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

**Meeting Report  
for  
TSG SA WG5  
meeting: 149**

**Berlin, Germany, 22/05/2023 to 26/05/2023**

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## 1 Opening of the meeting

TSG SA WG5 chair Mr. Thomas Tovinger (Ericsson) opened the f2f meeting 3GPP TSG SA WG5 #149 on Monday May 22th, 2023 at 9am.

On behalf of the host, ETSI, Mr. Gerald Goermer (MATRIXX Software) welcomed the participants to Berlin, Germany and explained organisational aspects of the meeting.

## 2 Approval of the agenda

**S5-233800 Agenda of SA5 #149 in Berlin, Germany, held 22-26.05.2023**

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

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

## 3 IPR and legal declaration

**S5-233801 IPR and legal declaration**

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

**Discussion:**

IPR:

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.

Antitrust:

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.

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

## 4 Meetings and activities reports

### 4.1 Last SA5 meeting report

**S5-233802 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

**S5-233803 Post e-meeting email approval status**

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

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

**S5-233811 SA5 working procedures**

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

**Discussion:**

SA5 chair: a few updates, to be checked

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

**S5-233814 Process for management of draft TS-TRs**

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

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

**S5-234438 SA5 Meeting facility requirements**

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

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

**S5-234439 SA5 TU budget presentation for SA Rel-19 workshop**

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

**Discussion:**

SA Rel-19 workshop will be held F2F in Taipei. Workshop will take place in between SA#100 meeting:

June 13 (WS Day 1): Full Day - 3GPP Member, External presentations.

June 14 (WS Day 2): 0.5 Day - 3GPP Member, External presentations.

0.5 Day - Summary/Output report of the workshop.

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

**S5-234440 SA5 Rel-19 Work Planning Sheet as input to TU budget**

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

**Discussion:**

template that SA2 applied in the past adapted for SA5

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

**S5-234077 Discussion paper on Using Forge-Git as the primary storage for Code**

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

(Replaces S5-232751)

**Discussion:**

Ericsson: updates were only done in the Annex

Nokia: has some comments that he can provide offline

Huawei: instead of copying in TS attachment better into zip file

Chair: needs to be discussed with MCC

Nokia: Answers in FAQ are company answers or aligned with MCC etc.? how did they answer the legal aspects? This should come from ETSI legal.

Ericsson: is currently proposal from us but MCC plans to check with ETSI legal (for the first two)

Nokia: the fact that the word IPR does not appear in TSs or YAML files does not mean that corresponding text is not subject of IPRs; other companies may publish GitLAB code

Ericsson: MCC claimed that this aspect would be covered by copyrights

SA5 VC (MATRIXX): we may also have API and ASN.1 and the work should be handled in the same way

**Decision:** The document was **revised to S5-234494**.

**S5-234494 Discussion paper on Using Forge-Git as the primary storage for Code**

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

(Replaces S5-234077)

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

### 5.2 Technical issues at SA5 level

**S5-234174 DP for Rel-19 MDA topic**

*Type: discussion For: Endorsement  
 Source: Samsung R&D Institute India*

**Discussion:**

merged into S5-233854

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

**S5-233829 China Telecom inputs to SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: other For: (not specified)  
 Source: China Telecom Corporation Ltd.*

**Discussion:**

merged into S5-233854

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

**S5-234342 DP on SA to SA5 Collection of Rel-19 potential topics on management aspects of 5G System with Satellite Backhaul**

*Type: discussion For: Endorsement  
 Source: China Telecommunications*

**Discussion:**

merged into S5-233854

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

**S5-233879 input to SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: (not specified)  
 Source: Nokia Italy*

**Discussion:**

merged into S5-233854

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

**S5-233880 Input on trustworthiness to SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: (not specified)  
 Source: Nokia Italy*

**Discussion:**

merged into S5-233854

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

**S5-234169 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

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

**Discussion:**

merged into S5-233854

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

**S5-234055 Input on SA to SA5 Collection of Rel-19 potential topics on Data Management Phase 2 for SA workshop preparation**

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

**Discussion:**

merged into S5-233854

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

**S5-234368 Rel-19 topic collection – Plan and transaction management**

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

**Discussion:**

merged into S5-233854

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

**S5-234431 Input on SA to SA5 Collection of Rel-19 potential topics on Exposure to Verticals for SA workshop preparation**

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

**Discussion:**

merged into S5-233854

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

**S5-234084 Huawei inputs to SA5 Collection of Rel-19 OAM potential topics for SA workshop preparation**

*Type: discussion For: (not specified)  
 Source: HuaWei Technologies Co., Ltd*

**Discussion:**

merged into S5-233854

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

**S5-234226 DP on SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Endorsement  
 Source: China Unicom,CATT*

**Discussion:**

merged into S5-233854

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

**S5-234383 Input on SA to SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Endorsement  
 Source: China Unicom*

**Discussion:**

merged into S5-233854

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

**S5-234275 Input on SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Endorsement  
 Source: China Mobile Com. Corporation*

**Discussion:**

merged into S5-233854

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

**S5-234390 Input to SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Endorsement  
 Source: Microsoft Europe SARL, Intel Corporation*

**Discussion:**

merged into S5-233854

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

**S5-234409 Input on SA5 Collection of Rel-19 potential topics for SA workshop preparation**

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

**Discussion:**

merged into S5-233854

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

**S5-234410 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Agreement  
 Source: SA5 VC - CH Chair (MATRIXX Software)*

**Discussion:**

merged into S5-233854

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

**S5-233854 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Endorsement  
 Source: SA5 VC (Huawei), SA5 Chair, SA5 VC (Matrixx)*

(Replaces S5-233319)

**Discussion:**

SA5 VC (Huawei): tried to group proposals into 4 categories

Ericsson: figure is not editable and some proposals are overlapping

SA5 chair: if we have more than 20 proposals, we will need to merge them somehow

SA5 VC (MATRIXX): Tdoc number should be added in the table

Nokia: estimation of TUs needed here?

SA5 chair: not yet

Samsung: even RAN had no work on sensing so far (only SA1 was looking at it), so it is too early to consider it in SA5

SA5 VC (MATRIXX): for charging it may be considered

**Decision:** The document was **revised to S5-234495**.

**S5-234495 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

*Type: discussion For: Endorsement  
 Source: SA5 VC (Huawei), SA5 Chair, SA5 VC (Matrixx)*

(Replaces S5-233854)

**Discussion:**

SA5 VC (Huawei): will not use the SA template

SA5 chair: was more for companies

Nokia: we can endorse the whole slide set

**Decision:** The document was **revised to S5-234823**.

**S5-234823 SA5 Collection of Rel-19 potential topics for SA workshop preparation**

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

(Replaces S5-234495)

**Discussion:**

SA5 VC (Huawei): only 2nd sentence changed

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

**S5-234257 Service Management**

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

**Discussion:**

Ericsson: is an update from last meeting but need to remove some text

**Decision:** The document was **revised to S5-234496**.

**S5-234496 Service Management**

*Type: other For: -  
 Source: Ericsson*

(Replaces S5-234257)

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

**S5-234365 Discussion Paper: Technical Specification for Services**

*Type: discussion For: Agreement  
 Source: Nokia*

**Discussion:**

Huawei: what is meant by "Services"? and "may have different end functions" unclear

Nokia: verticals may do different things; not management functions

SA5 VC (Huawei): "co-located specifications" unclear

Nokia: is related to new WI S5-234056, common container is planned in this discussion Tdoc

MCC: spec name is proposed in the WID

SA5 VC (Huawei): will create an action point for this

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

**S5-234497 Discussion Paper: Techical Specification for Services**

*Type: discussion For: Agreement  
 Source: Nokia*

**Discussion:**

was intended as revision of S5-234365, finally not needed

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

### 5.3 Liaison statements at SA5 level

**S5-233851 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: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T*

**Discussion:**

SA5 VC (Huawei): ITU-T Study Group 13 Working Party 1 (WP1/13) Question 21 (Q21/13) would like to inform about consent of the new Recommendation ITU-T Y.3160 "Architectural framework of end-to-end service level objective guarantee for future networks including IMT-2020."

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

**S5-234167 LSout on Security for AI ML trustworthiness management**

*Type: LS out For: Approval  
 to SA3  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: has comments

SA5 VC (MATRIXX): will also be discussed in Charging session

**Decision:** The document was **revised to S5-234776**.

**S5-234776 LS on Security for AI ML trustworthiness management (to: SA3; cc: -; contact: Nokia)**

*Type: LS out For: Approval  
 to SA3  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234167)

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

### 5.4 SA5 meeting calendar

**S5-233815 SA5 meeting calendar**

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

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

**S5-234437 MHPG#4 confirmed 3GPP meeting plan for 2023 and 2024**

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

**Abstract:**

Outcome from MHPG#4 the 5 April 2023 - confirmed 3GPP meeting plan for 2023 and 2024 including remote access plan.

**Discussion:**

SA5 VC: until end of 2023 (except Aug.): 2-way remote access; for 2024: only listening mode for remote planned for now

SA5 VC: up to WGs to convert some of these f2f meetings to e-meetings (confirmed by MHPG chair); SA5 leadership team has the plan to carry out all meetings as f2f as this is most efficient (unless hosts have problems or new policies are popping up);

Nokia: would have preferred to discuss this in the WG and not have just a decision by the WG leadership team

SA5 chair: the comments we got were in favour of f2f meetings but we can discuss this further offline, decision can change

Nokia: a mix could be more efficient than f2f only, maybe a show of hands could help

Intel: some companies may also cut travel budget

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-233804 OAM&P action list**

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

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

**S5-233805 agenda\_with\_Tdocs\_sequence\_proposal\_OAM**

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

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

**S5-233806 OAM Exec Report**

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

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

**S5-233807 OAM Chair notes**

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

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

**S5-233812 Collection of Rel-18 3GPP SA5 OAM WoP**

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

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

**S5-233813 Living document for stage 2-3 alignment**

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

**Discussion:**

for email approval

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

**S5-233816 Time Plan for OAM&P sessions**

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

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

**S5-233831 Reply LS on 3GPP work on Energy Efficiency**

*Type: LS in For: (not specified)  
 Original outgoing LS: C1-232650, to -, cc -  
 Source: C1-232650*

**Discussion:**

SA5 VC (Huawei): CT1 would like to inform that at present, there is not any CT1-led Rel-18 work item related to Energy Efficiency.

