccSA5 on ID of MBS session in MBS QoE configuration | S4-230347 | noted | (none) |
| S5-233206 |  | Reply LS ccSA5 on QoE measurements in RRC IDLE/INACTIVE states | S4-230369 | noted | (none) |
| S5-233207 |  | LS on charging aspects for Ranging/Sidelink Positioning | S2-2303231 | replied to | S5-233655 |
| S5-233208 |  | Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S3-231400 | postponed | (none) |
| S5-233209 |  | An Invitation to the SA4 Gender Diversity Committee Meetings | S4-230431 | noted | (none) |
| S5-233210 |  | Reply-LS ccSA5 on Research highlighting potential negated OAuth policy | C4-230487 | noted | (none) |
| S5-233211 |  | Reply LS ccSA5 on Tracking IANA assignment requests | R3-230802 | noted | (none) |
| S5-233212 |  | Reply LS on handover failures related to MRO for inter-system mobility | R3-230805 | noted | (none) |
| S5-233213 |  | LS reply to TSG SA ccSA5 on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA | S6-231068 | noted | (none) |
| S5-233214 |  | LS on requirement for network slice management service exposure interface and exposure entities | S6-230793 | replied to | S5-233624 |
| S5-233215 |  | Resubmitted LS on NCR Solutions | R3-225253 | postponed | (none) |
| S5-233216 |  | Resubmitted Reply LS to SA5 on TS 28.404/TS 28.405 Clarification | S4-221121 | noted | (none) |
| S5-233217 |  | Resubmitted LS on RAN3 agreements for NR QoE | R3-222890 | noted | (none) |
| S5-233218 |  | Resubmitted LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 | O-RAN | postponed | (none) |
| S5-233243 |  | LS on work progress of M.fidtom, “Framework of intent driven telecom operation and management” (reply to 3GPP TSG SA5-S5-225599). | ITU-T | replied to | S5-233545 |
| S5-233244 |  | LS on Consent of revised Recommendation ITU-T M.3020, “Management Interface Specification Methodology” (reply to 3GPP TSG SA5-S5-225615) | ITU-T | noted | (none) |
| S5-233245 |  | LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM) | ITU-T | replied to | S5-233711 |
| S5-233246 |  | LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management” | ITU-T | replied to | S5-233712 |
| S5-233328 |  | LS on publication of GSMA OPG and OPAG documents | GSMA | replied to | S5-233543 |
| S5-233540 |  | LS on new Recommendation ITU-T Y.3160 (ex.Y.SLOA-arch) “Architectural framework of end-to-end service level objective guarantee for future networks including IMT-2020”. | ITU-T | postponed | (none) |
| S5-233541 |  | LS to SA5 on E2E Network Slicing Requirements | GSMA | postponed | (none) |
| S5-233542 |  | LS on Slice based (wholesale) differentiation and charging in roaming | GSMA | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-233276 | LS on progress of 3GPP SA5 R18 work on intent driven management | TM Forum, ETSI ZSM, ETSI NFV IFA, ITU-T SG2, ITU FG-AN, GSMA OPG, 3GPP SA2,3GPP RAN3 | 3GPP SA |  |
| S5-233277 | LS on 3GPP SA5 work on intent interface collaboration | TM Forum, ETSI ZSM, GSMA OPG | 3GPP SA |  |
| S5-233385 | LS to 5G-ACIA on Management of non-public networks | 5G ACIA | - |  |
| S5-233543 | Reply to: LS on publication of GSMA OPG and OPAG documents | GSMA | - | S5-233328 |