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

**S5-233832 Reply LS on 3GPP work on Energy Efficiency**

*Type: LS in For: (not specified)  
 Original outgoing LS: C3-231470, to -, cc -  
 Source: C3-231470*

**Discussion:**

SA5 VC (Huawei): CT3 would like to inform SA5 that it is currently not undertaking any work related to energy efficiency, energy saving and/or digital sobriety in Rel-18. CT3 will keep SA5 informed if there is any change.

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

**S5-233834 Reply LS on Approval of eQoE CRs for NR**

*Type: LS in For: (not specified)  
 Original outgoing LS: R2-2304401, to -, cc -  
 Source: R2-2304401*

**Discussion:**

SA5 VC (Huawei): RAN2 reply to SA5 with actions, RAN2 respectfully asks SA5 to take the above information into account and to update the QoE specification TS 28.405.

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

**S5-233835 LS on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-232047, to -, cc -  
 Source: R3-232047*

**Discussion:**

SA5 VC (Huawei): Actions for SA5, RAN3 respectfully asks SA5 to provide feedback on the above questions.

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

**S5-233836 Reply LS on introduction of a new attribute ""Only Resource Coordination"" to support source coordination between LTE and NR SA**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-232051, to -, cc -  
 Source: R3-232051*

**Discussion:**

SA5 VC (Huawei): RAN3 kindly asks SA5 to take above feedbacks into account and introduce in their specification a new attribute in the NCRT. Related tdocs S5-234098/S5-234099

**Decision:** The document was **replied to in S5-234839**.

**S5-234551 Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA**

*Type: LS out For: approval  
 to R3-232051  
 Source: China Telecom*

**Discussion:**

see also CR S5-234098

China Telecom: depending on CR S5-234804

Ericsson: as CR S5-234804 was not agreed, it is not useful to send the LSout

Nokia: we could send an LS to RAN3 asking for clarifications

**Decision:** The document was **revised to S5-234826**.

**S5-234826 Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA**

*Type: LS out For: approval  
 to R3-232051  
 Source: China Telecom*

(Replaces S5-234551)

**Discussion:**

SA5 chair: we want to get information back so the action is not clear

**Decision:** The document was **revised to S5-234839**.

**S5-234839 Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA (to:RAN3; cc: -; contact: China Telecom)**

*Type: LS out For: approval  
 to RAN3  
 Source: China Telecom*

(Replaces S5-234826)

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

**S5-233837 LS on MDT measurements collection in MR-DC**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-232070, to -, cc -  
 Source: R3-232070*

**Discussion:**

SA5 VC (Huawei): RAN3 discussed whether it is beneficial for the OAM to indicate whether an MDT configuration should be triggered for the MN node only or for the SN node only or for both. RAN3 would like to ask SA5 feedback on whether such indication from OAM is considered beneficial.

reply LSout was planned in S5-234537

conclusion: finally the LSin S5-233837 was postponed and no reply LS was sent so far

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

**S5-234134 Reply LS on MDT measurements collection in MR-DC**

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

**Discussion:**

Samsung: we do not agree to this answer

Nokia, Samsung: object

**Decision:** The document was **revised to S5-234537**.

**S5-234537 Reply LS on MDT measurements collection in MR-DC**

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

(Replaces S5-234134)

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

**S5-233838 LS on collecting QoE measurements per MBS service area and MBS session ID**

*Type: LS in For: (not specified)  
 Original outgoing LS: R3-232079, to -, cc -  
 Source: R3-232079*

**Discussion:**

SA5 VC (Huawei): RAN3 kindly asks SA5 to provide feedback on Q1-Q4 above.

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

**S5-233849 LS on NCR Solutions**

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

**Discussion:**

SA5 VC (Huawei): 3GPP RAN3 kindly asks SA5 to provide their feedback to the NCR questions

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

**S5-233839 LS for improved KPIs involving end-to-end data volume transfer time analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2304067, to -, cc -  
 Source: S2-2304067*

**Discussion:**

SA5 VC (Huawei):

a) SA2 kindly asks SA5 to evaluate and inform SA2 about the possibility of further evolving the RAN part uplink and downlink delay and information related to the average uplink/downlink packet delay between PSA\_UPF and UE to pertain to specific UE of interest, possibly via MDT or other means available to SA5.

b)If the answer to a) is no, SA2 kindly asks SA5 to comment whether other available or to-be-developed KPIs should be used to provide the per specific UE RAN delay and the per specific UE to PSA\_UPF UL/DL delay values

reply LSout was planned in S5-234548

conclusion: finally LSin S5-233839 was postponed as no reply LSout was agreed

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

**S5-234548 Reply LS to S2-2304067 = S5-233839 on improved KPIs involving end-to-end data volume transfer time analytics**

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

**Discussion:**

Intel: we request to postpone this

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

**S5-233841 LS on OAM input data for QoS Sustainability Analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2306095, to -, cc -  
 Source: S2-2306095*

**Discussion:**

SA5 VC (Huawei): SA2 kindly asks SA5 to make the necessary updates to their specifications and provide feedback to SA2 as needed.

conclusion: Create an OAM AP to update the SA5 TS 28.552 and TS 28.554 according to the SA2 proposals

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

**S5-233848 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: S3-231400, to -, cc -  
 Source: S3-231400*

**Discussion:**

SA5 VC (Huawei): SA3 replies to SA2 LS on secured and trusted access to the serving PLMN OAM server by a MBSR.

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

**S5-233842 LS on initiation of new work item ITU-T Y.REOUPF: ""Resource efficiency optimization for managing user plane function in IMT-2020 networks and beyond""**

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

**Discussion:**

SA5 VC (Huawei): ITU-T informed SA5 about the initiation of a new work item on “Resource efficiency optimization for managing user plane function in IMT-2020 networks and beyond”

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

**S5-233843 LS on Y.3159 ""Framework for classifying network slice level in future networks including IMT-2020""**

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

**Discussion:**

SA5 VC (Huawei): ITU-T Study Group 13 Working Party 1 (WP1/13) Question 21 (Q21/13) would like to inform about the consent of the new Recommendation, ITU-T Y.3159 "Framework for classifying network slice level in future networks including IMT-2020."

**Decision:** The document was **replied to in S5-234651**.

**S5-234651 Reply LS to ITU-T SG13-LS80 = S5-233843 on Y.3159 "Framework for classifying network slice level in future networks includin"g IMT-2020" (to: ITU-T SG13/Q21; cc: SA2, GSMA; contact: BT)**

*Type: LS out For: approval  
 to ITU-T SG13/Q21, cc SA2, GSMA  
 Source: SA5*

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

**S5-233844 LS on Information and request of advice on the SG13 plan to initiate a new work item on ""Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective,**

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

**Discussion:**

SA5 VC (Huawei): Leaders’ recommendation: ITU-T Study Group 13 would like to inform you and request your advice about the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective". Draft reply in S5-234281/S5-234296.

**Decision:** The document was **replied to in S5-234547**.

**S5-234281 LS reply to ITU-T SG13 on LS on Information and request of advice on the SG13 plan to initiate a new work item**

*Type: LS out For: Approval  
 to ITU-T SG13, cc ITU-T SG5, 3GPP SA1  
 Source: China Mobile Com. Corporation*

**Abstract:**

moved from AI 5.2 to AI 6.1

**Discussion:**

merged into S5-234547

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

**S5-234296 Reply LS to LS on Information and request of advice on the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective"**

*Type: LS out For: Approval  
 to ITU-T Q20/13, cc 3GPP SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN  
 Source: Huawei*

**Decision:** The document was **revised to S5-234547**.

**S5-234547 Reply LS to ITU-T SG13 LS S5-233844 on Information and request of advice on the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective" (to: ITU-T Q20/13; cc: SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN; contact: Huawei)**

*Type: LS out For: Approval  
 to ITU-T Q20/13, cc SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN  
 Source: SA5*

(Replaces S5-234296)

**Discussion:**

includes aspects of S5-234281

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

**S5-233847 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*

**Discussion:**

SA5 VC (Huawei): ITU-T Study Group 13 would like to inform you that the new Recommendation ITU-T Y.3183 (formerly Y.ML-IMT2020-VNS), “Framework for network slicing management assisted by machine learning leveraging QoE feedback from verticals”, has been consented at the ITU-T WP1/13 plenary on 25 November 2022.

conclusion: create an AP to check if there is any overlap with our work, and if so, we should inform them with an LS

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

**S5-234338 LS on initiation of draft new Recommendation ITU-T Y.IMT2020-MEVE-req-frame “Future networks including IMT-2020: requirements and framework for measurement of effectiveness and value evaluation of autonomous networks”**

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

**Discussion:**

SA5 VC (Huawei): SG13 agreed on the initiation of the draft new Recommendation ITU-T Y.IMT2020-MEVE-req-frame “Future networks including IMT-2020: requirements and framework for measurement of effectiveness and value evaluation of autonomous networks”.

conclusion: create an AP to check if there is any overlap with our work, and if so, we should inform them with an LS

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

**S5-234442 LS on ITU FG AN Build-a-thon 2023**

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

**Discussion:**

SA5 VC (Huawei): ITU FG informed SA5 about Launch of Build-a-thon 2023.

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

**S5-233845 ZSM work on AI enablers and intent-driven autonomous networks**

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

**Discussion:**

SA5 VC (Huawei): The ETSI ISG Zero-touch network and Service Management (ZSM) would like to use the publication of our second Group Specification and Group Report in the areas of Artificial Intelligence (AI) Enablers and Intent-driven Autonomous Networks to inform you about our work in these areas.

reply LSout was planned in S5-234549

conclusion: finally LSin S5-233845 was postponed

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

**S5-234549 Reply to ETSI ZSM S5-233845 work on AI enablers and intent-driven autonomous networks**

*Type: LS out For: approval  
 to ETSI ZSM  
 Source: Huawei*

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

**S5-233833 Withdrawal of ETSI GS NFV-MAN 001**

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

**Discussion:**

SA5 VC (Huawei): ETSI ISG NFV has decided to withdraw ETSI GS NFV-MAN 001 v1.1.1. Its content is superseded by ETSI GS NFV 006 and a set of GSs in the NFV-IFA series

conclusion: create an OAM AP to update the references in all impacted SA5 specs (if any)

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

**S5-234441 Information on ETSI EE monitoring standard and support from 3GPP SA5**

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

**Discussion:**

SA5 VC (Huawei): Fix a common e-meeting between the different organizations.

**Decision:** The document was **replied to in S5-234594**.

**S5-234594 Reply LS to ETSI TC EE(23)000005 = S5-234441 on Information on ETSI EE monitoring standard and support from 3GPP SA5 (to: ETSI TC EE WG2; cc: ITU-T SG5 Q6, NGMN Green Future Networks; contact: Huawei)**

*Type: LS out For: approval  
 to ETSI TC EE, cc ITU-T SG5 Q6, NGMN Green Future Networks  
 Source: SA5*

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

**S5-233852 LS to SA5 on E2E Network Slicing Requirements**

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

**Discussion:**

SA5 VC (Huawei): The "availability attribute and jitter attribute" mentioned in clause 3.1.3 “Deterministic and operator-controlled UE behaviour” of NG.135 are related to one specific service requirement. However, “SLA assurance in E2E” mentioned in clause 3.1.2 and A.1.2 is a set of performance requirements of a network slice. In this respect, aspects discussed in clauses 3.1.2 and 3.1.3 of NG.135 are different.

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

**S5-233850 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*

**Discussion:**

SA5 VC (Huawei): a. O-RAN WG9 kindly asks 3GPP SA5 to take the information above into account and provide their feedback.

b. O-RAN WG9 kindly asks 3GPP SA5 to provide guideline on how transport network information may be reflected in TS 28.541 6.3.18.2 EP\_Transport.

c. O-RAN WG9 kindly asks 3GPP SA5 to provide guideline on how to extract the following key values information on per network slice fashion.

Related tdoc S5-233969.

**Decision:** The document was **replied to in S5-234824**.

**S5-234550 Reply LS to O-RAN\_WG9\_S-2022003 = S5-233850 and S5-234493 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 **revised to S5-234824**.

**S5-234824 Reply LS to O-RAN\_WG9\_S-2022003 =S5-233850 and O-RAN\_WG9\_S-2023005 = S5-234493 on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 (to: cc: SA, SA3, RAN; contact: Ericsson)**

*Type: LS out For: approval  
 to O-RAN WG9, cc SA, SA3, RAN  
 Source: SA5*

(Replaces S5-234550)

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

**S5-234493 LS on O-RAN - Transport Network Slicing Enhancement IM/DM TS28.541 (O-RAN\_WG9\_S-2023005; to: SA5; cc: SA, RAN; contact: Telefonica)**

*Type: LS in For: -  
 Original outgoing LS: O-RAN\_WG9\_S-2023005, to SA5, cc SA, RAN  
 Source: O-RAN WG9*

**Abstract:**

late LSin; update of LSin S5-233850

**Discussion:**

moved from AI 5.3 to AI 6.1 as related to S5-233850

**Decision:** The document was **replied to in S5-234824**.

**S5-234058 Collection of useful endorsed document and external communication documents**

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

(Replaces S5-233527)

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

**S5-234062 Rel-18 & Rel-19 time plan proposal for OAM**

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

(Replaces S5-233555)

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

**S5-234252 Presentation of TR 28.864 to TSG for approval**

*Type: TS or TR cover For: Approval  
 28.864 v2.0.0  
 Source: China Telecommunications*

**Abstract:**

Presentation of TR28.864 v2.0.0 to TSG for approval. See S5-233679 v1.1.0 of SA5 #148e, no pCR of SA5 #149

**Discussion:**

SA5 chair: version will be corrected in SP Tdoc

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

**S5-234436 F2F meeting process for OAM**

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

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

**S5-234506 LS about status of FEAT24 “VNF-OAM” development by ETSI NFV (ETSI\_ISG\_NFV(23)000099; to: SA5; cc: -; contact: ZTE)**

*Type: LS in For: -  
 Original outgoing LS: ETSI\_ISG\_NFV(23)000099, to SA5, cc -  
 Source: ETSI ISG NFV*

**Abstract:**

moved from AI 5.3 to AI 6.1

**Discussion:**

Huawei: it is not urgent, we can handle it in the next meeting

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

**S5-234663 Reply to S5-233276 and S5-233277 on enhanced intent driven management services for mobile networks (ETSI ISG ZSM(23)000104r1; to: SA5; cc: -; contact: Nokia)**

*Type: LS in For: -  
 Original outgoing LS: ETSI ISG ZSM(23)000104r1, to -, cc -  
 Source: ETSI ISG ZSM*

**Abstract:**

late LS arrived on Wed of SA5 #149

**Discussion:**

SA5 chair: rapporteur of intent management may provide a presentation to ETSI ISG ZSM in autumn

**Decision:** The document was **replied to in S5-234697**.

**S5-234697 Reply to ETSI ISG ZSM(23)000104r1 = S5-234663 on enhanced intent driven management services for mobile networks (to: ETSI ISG ZSM; cc: -, contact: Huawei)**

*Type: LS out For: approval  
 to ETSI ISG ZSM  
 Source: SA5*

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

### 6.2 New OAM&P Work Item proposals

#### 6.2.1 Intelligence and Automation

#### 6.2.2 Management Architecture and Mechanisms

**S5-233943 Revised SID on Management of TraceMDT Phase 2**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: concern that some RAN work is not completed?

**Decision:** The document was **revised to S5-234498**.

**S5-234498 Revised SID on Management of TraceMDT Phase 2**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233943)

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

**S5-233944 Revised WID on Management of Trace/MDT phase 2**

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

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

**S5-234263 Revised WID on Service Based Management Architecture(SBMA) Phase 2**

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

**Discussion:**

Samsung: solution for advertising NRM properties need to be agreed first before adding capability objective

Ericsson: new TS number 28.XXX number should be added

DT: is also supporting the WID

**Decision:** The document was **revised to S5-234499**.

**S5-234499 Revised WID on Service Based Management Architecture(SBMA) Phase 2**

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

(Replaces S5-234263)

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

**S5-234225 Updated WID on enhanced Edge Computing Management**

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

**Abstract:**

moved from AI 6.2 to AI 6.2.2

**Discussion:**

Huawei: Joey as rapporteur who is no longer attending?

Intel: will provide a new rapporteur later this week

Ericsson: objective 2 and 3 can be merged

**Decision:** The document was **revised to S5-234500**.

**S5-234500 Updated WID on enhanced Edge Computing Management**

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

(Replaces S5-234225)

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

**S5-234361 New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2**

*Type: WID new For: Agreement  
 Source: China Unicom, Ericsson, Huawei, ZTE, CMCC, China Telecom, AsiaInfo*

**Discussion:**

Nokia: objectives: nothing of the discussions of the rapporteurs' call was included here

China Unicom: we do not propose new requirements for MSAC

DT: difference between "management requirements" and "requirements" to be clarified

**Decision:** The document was **revised to S5-234501**.

**S5-234501 New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2**

*Type: WID new For: Agreement  
 Source: China Unicom, Ericsson, Huawei, ZTE, CMCC, China Telecom, AsiaInfo*

(Replaces S5-234361)

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

**S5-234379 New Rel-18 WID on Management Aspects of URLLC**

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

**Discussion:**

Nokia: last objective unclear

**Decision:** The document was **revised to S5-234806**.

**S5-234806 New Rel-18 WID on Management Aspects of URLLC**

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

(Replaces S5-234379)

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

**S5-234800 Revised SID: Study on Basic SBMA enabler enhancements**

*Type: SID revised For: Agreement  
 Source: Nokia*

**Abstract:**

last approved SID: SP-220145

**Discussion:**

moved from AI 6.8.2 to AI 6.2.2

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

#### 6.2.3 Support of New Services

**S5-233830 New WID on network slice management capability exposure**

*Type: WID new For: Agreement  
 Source: Alibaba Group, AsiaInfo, China mobile, China Unicom*

(Replaces S5-232812)

**Abstract:**

moved from AI 6.2 to AI 6.2.3

**Discussion:**

Huawei: "needs to be studied" and "there is no study" is contradicting; in objective should say network slice management

Ericsson: is a late contribution, why are we discussiong this?

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

**S5-234056 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, Vodafone, China Mobile*

**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.

**Discussion:**

will be handled in evening session so that proponent can be present

Nokia: would like to be added as supporting company

**Decision:** The document was **revised to S5-234825**.

**S5-234825 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, Vodafone, China Mobile*

(Replaces S5-234056)

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

**S5-234057 Rel-18 NSOEU TS 28.XYZ pCR Scope**

*Type: other For: Approval  
 Source: Samsung*

**Abstract:**

This pCR proposes a scope for the new TS 28.XYZ proposed by the NSOEU work item.

**Discussion:**

This Tdoc will only to be treated after the related WID approval by SA; see S5-234056.

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

**S5-234059 Skeleton of 3GPP TS 28.XYZ Network and Services Operations for Energy Utilities**

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

**Abstract:**

A cover sheet and skeleton proposal for the new TS proposed by the NSOEU WID.

**Discussion:**

This Tdoc will only to be treated after the related WID approval by SA; see S5-234056.

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

**S5-234067 FS\_NSOEU and NSOEU WoP**

*Type: other For: Information  
 Source: Samsung R&D Institute UK*

**Abstract:**

A work package plan for this and coming meetings or FS\_NSOEU and NSOEU.

**Discussion:**

This Tdoc will only to be treated after the related WID approval by SA; see S5-234056.