| S5-233545 | Reply to: LS on work progress of M.fidtom, “Framework of intent driven telecom operation and management” (reply to 3GPP TSG SA5-S5-225599). | ITU-T SG2 | SA | S5-233243 |
| S5-233546 | Reply to: Resubmitted LS on secured and trusted access to the serving PLMN OAM server by a MBSR | SA2 | - | S5-233199 |
| S5-233549 | Reply to: TM Forum Liaison: Update on TM Forum Intent Management API and Ontologies – Connector model and 3GPP connector mode | TM Forum | SA,PCG | S5-233194 |
| S5-233550 | Reply to: Resubmitted LS on Performance measurement for AI/ML | SA2 | RAN3 | S5-233196 |
| S5-233613 | Reply to: Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR | O-RAN | SA | S5-233200 |
| S5-233624 | Reply LS on interface and exposure entities requirement for network slice management service | SA6 | - | S5-233214 |
| S5-233655 | Reply to: LS on charging aspects for Ranging/Sidelink Positioning | SA2 | - | S5-233207 |
| S5-233711 | Reply to: LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM) | ITU-T | SA | S5-233245 |
| S5-233712 | Reply to: LS on initiation of a new work item M.eiil-AITOM, “Effectiveness indicators of intelligence level for AI enhanced telecom operation and management” | ITU-T | SA | S5-233246 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-233662 | New SID on Charging Aspects of Ranging and Sidelink Positioning | China Telecommunications | SID new |
| S5-233497 | Updade Release 18 SID on Management Aspects of URLLC | China Unicom | SID revised |
| S5-233557 | New WID on Management of cloud-native Virtualized Network Functions | China Mobile,Huawei,AsiaInfo | WID new |
| S5-233661 | New WID on Charging Aspects of IMS Data Channel | China Mobile | WID new |
| S5-233671 | New WID on Charging Aspects for 5G Multicast-broadcast Services | China Mobile M2M Company Ltd. | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-233219 | 28.204 | 0.0.0 | Rel-18 TS 28.204 v0.0.0 Initial skeleton |
| S5-233534 | 28.840 | 0.2.0 | Draft TR 28.840 |
| S5-233644 | 28.203 | 0.2.0 | Draft TS 28.203 |
| S5-233645 | 28.204 | 0.1.0 | Draft TS 28.204 |
| S5-233646 | 28.826 | 1.4.0 | Draft TR 28.826 |
| S5-233647 | 28.827 | 1.8.0 | Draft TR 28.827 |
| S5-233648 | 28.839 | 0.6.0 | Draft TR 28.839 |
| S5-233649 | 28.843 | 0.2.0 | Draft TR 28.843 |
| S5-233650 | 28.844 | 0.2.0 | Draft TR 28.844 |
| S5-233651 | 28.913 | 0.6.0 | Draft TR 28.913 |
| S5-233652 | 28.912 | 1.3.0 | Draft TR 28.912 |
| S5-233663 | 28.910 | 0.5.0 | Draft TR 28.910 |
| S5-233664 | 28.863 | 0.6.0 | Draft TR 28.863 |
| S5-233665 | 28.908 | 1.2.0 | Draft TR 28.908 |
| S5-233667 | 28.903 | 0.6.0 | Draft TR 28.903 |
| S5-233676 | 28.841 | 0.5.0 | Draft TR 28.841 |
| S5-233679 | 28.864 | 1.1.0 | Draft TR 28.864 |
| S5-233685 | 28.834 | 1.1.0 | Draft TR 28.834 |
| S5-233686 | 28.831 | 0.7.0 | Draft TR 28.831 |
| S5-233687 | 28.837 | 0.7.0 | Draft TR 28.837 |
| S5-233688 | 28.842 | 0.3.0 | Draft TR 28.842 |
| S5-233690 | 28.824 | 0.11.0 | Draft TR 28.824 |
| S5-233700 | 28.832 | 0.6.0 | Draft TR 28.832 |
| S5-233705 | 28.829 | 1.1.0 | Draft TR 28.829 |