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

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

**S5-233817 Allow YANG anydata**

*Type: CR For: Agreement  
 32.160 v17.7.0 CR-0036 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-233818 Allow YANG anydata**

*Type: CR For: Agreement  
 32.160 v18.1.0 CR-0037 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Nokia: "allow" in title and "shall not use" in the contents?

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

**S5-233820 Netconf with-defaults**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0250 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Nokia: is not an error correction/cat.F

Ericsson: Yang libary must be supported was already written in REL-16 spec (32.160)

**Decision:** The document was **revised to S5-234746**.

**S5-234746 Netconf with-defaults**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0250 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233820)

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

**S5-233819 Netconf with-defaults**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0249 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

MCC: 28.532 does not yet exist in REL-18

**Decision:** The document was **revised to S5-234747**.

**S5-234747 Netconf with-defaults**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0249 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233819)

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

**S5-233821 Indicate missed data change notifications**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0251 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Huawei: is changing functionality (compared to 28.... 6.2.2); it needs a new WI, can not be cat.F

Nokia: CR is adding new functionality; not sure an own WI is needed; we could cover it in the SBMA REL-18 WI

Samsung: agrees that this cannot be cat.F; this will never end ...

SA5 VC (Huawei): could we agree to solve this in REL-18?

conclusion: will be discussed offline how this could be addressed in REL-18

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

**S5-233825 Clarify MnsRegistry handling**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0243 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Huawei: last sentence is very confusing

**Decision:** The document was **revised to S5-234748**.

**S5-234748 Clarify MnsRegistry handling**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0243 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233825)

**Discussion:**

Nokia: objects

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

**S5-233826 Clarify MnsRegistry handling**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0244 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-234749**.

**S5-234749 Clarify MnsRegistry handling**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0244 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233826)

**Discussion:**

Nokia: objects

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

**S5-233827 Clarify MnsRegistry handling, YANG SS**

*Type: CR For: Agreement  
 28.623 v17.5.1 CR-0242 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-234750**.

**S5-234750 Clarify MnsRegistry handling, YANG SS**

*Type: CR For: Agreement  
 28.623 v17.5.1 CR-0242 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233827)

**Discussion:**

Nokia: objects

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

**S5-233828 Clarify MnsRegistry handling, YANG SS**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0243 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-234751**.

**S5-234751 Clarify MnsRegistry handling, YANG SS**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0243 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233828)

**Discussion:**

Nokia: objects

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

**S5-233881 Clarifying multilevel attribute properties**

*Type: CR For: Agreement  
 32.156 v17.2.0 CR-0054 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-233882 Clarifying multilevel attribute properties**

*Type: CR For: Agreement  
 32.156 v17.2.0 CR-0052 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233071)

**Discussion:**

Nokia: what are "user defined data type"? Who is the user?

Ericsson: defined already in the spec

**Decision:** The document was **revised to S5-234752**.

**S5-234752 Clarifying multilevel attribute properties**

*Type: CR For: Agreement  
 32.156 v17.2.0 CR-0052 rev 3 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233882)

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

**S5-233883 Clarifying multilevel attribute properties**

*Type: CR For: Agreement  
 32.156 v18.1.0 CR-0053 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233072)

**Decision:** The document was **revised to S5-234753**.

**S5-234753 Clarifying multilevel attribute properties**

*Type: CR For: Agreement  
 32.156 v18.1.0 CR-0053 rev 3 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-233883)

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

**S5-234004 Rel-16 CR 32.158 Clarify usage of filter query parameter**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0099 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234754**.

**S5-234754 Rel-16 CR 32.158 Clarify usage of filter query parameter**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0099 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234004)

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

**S5-234011 Rel-17 CR 32.158 Clarify usage of filter query parameter**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0100 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC: CR number on CR cover is wrong (has to have 4 digits)

**Decision:** The document was **revised to S5-234755**.

**S5-234755 Rel-17 CR 32.158 Clarify usage of filter query parameter**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0100 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234011)

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

**S5-234012 Rel-16 CR 32.158 Correct JSON schema fragment for JSON Patch documents**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0101 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234013 Rel-17 CR 32.158 Correct JSON schema fragment for JSON Patch documents**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0102 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234014 Rel-16 CR 32.158 Clarify usage of the attributes container for object selection**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0103 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234756**.

**S5-234756 Rel-16 CR 32.158 Clarify usage of the attributes container for object selection**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0103 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234014)

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

**S5-234015 Rel-17 CR 32.158 Clarify usage of the attributes container for object selection**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0104 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234757**.

**S5-234757 Rel-17 CR 32.158 Clarify usage of the attributes container for object selection**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0104 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234015)

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

**S5-234018 Rel-16 CR 32.158 Clarify usage of the attributes container for complete resource updates**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0105 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234758**.

**S5-234758 Rel-16 CR 32.158 Clarify usage of the attributes container for complete resource updates**

*Type: CR For: Agreement  
 32.158 v16.9.0 CR-0105 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234018)

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

**S5-234021 Rel-17 CR 32.158 Clarify usage of the attributes container for complete resource updates**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0106 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shnaghai Bell*

**Decision:** The document was **revised to S5-234759**.

**S5-234759 Rel-17 CR 32.158 Clarify usage of the attributes container for complete resource updates**

*Type: CR For: Agreement  
 32.158 v17.4.0 CR-0106 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shnaghai Bell*

(Replaces S5-234021)

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

**S5-234022 Rel-16 CR 28.532 Correct media types used with HTTP Patch**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0257 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234023 Rel-17 CR 28.532 Correct media types used with HTTP Patch**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0258 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234025 Rel-15 CR 28.622 Add clarification on TS version applicable for the IRP framework**

*Type: CR For: Agreement  
 28.622 v15.7.0 CR-0258 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234026 Rel-16 CR 28.622 Add clarification on TS version applicable for the IRP framework**

*Type: CR For: Agreement  
 28.622 v16.15.0 CR-0259 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234027 Rel-17 CR 28.622 Add clarification on TS version applicable for the IRP framework**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0260 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234028 Rel-18 CR 28.622 Add clarification on TS version applicable for the IRP framework**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0261 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234030 Rel-16 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing**

*Type: CR For: Agreement  
 28.622 v16.15.0 CR-0262 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: font of IOC to be corrected

**Decision:** The document was **revised to S5-234762**.

**S5-234762 Rel-16 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing**

*Type: CR For: Agreement  
 28.622 v16.15.0 CR-0262 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234030)

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

**S5-234031 Rel-17 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0263 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234763**.

**S5-234763 Rel-17 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0263 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234031)

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

**S5-234032 Rel-18 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0264 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234764**.

**S5-234764 Rel-18 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0264 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234032)

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

**S5-234033 Clarify AlarmList locking**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0265 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Huawei: is a major change that breaks implementation of every consumer, this cannot be cat.F

Ericsson: forces us to store historic data which may be out-of-date

Huawei: spec says it is locked; consumer will be confused; it implies that consumer could change what was locked

Samsung: agrees with Huawei that it unclear about which costs the CR author is worried about

**Decision:** The document was **revised to S5-234765**.

**S5-234765 Clarify AlarmList locking**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0265 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-234033)

**Discussion:**

Nokia: objects, requires further discussion

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

**S5-234034 Clarify AlarmList locking**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0266 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-234766**.

**S5-234766 Clarify AlarmList locking**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0266 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-234034)

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

**S5-234035 Clarify AlarmList locking YANG**

*Type: CR For: Agreement  
 28.623 v17.5.1 CR-0247 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Ericsson: is stage 2 as well

SA5 VC (Huawei): no stage 3

**Decision:** The document was **revised to S5-234767**.

**S5-234767 Clarify AlarmList locking YANG**

*Type: CR For: Agreement  
 28.623 v17.5.1 CR-0247 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-234035)

**Discussion:**

Nokia: objects as this is stage 3 to previous CR

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

**S5-234036 Clarify AlarmList locking YANG**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0248 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-234768**.

**S5-234768 Clarify AlarmList locking YANG**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0248 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-234036)

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

**S5-234070 YANG Corrections**

*Type: CR For: Agreement  
 28.623 v17.5.1 CR-0249 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-234072 YANG Corrections**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0250 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Ericsson: change is not identical

SA5 VC (Huawei): should not use the same title

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

**S5-234071 YANG Corrections**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0915 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-234073 YANG Corrections**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0916 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-234270 Correction of attribute Syntax**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0267 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S5-234272 Correction of attribute syntax**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0268 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S5-234276 Correction of reference and alarm information**

*Type: CR For: Agreement  
 28.532 v15.8.0 CR-0261 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

Nokia: has a problem with a reference

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

**S5-234769 Correction of reference and alarm information**

*Type: CR For: Agreement  
 28.532 v15.8.0 CR-0261 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Discussion:**

was originally a revision of S5-234276

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

**S5-234279 Correction of RFC references and alarm information**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0262 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S5-234770 Correction of RFC references and alarm information**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0262 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

was originally revision of S5-234279

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

**S5-234282 Correction of RFC references, and alarm information**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0263 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S5-234771 Correction of RFC references, and alarm information**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0263 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

was originally revision of S5-234282

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

**S5-234303 Move Attibute definitions to UML repertoire**

*Type: CR For: Agreement  
 32.156 v17.2.0 CR-0055 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Nokia: concept of attribute properties is not yet introduced so prefers to avoid this term; check 28.532

**Decision:** The document was **revised to S5-234772**.

**S5-234772 Move Attibute definitions to UML repertoire**

*Type: CR For: Agreement  
 32.156 v17.2.0 CR-0055 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-234303)

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

**S5-234348 Rel-18 CR 32.156 Move Attribute definitions to UML repertoire**

*Type: CR For: Agreement  
 32.156 v18.1.0 CR-0056 Cat: A (Rel-18)  
  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-234773**.

**S5-234773 Rel-18 CR 32.156 Move Attribute definitions to UML repertoire**

*Type: CR For: Agreement  
 32.156 v18.1.0 CR-0056 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-234348)

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

**S5-234370 Rel-17 CR 28.537 Clarify management service discovery use cases**

*Type: CR For: Agreement  
 28.537 v17.3.0 CR-0012 Cat: F (Rel-17)  
  
 Source: Ericsson Inc.*

**Discussion:**

MCC: missing CR number on CR cover

Huawei: link to change in other spec not correct; is stage 1 so very strange to have this detailed references

Samsung: strange to have this reason for change

Samsung: why capabilities deleted?

Ericsson: already covered

Nokia: CR has to stay within REL-17

Ericsson: attempts to rewrite the stage 1 section to align with what we actually did

Ericsson: we will bring a REL-18 version to the next meeting

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

**S5-234375 Rel-17 CR 28.532 Clarify streaming data reporting service definitions**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0264 Cat: F (Rel-17)  
  
 Source: Ericsson Inc.*

**Discussion:**

MCC: missing CR number on CR cover

**Decision:** The document was **revised to S5-234774**.

**S5-234774 Rel-17 CR 28.532 Clarify streaming data reporting service definitions**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0264 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Inc.*

(Replaces S5-234375)

**Discussion:**

conclusion: agreed unseen

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

#### 6.3.1 Methodology

#### 6.3.2 ANL

#### 6.3.3 MDAS

**S5-233920 Rel-17 CR TS 28.104 Correcting attribute type for Recommended 3GPP action and MDA type for Paging Use case**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0044 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233921 Rel-17 CR TS 28.104 Replacing MDAEntity with ManagedEntity**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0045 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: we can withdraw it

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

**S5-234100 Add error handling in MDA report**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0046 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-234101 Correction of attributes in MDAOutputs dataType**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0047 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234775**.

**S5-234775 Correction of attributes in MDAOutputs dataType**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0047 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-234101)

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

**S5-234102 Remove duplicate mdaType in MDA report**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0048 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-234353 CR Rel-17 TS 28.105 Removal of SW loading from training phase**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0030 Cat: F (Rel-17)  
  
 Source: Ericsson-LG Co., LTD*

**Discussion:**

MCC: spec version shall have no V in version on CR cover

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

**S5-234355 Rel-17 TS 28.105 Correction of the figure for ML training function**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0031 Cat: F (Rel-17)  
  
 Source: Ericsson-LG Co., LTD*

**Discussion:**

MCC: spec version shall have no V in version on CR cover

**Decision:** The document was **revised to S5-234777**.

**S5-234777 Rel-17 TS 28.105 Correction of the figure for ML training function**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0031 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-234355)

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

**S5-234424 CR TS28.104 Corrections of the requirements on MDA capability**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0053 Cat: F (Rel-17)  
  
 Source: NEC, Intel*

**Discussion:**

MCC: missing CR number on CR cover

Huawei: reason for change is strange

Nokia: would be happy to co-source the Tdoc

**Decision:** The document was **revised to S5-234778**.

**S5-234778 CR TS28.104 Corrections of the requirements on MDA capability**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0053 rev 1 Cat: F (Rel-17)  
  
 Source: NEC, Intel*

(Replaces S5-234424)

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

#### 6.3.4 AI/ML

**S5-233922 Rel-17 CR TS 28.105 Correcting the attribute properties**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0022 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234779**.

**S5-234779 Rel-17 CR TS 28.105 Correcting the attribute properties**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0022 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233922)

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

#### 6.3.5 Energy efficiency

**S5-233887 Update NG-RAN data EE KPI definition with reference to TS 28.554**

*Type: CR For: Agreement  
 28.310 v16.6.0 CR-0028 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: CR goes into wrong direction, 28.310 is an umbrella spec for energy efficiency so voiding the text goes into the wrong direction

Nokia: there is a reference in 28.554 and we just remove duplicated text

Huawei: 28.554 is about KPIs but there is no redundancy

SA5 chair: seems the CR is not acceptable for Huawei

Ericsson: similar view as Huawei

Nokia: maybe we could remove then the text from 28.554 and have a reference to 28.310

Huawei: does not like to have KPIs defined outside of 28.554

Samsung: text is not the same as in 28.554

Huawei: objects

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

**S5-233888 Update NG-RAN data EE KPI definition with reference to TS 28.554**

*Type: CR For: Agreement  
 28.310 v17.5.0 CR-0029 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233889 Update NG-RAN data EE KPI definition with reference to TS 28.554**

*Type: CR For: Agreement  
 28.310 v18.1.0 CR-0030 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233890 Remove redundant Network Slice EE KPI definition**

*Type: CR For: Agreement  
 28.310 v17.5.0 CR-0031 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: KPIs are defined in 28.554

Nokia: it is a copy and paste from 28.554; suggests to work with Huawei for next meeting on a compromise proposal to avoid complete duplication

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

**S5-233891 Remove redundant Network Slice EE KPI definition**

*Type: CR For: Agreement  
 28.310 v18.1.0 CR-0032 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

#### 6.3.6 Intent driven management

**S5-233992 Rel-17 CR TS 28.312 Correct the supported qualifier for ExpectationObject and allowed value for contextCondition**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0044 Cat: F (Rel-17)  
  
 Source: Huawei,Nokia,Deutsche Telekom, CMCC, ZTE*

**Decision:** The document was **revised to S5-234780**.

**S5-234780 Rel-17 CR TS 28.312 Correct the supported qualifier for ExpectationObject and allowed value for contextCondition**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0044 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Nokia, Deutsche Telekom, China Mobile Com. Corporation, ZTE*

(Replaces S5-233992)

**Discussion:**

includes aspects of S5-234230

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

**S5-234230 Rel-17 CR 28.312 Add IS\_ALL\_OF to allowedValues in targetCondition and contextCondition attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0065 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Abstract:**

Add a new Value IS\_ALL\_OF in the allowedValues of the targetCondition and contextCondition attributes, indicating that all elements in the List can be selected.

**Discussion:**

moved from AI 6.4.4.3 to AI 6.3.6

MCC: wrong cat. or in which Tdoc is the corresponding cat.F CR?

Huawei: suggests to merge with S5-233992

CMCC: is ok

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

**S5-233993 Rel-17 CR TS 28.312 Update IntentNRM YAML file to align with stage2**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0045 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-233994 Rel-17 CR TS 28.312 Separate YAML file for generic Information model definition and scenario specific IntentExpectation definition**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0046 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234781**.

**S5-234781 Rel-17 CR TS 28.312 Separate YAML file for generic Information model definition and scenario specific IntentExpectation definition**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0046 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233994)

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

**S5-233995 Rel-17 CR TS 28.312 Correct the errors in Table 6.2.2.2-1**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0047 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

Ericsson: would like to check CAMEL cases

**Decision:** The document was **revised to S5-234782**.

**S5-234782 Rel-17 CR TS 28.312 Correct the errors in Table 6.2.2.2-1**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0047 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233995)

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

**S5-234029 Rel-17 CR TS 28.312 Intent Context and Expectation object support for multiple data types**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0049 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Correction for 3GPP TS 28.312 Intent Context and Expectation object support for multiple data types

**Discussion:**

SA5 chair: should have lower case v

Nokia: YAML files should be inside of the CR

MCC: WI code TEI17?

Nokia: whole TS was introduced under IDMS\_MN

**Decision:** The document was **revised to S5-234783**.

**S5-234783 Rel-17 CR TS 28.312 Intent Context and Expectation object support for multiple data types**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0049 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, CMCC, ZTE*

(Replaces S5-234029)

**Discussion:**

Nokia: will come back next meeting

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

**S5-234228 Rel-17 CR 28.312 Add ValueRange type and replace the Real type**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0064 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation, ZTE*

**Abstract:**

For targetValueRange and contextValueRange, the previously defined data type was Real, which is not suitable for expressing the List type and needs to be modified. The choice type can be introduced to define the ValueRange type as an alternative to the Re

**Discussion:**

moved from AI 6.4.4.3 to AI 6.3.6

MCC: wrong cat. or in which Tdoc is the corresponding cat.F CR?

Ericsson: proposing another solution as S5-234029

SA5 chair: reason for change is missing etc.

Ericsson: LIST is not defined

conclusion: merged with S5-234029 in S5-234783

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

**S5-234235 Rel-17 CR 28.312 Fixing documentation and allowed value bug in contextValueRange attribute**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0066 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Abstract:**

In the "Documentation and Allowed Values" information of the contextValueRange attribute, the contextCondition was incorrectly written as targetCondition and needs to be corrected.

**Discussion:**

moved from AI 6.4.4.3 to AI 6.3.6

MCC: wrong cat. or in which Tdoc is the corresponding cat.F CR?

SA5 chair: reason for changes, summary of chance, consequences approved, other specs affected missing, change affects missing

SA5 chair: no stage 3 impact? seems so

**Decision:** The document was **revised to S5-234784**.

**S5-234784 Rel-17 CR 28.312 Fixing documentation and allowed value bug in contextValueRange attribute**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0066 rev 1 Cat: F (Rel-17)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-234235)

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

**S5-234156 Rel-17 CR 28.312 Clarify the definition of intent expectation fulfilment**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0058 Cat: F (Rel-17)  
  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Discussion:**

MCC: wrong REL on CR cover

Ericsson: should be a REL-17 CR

Nokia: TS 28.312 includes stage 2 and stage 3

**Decision:** The document was **revised to S5-234785**.

**S5-234785 Rel-17 CR 28.312 Clarify the definition of intent expectation fulfilment**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0058 rev 1 Cat: F (Rel-17)  
  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

(Replaces S5-234156)

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

**S5-234351 Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0068 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Abstract:**

Provide an intent interaction method to express Mns consumers' customized requirements for intent reports. By using the existing expectation targets mechanism, to specify under which conditions the MnS producer is expected to create and distribute the cor

**Discussion:**

moved from AI 6.4.4.3 to AI 6.3.6

SA5 VC (Huawei): No related cat F CR?