| S5-233710 | 28.836 | 0.5.0 | draft TR 28.836 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Role | Employer Organization |
| Dr. | ahvar | ehsan | Delegate | Nokia France |
| Mr. | Ai | Ming | Delegate | CATT |
| Mr. | Andrianov | Anatoly | Delegate | Nokia Germany |
| Mr. | Audebert | Vincent | Delegate | EDF Recherche et Développement |
| Mr. | Brown | Michael | Delegate | Microsoft Europe SARL |
| Mr. | Cano Soveri | Mirko | Secretary | ETSI |
| Miss | cao | guangjing | Delegate | China Mobile Com. Corporation |
| Mr. | Cao | Longyu | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. |
| Dr. | Cetinkaya | Egemen | Delegate | Verizon UK Ltd |
| Ms. | CHAKRABARTI | SAMITA | Delegate | Verizon UK Ltd |
| Dr. | Chen | Ai | Delegate | China Mobile Com. Corporation |
| Ms. | Chen | Lijuan | Delegate | ZTE Corporation |
| Miss | CHEN | SHAN | Delegate | Huawei Tech.(UK) Co.. Ltd |
| Miss | Chen | Xiumin | Delegate | China Telecommunications |
| Dr. | Chiba | Tsunehiko | Delegate | VIAVI Solutions |
| Mr. | Chou | Joey | Delegate | Intel Corporation (UK) Ltd |
| Dr. | CORNILY | Jean-Michel | Delegate | Huawei Technologies France |
| Mr. | Deng | Qiang | Delegate | CATT |
| Dr. | Deng | Yimeng | Delegate | Huawei Technologies France |
| Mr. | Diaz | Edward | Delegate | Verizon UK Ltd |
| Dr. | Dong | Hao | Delegate | ZTE Corporation |
| Miss | Dong | Jia | Delegate | China Mobile E-Commerce Co. |
| Mr. | Elmdahl | Per | Delegate | Ericsson France S.A.S |
| Mr. | Fernandes | Clifton | Delegate | Nokia UK |
| Mr. | Gadhai | Shyam Vijay | Delegate | IIT Kanpur |
| Mrs. | Gardella | Maryse | Delegate | MATRIXX Software |
| Mr. | Gautam | Deepanshu | Delegate | Samsung R&D Institute UK |
| Mr. | Glozman | Borislav | Delegate | Amdocs Software Systems Ltd |
| Mrs. | Godoy | Gabriela | Delegate | SDI Squared |
| Dr. | Goerge | Jürgen | Delegate | Nokia Germany |
| Ms. | Gong | Ruby | Delegate | Beijing Xiaomi Mobile Software |
| Mr. | Groenendijk | Jan | Delegate | Ericsson LM |
| Mr. | Guo | Yi | Delegate | Intel Corporation (UK) Ltd |
| Mr. | Gupta | Varini | Delegate | Samsung R&D Institute India |
| Mr. | Guttman | Erik | Delegate | Samsung R&D Institute UK |
| Dr. | Han | Jaemin | Delegate | Intel Technology India Pvt Ltd |
| Mr. | Harper | Colby | Delegate | Pivotal Commware |
| Mr. | Hassett | Brendan | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Hatanaka | Yoshitaka | Delegate | NTT DOCOMO INC. |
| Mr. | He | Keguang | Delegate | China Mobile Research Inst. |
| Miss | Hou | Yunjing | Delegate | CATT |
| Miss | Huang | Xietian | Delegate | HUAWEI Technologies Japan K.K. |
| Mr. | Ju | Manchang | Delegate | ZTE Corporation |
| Mr. | Kaushik | Ashutosh | Delegate | Samsung R&D Institute UK |
| Miss | Kedalagudde | Meghashree D | Delegate | Intel Deutschland GmbH |
| Mr. | Klotz | Michael | Delegate | Deutsche Telekom AG |
| Mr. | Kolekar | Abhijeet | Delegate | Intel Corporation (UK) Ltd |
| Mr. | Kono | Tomoki | Delegate | NTT DOCOMO INC. |
| Mr. | Kumar | Lalith | Delegate | Samsung R&D Institute India |
| Mr. | Kuroiwa | Fumito | Delegate | NTT DOCOMO INC. |
| Mr. | Lengyel | Balazs | Delegate | Ericsson Hungary Ltd |
| Ms. | Li | Chenyi | Delegate | China Unicom |
| Mr. | Li | Gang | Delegate | Nanjing Ericsson Panda Com Ltd |
| Mr. | Li | Shitao | Delegate | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Li | Xiangning | Delegate | China Telecommunications |
| Mr. | Li | Zhendong | Delegate | Nubia Technology Co.,Ltd |
| Mr. | Li | Zhijun | Delegate | ZTE Corporation |
| Dr. | Liang | Haoran | Delegate | Xiaomi Communications |
| Miss | liang | lixin | Delegate | China Telecommunications |
| Miss | Liang | Shuang | Delegate | Nubia Technology Co.,Ltd |
| Mr. | Libunao | Gerardo | Delegate | Verizon UK Ltd |
| Mr. | LIU | Jianning(Carry) | Delegate | Beijing Xiaomi Software Tech |
| Dr. | Liu | Kai | Delegate | TCL Communication Ltd. |
| Miss | Liu | Yingying | Delegate | CICT |
| Ms. | Luan | Xiaoxu | Delegate | Pengcheng laboratory |
| Mr. | Luetzenkirchen | Thomas | Delegate | Intel Deutschland GmbH |
| Ms. | Ma | Limeng | Delegate | AsiaInfo Technologies Inc |
| Mr. | Ma | Ruitao | Delegate | China Unicom |
| Dr. | Malmirchegini | Mehrzad | Delegate | Apple Inc |
| Miss | Martinez Tarradell | Marta | Delegate | Intel |
| Mr. | McDonnell | Eoin | Delegate | Ericsson LM |
| Mr. | Mo | Zhiwei | Delegate | China Telecommunications |
| Dr. | Mwanje | Stephen | Delegate | Nokia |
| Mr. | NAKAMURA | Kazuo | Delegate | NICT |
| Dr. | Nakimuli | Winnie | Delegate | Nokia France |
| Mr. | Nanavaty | Niraj | Delegate | Nokia Corporation |
| Mr. | Nayak | Ashok Kumar | Delegate | Samsung R&D Institute India |
| Ms. | Niu | Yuxia | Delegate | China Telecom Corporation Ltd. |
| Mr. | Ordonez-Lucena | Jose | Delegate | TELEFONICA S.A. |
| Dr. | Palat | Sudeep | Delegate | Intel Corporation (UK) Ltd |
| Dr. | Pollakowski | Olaf | Delegate | Nokia Germany |
| Mr. | Pothera Kalloor | Sreekumar | Delegate | Nokia Solutions & Networks (I) |
| Mr. | Pozo | Sergio | Delegate | VODAFONE Group Plc |
| Mr. | Probasco | Scott | Delegate | Nokia |
| Mr. | Qi | Tongya | Delegate | ZEKU |
| Mr. | Ramamoorthy | Arunprasath | Delegate | Samsung R&D Institute India |
| Miss | Ramazanirend | Elmira | Delegate | VODAFONE Group Plc |
| Mr. | Rodrigues | Joao | Delegate | Nokia |
| Ms. | Romaguera | Cristina | Delegate | VODAFONE Group Plc |
| Mrs. | Rosa Bolzek | Cintia | Delegate | Ericsson LM |
| Mr. | Ruan | Bangqiu | Delegate | ZTE Corporation |
| Ms. | Ryu | Jinsook | Delegate | Dish Network |
| Ms. | Sabater | Susana | Delegate | VODAFONE Group Plc |
| Mr. | Scully | Aaron | Delegate | Ericsson LM |
| Mr. | Shah | Sapan | Delegate | Samsung R&D Institute India |
| Dr. | Shailendra | Samar | Delegate | Intel Technology India Pvt Ltd |
| Mr. | Shan | Changhong | Delegate | Intel Corporation (UK) Ltd |
| Miss | shang | zhengyi | Delegate | Beijing Xiaomi Mobile Software |
| Ms. | Shen | Yang | Delegate | Beijing Xiaomi Mobile Software |
| Mrs. | Shi | xiaoli | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Shi | Xiaoyan | Delegate | Intel |
| Mr. | Shu | Min | Delegate | CATT |
| Mr. | SINHA | UTSAV | Delegate | Samsung R&D Institute India |
| Mr. | Smith | David K. | Delegate | AT&T GNS Belgium SPRL |
| Mr. | Sofuoglu | Serkan | Delegate | P.I. WORKS |