CMCC: should be REL-18 CR

SA5 chair: yes, when adding it should be REL-18 cat.B

moved from AI 6.3.6 to AI 6.4.4

SA5 chair: summary of change needed, clauses affected etc. missing

**Decision:** The document was **revised to S5-234786**.

**S5-234786 Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0068 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-234351)

**Discussion:**

moved from AI 6.3.6 to AI 6.4.4

Huawei: no Forge link, no stage 3 included

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

#### 6.3.7 SON

#### 6.3.8 QMC

#### 6.3.9 Network slicing management

**S5-233892 Add missing SLS attributes supported in serviceProfile to sliceProfile**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0852 rev 2 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei*

(Replaces S5-233080)

**Discussion:**

Telefonica: for V2X and NB-IOT: what can I not configure if I do not have corresponding attributes?

Ericsson: has another CR (S5-234125) to remove some attributes from service profile

**Decision:** The document was **revised to S5-234788**.

**S5-234788 Add missing SLS attributes supported in serviceProfile to sliceProfile**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0852 rev 3 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei*

(Replaces S5-233892)

**Discussion:**

Telefonica: objects

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

**S5-233893 Add missing SLS attributes supported in serviceProfile to sliceProfile**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0853 rev 2 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei*

(Replaces S5-233081)

**Decision:** The document was **revised to S5-234789**.

**S5-234789 Add missing SLS attributes supported in serviceProfile to sliceProfile**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0853 rev 3 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei*

(Replaces S5-233893)

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

**S5-233894 Add SLS attributes availability and jitter to sliceProfile**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0892 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, KDDI, TELUS*

**Discussion:**

Huawei: LS from GSMA in S5-233852 which indicated that they should not be added; so we need time to check

Nokia: we will then come back to this Tdoc in the next meeting

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

**S5-233895 Add SLS attributes availability and jitter to sliceProfile**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0893 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, KDDI, TELUS*

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

**S5-234152 Rel-18 CR 28.541 Remove jitter from service profile**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0923 Cat: F (Rel-18)  
  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Discussion:**

MCC: WI on CR cover is "TEI18, NETSLICE"; note: NETSLICE was a REL-15 WI

Huawei: more coordination with SA2 needed regarding service profile therefore better not remove at this SA5 meeting

Ericsson: for end-to-end jitter you may have to wait longer until you can remove

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

**S5-233904 Align figure with description in Procedure of NF instance creation**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0179 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: only figure was updated but not the text

Samsung: no asynchronous requirement?

Huawei: maybe a merge with S5-234042 could be considered

**Decision:** The document was **revised to S5-234790**.

**S5-234790 Align figure with description in Procedure of NF instance creation**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0179 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233904)

**Discussion:**

includes aspects of S5-234042

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

**S5-234042 Correct createMOI response description in Procedure of NF instance creation**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0185 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

conclusion: merged into S5-234790

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

**S5-233905 Align figure with description in Procedure of NF instance creation**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0180 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234791**.

**S5-234791 Align figure with description in Procedure of NF instance creation**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0180 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233905)

**Discussion:**

includes aspects of S5-234043

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

**S5-234043 Correct createMOI response description in Procedure of NF instance creation**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0186 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

conclusion: merged into S5-234791

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

**S5-233906 Align figure with description in Procedure of NF instance deletion**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0181 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233907 Align figure with description in Procedure of NF instance deletion**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0182 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233908 Align figure with description in Procedure of NF instance modification**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0183 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233909 Align figure with description in Procedure of NF instance modification**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0184 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233996 Rel-17 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0909 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

Ericsson: correct style of the note

**Decision:** The document was **revised to S5-234792**.

**S5-234792 Rel-17 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0909 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233996)

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

**S5-233997 Rel-18 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0910 Cat: A (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234793**.

**S5-234793 Rel-18 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0910 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-233997)

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

**S5-234000 Rel-17 CR TS 28.541 Update SliceNRM YAML to align with stage2**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0913 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-234001 Rel-18 CR TS 28.541 Update SliceNRM YAML to align with stage2**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0914 Cat: A (Rel-18)  
  
 Source: Huawei*

**Discussion:**

MCC: wrong spec version 18.13.1 on CR cover

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

**S5-234016 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v15.11.0 CR-0167 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-233086)

**Discussion:**

MCC: wrong rev on CR cover

Nokia: has some editorial comments

Telefonica: remove "isolation" in 2nd change in 5.2.1, just leave sharing

Nokia: we should not remove this, needs more checking

**Decision:** The document was **revised to S5-234794**.

**S5-234794 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v15.11.0 CR-0167 rev 3 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-234016)

**Discussion:**

Telefonica: objects, wants to remove "isolation"

Nokia: if the word is removed, we will object

Telefonica: withdraws objection

MCC: wrong rev 2 on CR cover

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

**S5-234017 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v16.14.1 CR-0168 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-233087)

**Discussion:**

MCC: wrong rev on CR cover

**Decision:** The document was **revised to S5-234795**.

**S5-234795 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v16.14.1 CR-0168 rev 3 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-234017)

**Discussion:**

Telefonica: withdraws objection

MCC: wrong rev 2 on CR cover

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

**S5-234019 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0169 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-233088)

**Discussion:**

MCC: wrong rev on CR cover

**Decision:** The document was **revised to S5-234796**.

**S5-234796 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v17.7.0 CR-0169 rev 3 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-234019)

**Discussion:**

Telefonica: withdraws objection

MCC: wrong rev 2 instead of rev 3 on CR cover

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

**S5-234020 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0170 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-233089)

**Discussion:**

MCC: wrong rev and WI code on CR cover

(note: NETSLICE was a REL-15 WI)

**Decision:** The document was **revised to S5-234797**.

**S5-234797 Clarify network slicing provisioning use case**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0170 rev 3 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-234020)

**Discussion:**

Telefonica: withdraws objection

MCC: wrong rev 2 instead of rev 3 on CR cover

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

**S5-234150 Rel-17 CR 28.541 Clarify use of V2X in service profile**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0886 rev 1 Cat: F (Rel-17)  
  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

(Replaces S5-232358)

**Discussion:**

MCC: wrong REL (REL-18), wrong rev (-) on CR cover; WI code on CR cover is TEI17, NETSLICE (NETSLICE was a REL-15 WI)

Telefonica: reason for change of CR is not correct: V2X and SST=4 are not coupled

Huawei: radioSpectrum in 2nd paragraph of reason for change is not correct

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

**S5-234151 Rel-18 CR 28.541 Clarify use of V2X in service profile**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0887 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson LM, Deutsche Telekom*

(Replaces S5-232363)

**Discussion:**

MCC: wrong rev on CR cover

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

#### 6.3.10 MEC management

**S5-234105 Correct EAS to connect to UPF procedure**

*Type: CR For: Agreement  
 28.538 v17.2.0 CR-0034 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

SA5 chair: clauses affected not filled out

Ericsson: check with SA6

**Decision:** The document was **revised to S5-234815**.

**S5-234815 Correct EAS to connect to UPF procedure**

*Type: CR For: Agreement  
 28.538 v17.2.0 CR-0034 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-234105)

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

**S5-234108 Correct EAS to connect to UPF procedure**

*Type: CR For: Agreement  
 28.538 v18.2.0 CR-0036 Cat: A (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234816**.

**S5-234816 Correct EAS to connect to UPF procedure**

*Type: CR For: Agreement  
 28.538 v18.2.0 CR-0036 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234108)

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

**S5-234106 Correction of ECM NRM**

*Type: CR For: Agreement  
 28.538 v17.2.0 CR-0035 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-234109 Correction of ECM NRM**

*Type: CR For: Agreement  
 28.538 v18.2.0 CR-0037 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-234107 Correction of EcmConnectionInfo**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0919 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

Ericsson: objects

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

**S5-234110 Correction of EcmConnectionInfo**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0920 Cat: A (Rel-18)  
  
 Source: Huawei*

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

#### 6.3.11 General NRM

**S5-233884 Rel-16 CR Correct inconsistency of Distinguish Name (3GPP, YANG)**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0245 Cat: F (Rel-18)  
  
 Source: Dell Technologies*

**Discussion:**

MCC: wrong spec version on CR cover and wrong CR cover template

Ericsson: there is a need for REL-16/17/18 CRs

**Decision:** The document was **revised to S5-234038**.

**S5-234038 Rel-16 CR Correct inconsistency of Distinguish Name (3GPP, YANG)**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0245 rev 1 Cat: F (Rel-18)  
  
 Source: Dell Technologies*

(Replaces S5-233884)

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

**S5-233963 TS28.541 Rel17 Correction to dCHOControl by adding definition to attribute properties table**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0899 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233964 Correction to dCHOControl by adding definition to attribute properties table**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0900 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233965 TS28.541 Rel16 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList**

*Type: CR For: Agreement  
 28.541 v16.15.2 CR-0901 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234801**.

**S5-234801 TS28.541 Rel16 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList**

*Type: CR For: Agreement  
 28.541 v16.15.2 CR-0901 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233965)

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

**S5-233966 TS28.541 Rel17 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0902 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234802**.

**S5-234802 TS28.541 Rel17 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0902 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233966)

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

**S5-233967 TS28.541 Rel18 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0903 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234803**.

**S5-234803 TS28.541 Rel18 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0903 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233967)

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

**S5-233970 TS28.541 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.541 v16.15.2 CR-0906 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC: wrong spec version on CR cover

**Decision:** The document was **revised to S5-234555**.

**S5-234555 TS28.541 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.541 v16.15.2 CR-0906 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233970)

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

**S5-233971 TS28.541 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0907 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234676**.

**S5-234676 TS28.541 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0907 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233971)

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

**S5-233972 TS28.541 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0908 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234677**.

**S5-234677 TS28.541 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0908 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233972)

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

**S5-233973 TS28.622 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.622 v16.15.0 CR-0252 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233974 TS28.622 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0253 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233975 TS28.622 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0254 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233976 TS28.623 Rel17 correction to stage 3 implementation for MnSInfo and MnsRegistry**

*Type: CR For: Agreement  
 28.623 v17.5.1 CR-0245 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233977 TS28.623 Rel18 correction to stage 3 implementation for MnSInfo and MnsRegistry**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0246 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233978 TS28.622 Rel16 correction to missing Notification and Attribute constraints clauses**

*Type: CR For: Agreement  
 28.622 v16.15.0 CR-0255 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233979 TS28.622 Rel17 correction to missing Notification and Attribute constraints clauses**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0256 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233980 TS28.622 Rel18 correction to missing Notification and Attribute constraints clauses**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0257 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233985 TS 28.532 Rel17 resources-edgeNrm is missing in resource schema**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0256 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233998 Rel-17 CR TS 28.541 Correct issues for NR NRM**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0911 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-233999 Rel-18 CR TS 28.541 Correct issues for NR NRM**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0912 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-234098 R17 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0917 Cat: F (Rel-17)  
  
 Source: China Telecom Corporation Ltd., Huawei*

**Discussion:**

Nokia: why do we need this CR?

Huawei: CR is related to LSin S5-233836

SA5 chair: we also prepare a reply LS in S5-234551

Ericsson: LSin S5-233836 is requesting it only for REL-18 and not for REL-17

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

**S5-234099 R18 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0918 Cat: A (Rel-18)  
  
 Source: China Telecom Corporation Ltd., Huawei*

**Discussion:**

after discussion of S5-234098 only REL-18 CR considered

**Decision:** The document was **revised to S5-234804**.

**S5-234804 R18 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0918 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecom Corporation Ltd., Huawei*

(Replaces S5-234099)

**Discussion:**

see also LSout S5-234551

Nokia: does not agree to the CR

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

**S5-234236 Rel-18 CR Correcting NSSI State Diagram**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0928 Cat: F (Rel-18)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

Samsung: wants to discuss it further

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

#### 6.3.12 PM/KPI

**S5-234304 Rel-15 CR 28.554 Correction of accessibility and integrity KPI**

*Type: CR For: Agreement  
 28.554 v15.6.0 CR-0119 Cat: F (Rel-15)  
  
 Source: Ericsson LM*

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

**S5-234305 Rel-16 CR 28.554 Correction of accessibility and integrity KPI**

*Type: CR For: Agreement  
 28.554 v16.12.0 CR-0120 Cat: A (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-234306 Rel-17 CR 28.554 Correction of accessibility and integrity KPI**

*Type: CR For: Agreement  
 28.554 v17.9.0 CR-0121 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-234307 Rel-18 CR 28.554 Correction of accessibility and integrity KPI**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0122 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

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

**S5-234367 Rel-17 CR for TS28.552 Add packet measurements valid for split gNB deployment scenario**

*Type: CR For: Agreement  
 28.552 v17.10.0 CR-0434 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Discussion:**

Samsung: existing measurements can achieve this already

China Unicom: packet number is essential measurement and we support the CR

Samsung: objects

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

**S5-234369 Rel-18 CR for TS28.552 Add packet measurements valid for split gNB deployment scenario**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0435 Cat: A (Rel-18)  
  
 Source: ZTE Corporation*

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

#### 6.3.13 Trace/MDT

**S5-233919 Rel-16 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions**

*Type: CR For: Agreement  
 28.622 v16.15.0 CR-0246 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: change is incorrect

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

**S5-233924 Rel-17 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0248 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

Ericsson: change is incorrect

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

**S5-233935 Rel-18 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0251 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: change is incorrect

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

**S5-233923 Rel-17 CR TS 28.622 Correcting attributes properties for Excess Packet Delay Threshold**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0247 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233934 Rel-18 CR TS 28.622 Correcting attributes properties for Excess Packet Delay Threshold**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0250 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233936 Rel-18 CR TS 28.623 Correcting the min and max Items possible for fiveQIValue attribute in Stage 3**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0244 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: REL-17 change was made and REL-18 change was forgotten and it is provided here

SA5 chair: Forge link missing

**Decision:** The document was **revised to S5-234805**.

**S5-234805 Rel-18 CR TS 28.623 Correcting the min and max Items possible for fiveQIValue attribute in Stage 3**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0244 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233936)

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

**S5-233933 Rel-18 CR TS 28.622 Adding the missing definition of the attribute excessPacketDelayThreshold**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0249 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: REL-17 change was made and REL-18 change was forgotten and it is provided here

SA5 chair: stage 2 update that does not affect stage 3, so no Forge link needed

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

#### 6.3.14 Other

**S5-233981 TS28.532 Rel16 Add missing definition of the JSON Patch document**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0252 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233982 TS28.532 Rel17 Add missing definition of the JSON Patch document**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0253 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233983 TS28.532 Rel16 correction the Information Type for objectClass objectInstance and systemDN**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0254 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: we can not modify closed releases

**Decision:** The document was **revised to S5-234808**.

**S5-234808 TS28.532 Rel16 correction the Information Type for objectClass objectInstance and systemDN**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0254 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233983)

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

**S5-233984 TS28.532 Rel17 correction the Information Type for objectClass objectInstance and systemDN**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0255 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234809**.

**S5-234809 TS28.532 Rel17 correction the Information Type for objectClass objectInstance and systemDN**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0255 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233984)

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

**S5-234002 Add missing supporting management capabilities for several control NRM Fragments**

*Type: CR For: Agreement  
 28.622 v17.5.0 CR-0221 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-232179)

**Discussion:**

Nokia: objects

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

**S5-234003 Add missing supporting management capabilities for several control NRM Fragments**

*Type: CR For: Agreement  
 28.622 v18.2.0 CR-0222 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-232180)

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

**S5-234039 Correction to template for NRM description related to Notifications**

*Type: CR For: Agreement  
 32.160 v16.6.0 CR-0038 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234040 Correction to template for NRM description related to Notifications**

*Type: CR For: Agreement  
 32.160 v17.7.0 CR-0039 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234041 Correction to template for NRM description related to Notifications**

*Type: CR For: Agreement  
 32.160 v18.1.0 CR-0040 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234103 Rel-16 CR 28.532 clarification on notification target**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0259 Cat: F (Rel-16)  
  
 Source: Huawei*

**Discussion:**

MCC: wrong spec version (v16.4.0) on CR cover

**Decision:** The document was **revised to S5-234810**.

**S5-234810 Rel-16 CR 28.532 clarification on notification target**

*Type: CR For: Agreement  
 28.532 v16.14.0 CR-0259 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei*

(Replaces S5-234103)

**Discussion:**

conclusion: agreed unseen

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

**S5-234104 Clarification on notification target**

*Type: CR For: Agreement  
 28.532 v17.4.0 CR-0260 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-234232 Rel-17 CR 28.541 fixing coverageArea**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0925 Cat: F (Rel-17)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

Nokia: support CR but need to be revised

Ericsson: 6.1 needs to be updated

**Decision:** The document was **revised to S5-234811**.

**S5-234811 Rel-17 CR 28.541 fixing coverageArea**

*Type: CR For: Agreement  
 28.541 v17.10.0 CR-0925 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung R&D Institute India*

(Replaces S5-234232)

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

**S5-234234 Rel-18 CR 28.541 fixing coverageArea**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0927 Cat: A (Rel-18)  
  
 Source: Samsung R&D Institute India*

**Decision:** The document was **revised to S5-234812**.

**S5-234812 Rel-18 CR 28.541 fixing coverageArea**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0927 rev 1 Cat: A (Rel-18)  
  
 Source: Samsung R&D Institute India*

(Replaces S5-234234)

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

**S5-234302 Update lifecycle phase description of closed control loop**

*Type: CR For: Agreement  
 28.535 v17.6.0 CR-0070 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-234418 Rel-18 CR for TS28.310 several editorial Corrections**

*Type: CR For: Agreement  
 28.310 v18.1.0 CR-0033 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Discussion:**

ZTE: RAN box need to be ticked

**Decision:** The document was **revised to S5-234813**.

**S5-234813 Rel-18 CR for TS28.310 editorial Corrections**

*Type: CR For: Agreement  
 28.310 v18.1.0 CR-0033 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S5-234418)

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

**S5-234419 Rel-18 CR for TS28.405 several editorial Corrections**

*Type: CR For: Agreement  
 28.405 v18.2.0 CR-0023 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S5-234420 Rel-18 CR for TS28.531 several editorial Corrections**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0188 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S5-234422 Rel-18 CR for TS28.538 several editorial Corrections**

*Type: CR For: Agreement  
 28.538 v18.2.0 CR-0038 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S5-234423 Rel-18 CR for TS28.541 several editorial Corrections**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0931 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Discussion:**

Nokia: need to discuss this

**Decision:** The document was **revised to S5-234814**.

**S5-234814 Rel-18 CR for TS28.541 several editorial Corrections**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0931 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S5-234423)

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

### 6.4 Intelligence and Automation

#### 6.4.1 Self-Configuration of RAN NEs

##### 6.4.1.1 RANSC\_WoP#1

**S5-234135 pCR TS 28.317 Add concept, use case and requirements for network configuration data handling**

*Type: pCR For: Approval  
 28.317 v0.3.0  
 Source: China Mobile, Huawei*

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

**S5-234137 pCR TS 28.317 Add concept, use case and requirements for network configuration data handling**

*Type: pCR For: Approval  
 28.317 v0.3.0  
 Source: China Mobile, Huawei*

(Replaces S5-232905)

**Discussion:**

Ericsson: is harmless but not needed

**Decision:** The document was **revised to S5-234580**.

**S5-234580 pCR TS 28.317 Add concept, use case and requirements for network configuration data handling**

*Type: pCR For: Approval  
 28.317 v0.3.0  
 Source: China Mobile, Huawei*

(Replaces S5-234137)

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234352 pCR TS Correction of the requirements from mandatory to optional**

*Type: pCR For: Approval  
 28.317 v0.3.0  
 Source: Ericsson-LG Co., LTD*

**Decision:** The document was **revised to S5-234581**.

**S5-234581 pCR TS Correction of the requirements from mandatory to optional**

*Type: pCR For: Approval  
 28.317 v0.3.0  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-234352)

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

##### 6.4.1.2 RANSC\_WoP#2

##### 6.4.1.3 RANSC\_WoP#3

##### 6.4.1.4 Draft TS email approval

**S5-234717 TS 28.317 v0.4.0 on Management and orchestration;Self-configuration of Radio Access Network Entities (RAN NEs)**

*Type: draft TS For: Agreement  
 28.317 v0.4.0  
 Source: CMCC*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.4.2 Management Data Analytics phase 2

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

**S5-234045 Input to Draft CR Rel-18 28.104 Add recommended actions for non-3GPP operations**

*Type: other For: Agreement  
 28.104 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234582**.