| Miss | Song | Xiaojia | Delegate | China Mobile Research Inst. |
| Mr. | Srinivasan | Suresh | Delegate | Intel |
| Miss | Srinivasaraju | Srilakshmi | Delegate | Nokia Corporation |
| Mr. | Stojanovski | Saso | Delegate | Intel Deutschland GmbH |
| Mr. | Subramanya | Tejas | Delegate | Nokia Germany |
| Mr. | Sun | Mingrui | Delegate | China Unicom |
| Mr. | Sun | Sean | Delegate | Nokia Shanghai Bell |
| Mr. | Swaminathan | Sivaramakrishnan | Delegate | Nokia Germany |
| Dr. | Targali | Yousif | Delegate | Verizon UK Ltd |
| Miss | Tian | Zhuoyuan | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Törnkvist | Robert | Delegate | Ericsson LM |
| Mr. | Vaishnavi | Ishan | Delegate | Nokia Germany |
| Mr. | Valerius | Lee | Delegate | Hewlett-Packard Enterprise |
| Ms. | Wan | Qing | Delegate | CICT |
| Ms. | Wang | Man | Delegate | HuaWei Technologies Co., Ltd |
| Miss | Wang | Menghan | Delegate | ZTE Corporation |
| Dr. | Wang | Zhaoning | Delegate | China Unicom |
| Ms. | WEI | QUN | Delegate | China Unicom |
| Ms. | WU | Jinhua | Delegate | Beijing Xiaomi Mobile Software |
| Mr. | Xie | Baoguo | Delegate | ZTE Corporation |
| Mr. | Xing | TianQi | Delegate | China Unicom |
| Mr. | Xiong | Chunshan | Delegate | CICT |
| Mr. | Xu | Ruiyue | Delegate | Huawei Tech.(UK) Co.. Ltd |
| Ms. | Xue | Kaixin | Delegate | CBN |
| Miss | Yan | Xiaojian | Delegate | ZTE Corporation |
| Dr. | Yao | Ge | Delegate | China Unicom |
| Mr. | Yao | Yizhi | Delegate | Intel Corporation (UK) Ltd |
| Mr. | You | Shilin | Delegate | ZTE Corporation |
| Dr. | Yu | Xiaobo | Delegate | Alibaba (China) Group., Ltd. |
| Mr. | Yun | Andy | Delegate | TELUS |
| Mr. | Zhang | Jian | Delegate | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Zhang | Kai | Delegate | Huawei Tech.(UK) Co.. Ltd |
| Ms. | Zhang | Ling | Delegate | Siemens AG |
| Miss | Zhang | Yuying | Delegate | China Telecom Corporation Ltd. |
| Miss | ZHAO | HUAN | Delegate | China Unicom |
| Dr. | Zhao | Shuai | Delegate | Intel |
| Mr. | Zhao | Song | Delegate | China Telecom Corporation Ltd. |
| Miss | Zhao | Xian | Delegate | Huawei Technologies France |
| Dr. | Zhou | Lei | Delegate | New H3C Technologies Co., Ltd. |
| Miss | Zhou | Xingyue | Delegate | ZTE Corporation |
| Mr. | Zhu | Chunhui | Delegate | Beijing Xiaomi Mobile Software |
| Mr. | Zhu | Jinguo | Delegate | ZTE Corporation. |
| Mr. | Zhu | Lei | Delegate | Huawei Tech.(UK) Co.. Ltd |
| Ms. | Zou | Lan | Vice Chair | Huawei Tech.(UK) Co.. Ltd |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#149 | 2023-05-22 | 2023-05-26 | Berlin | GR | S5-149 |
| SA5#150 | 2023-08-21 | 2023-08-25 | Gothemburg | SW | S5-150 |
| SA5#151 | 2023-10-09 | 2023-10-13 | Xian | CH |  |
| SA5#152 | 2023-11-13 | 2023-11-17 | Chicago | US |  |
| SA5#153 | 2024-01-29 | 2024-02-02 | TBD |  | S5-153 |
| SA5#154 | 2024-04-15 | 2024-04-19 | CHI | CN | S5-154 |
| SA5#155 | 2024-05-27 | 2024-05-31 | Korea | KR | S5-155 |
| SA5#156 | 2024-08-19 | 2024-08-23 | EU | EU | S5-156 |
| SA5#157 | 2024-10-14 | 2024-10-18 | India | IN | S5-157 |
| SA5#158 | 2024-11-18 | 2024-11-22 | US TBC | US | S5-158 |