**S5-234582 Input to Draft CR Rel-18 28.104 Add recommended actions for non-3GPP operations**

*Type: other For: Agreement  
 28.104 v..  
 Source: Intel, NEC*

(Replaces S5-234045)

**Discussion:**

Nokia: could not agree on this

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

**S5-234846 Draft CR eMDAS\_Ph2 – TS28.104; Further enhancements into the Management Data Analytics (Phase 2)**

*Type: draftCR For: Approval  
 28.104 v..  
 Source: Intel*

**Discussion:**

last approved draft CR: S5-233174

inputs: S5-234583, S5-234584, S5-234818

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

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

**S5-233925 Rel-18 Input to draft CR TS 28.104 Enhancing MDARequest to request for analytics infinitely**

*Type: draftCR For: Approval  
 28.104 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

change to "indefinitely"

Huawei: unclear why optional

Intel: 0 means optional not non-value; suggests a clean-up

Nokia: we need to distinguish support qualifier and presence qualifier

**Decision:** The document was **revised to S5-234583**.

**S5-234583 Rel-18 Input to draft CR TS 28.104 Enhancing MDARequest to request for analytics infinitely**

*Type: draftCR For: Approval  
 28.104 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233925)

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

**S5-233927 Rel-18 Input to draft CR TS 28.104 Prediction of PMs**

*Type: draftCR For: Approval  
 28.104 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: several editorial errors, changes in 9.5.1 not needed

**Decision:** The document was **revised to S5-234584**.

**S5-234584 Rel-18 Input to draft CR TS 28.104 Prediction of PMs**

*Type: draftCR For: Approval  
 28.104 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233927)

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

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

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

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

**S5-233926 Rel-18 Input to draft CR TS 28.104 Filtering MDA Recommendations**

*Type: draftCR For: Approval  
 28.104 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Samsung R&D Institute UK*

**Discussion:**

Huawei: vague use case

**Decision:** The document was **revised to S5-234585**.

**S5-234585 Rel-18 Input to draft CR TS 28.104 Filtering MDA Recommendations**

*Type: draftCR For: Approval  
 28.104 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Samsung R&D Institute UK*

(Replaces S5-233926)

**Discussion:**

Huawei: objects

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

**S5-234114 Describe analytics relationship to control loop**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0052 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

Nokia: management analytics outside of control loop

Samsung: same proposal in Athens and SA5 rejected it

Huawei: was not exactly the same

Samsung: objects

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

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

**S5-234111 Add information elements related to fault management**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0049 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234712**.

**S5-234712 Add information elements related to fault management**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0049 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234111)

**Discussion:**

CMCC: objects

Huawei: does not think the concern is related to S5-234712

Nokia: uses "object type" instead of "object class"

CMCC: no revision provided, objects

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

**S5-234112 Add information elements related to service experience analysis**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0050 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234713**.

**S5-234713 Add information elements related to service experience analysis**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0050 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234112)

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

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

**S5-234044 Input to Draft CR Rel-18 28.104 Add MDA capability for resource utilization analysis**

*Type: other For: Agreement  
 28.104 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234818**.

**S5-234818 Input to Draft CR Rel-18 28.104 Add MDA capability for resource utilization analysis**

*Type: other For: Agreement  
 28.104 v..  
 Source: Intel, NEC*

(Replaces S5-234044)

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

**S5-234113 Add use case of MDA assisted virtual resource utilization analysis in CN domain**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0051 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234787**.

**S5-234787 Add use case of MDA assisted virtual resource utilization analysis in CN domain**

*Type: CR For: Agreement  
 28.104 v17.3.0 CR-0051 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234113)

**Discussion:**

Nokia, CMCC: objects, comments not addressed

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

#### 6.4.3 AI/ML management

##### 6.4.3.1 AIML\_MGMT\_WoP#1

**S5-233855 Discussion paper on Proposal for document structure**

*Type: discussion For: Endorsement  
 28.105 v..  
 Source: Nokia Italy*

**Discussion:**

covered in discussion of S5-234389

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

**S5-234389 Input to Draft CR TS 28.105 Enhancements to TS structure**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: NEC, Intel*

**Discussion:**

MCC: 28.105 is not yet existing in REL-18

Intel: may be better to have a real CR so that the new structure is there already

**Decision:** The document was **revised to S5-234593**.

**S5-234593 CR to TS 28.105 on Enhancements to TS structure**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0032 Cat: B (Rel-18)  
  
 Source: NEC, Intel, Nokia*

(Replaces S5-234389)

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

**S5-233856 Rel-18 Input to draft CR TS 28.105 AI/ML inference abstract performance**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234595**.

**S5-234595 Rel-18 Input to draft CR TS 28.105 AI/ML inference abstract performance**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233856)

**Discussion:**

Intel: objects

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

**S5-233857 Rel-18 Input to draft CR TS 28.105 AI/ML inference performance evaluation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: how can consumer be involved in this? requirement 3

**Decision:** The document was **revised to S5-234596**.

**S5-234596 Rel-18 Input to draft CR TS 28.105 AI/ML inference performance evaluation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei*

(Replaces S5-233857)

**Discussion:**

wrong Tdoc number on draftCR

Nokia: plan is to bring a CR to SA #100 to change the structure and other draftCRs will not be brought to SA #100 in a CR but they will result in another CR to SA5 in Aug.23

MCC: wrong Tdoc number on cover

Intel: has a late removal already agreed with Nokia

SA5 chair: ok, we will revise

**Decision:** The document was **revised to S5-234827**.

**S5-234827 Rel-18 Input to draft CR TS 28.105 AI/ML inference performance evaluation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234596)

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

**S5-234132 Rel-18 CR TS 28.105 Add use case and requirement for AIML performance evaluation in inference phase**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0028 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

merged into S5-234596

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

**S5-233866 Rel-18 Input to draft CR TS 28.105 AI/ML inference performance indicators selection**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234597**.

**S5-234597 Rel-18 Input to draft CR TS 28.105 AI/ML inference performance indicators selection**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233866)

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

**S5-233867 Rel-18 Input to draft CR TS 28.105 AI/ML training performance management**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234598**.

**S5-234598 Rel-18 Input to draft CR TS 28.105 AI/ML training performance management**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233867)

**Discussion:**

Intel: has a late proposal to remove something which is agreed with Nokia

**Decision:** The document was **revised to S5-234828**.

**S5-234828 Rel-18 Input to draft CR TS 28.105 AI/ML training performance management**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234598)

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

**S5-233870 Rel-18 Input to draft CR TS 28.105 solution for ML abstract behavior**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

moved from AI 6.4.3.2 to AI 6.4.3.1

Nokia: will come back on this next meeting

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

**S5-233859 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Capabilities of ML Entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-233878**.

**S5-233878 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for update of ML Entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233859)

**Discussion:**

Huawei: linked with S5-234131

NEC: change "should" to "shall"

**Decision:** The document was **revised to S5-234649**.

**S5-234649 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for update of ML Entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei*

(Replaces S5-233878)

**Discussion:**

wrong Tdoc number on draftCR;

includes also aspects of S5-234131

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

**S5-234131 Rel-18 CR TS 28.105 Add use case and requirement for AIML update control**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0027 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

merged into S5-234649

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

**S5-234130 Rel-18 CR TS 28.105 Add use case and requirement for ML entities updating initiated by producer**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0026 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

Intel: does not see a need for this CR

SA5 chair: may be merged with either S5-233940 or S5-234050

conclusion: merged into S5-234650

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

**S5-234133 Rel-18 CR TS 28.105 Add use case and requirements for ML entity configuration initiated by producer**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0029 Cat: B (Rel-18)  
  
 Source: Huawei*

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

**S5-233860 Rel18 Input to draft CR TS28.105 Use case and requirements for sharing information for Orchestrating AI/ML Inference**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: will replace "knowledge"

**Decision:** The document was **revised to S5-234652**.

**S5-234652 Rel18 Input to draft CR TS28.105 Use case and requirements for sharing information for Orchestrating AI/ML Inference**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233860)

**Discussion:**

Huawei: objects

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

**S5-233861 Rel18 Input to draft CR TS28.105 Use case and requirements for Orchestrating AI/ML Inference**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233862 Rel-18 Input to draft CR TS 28.105 Use case and requirements for ML Testing**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Intel: there are 3 related Tdocs which should be merged (finally only merged with S5-234053)

DT: "runtime context" unclear

**Decision:** The document was **revised to S5-234653**.

**S5-234653 Rel-18 Input to draft CR TS 28.105 Use case and requirements for ML Testing**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Intel, NEC*

(Replaces S5-233862)

**Discussion:**

wrong Tdoc number on draftCR;

includes aspects of S5-234053 and S5-233868

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

**S5-234053 Input to DraftCR 28.105 Add UC and requirements for ML entity testing**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Discussion:**

merged into S5-234653

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

**S5-233868 Rel-18 Input to draft CR TS 28.105 solution for ML Testing**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

moved from AI 6.4.3.2 to AI 6.4.3.1

Intel: merge with S5-234054

Nokia: also with S5-234357

Nokia: modal verbes should be properly used when merging CRs

conclusion: merged into S5-234822

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

**S5-234054 Input to DraftCR 28.105 Add NRMs for ML entity testing**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Discussion:**

Nokia: not yet ready to discuss policies as we have not yet agreed on baselines; easier to take S5-233868 as baseline and to merge S5-234054 into it

**Decision:** The document was **revised to S5-234822**.

**S5-234822 Input to DraftCR 28.105 Add NRMs for ML entity testing**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC, Nokia, CATT*

(Replaces S5-234054)

**Discussion:**

includes also aspects of S5-233868 and S5-234357

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

**S5-234357 pCR draft TS28.105 Add NRMs for AI-ML model testing**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: CATT*

**Discussion:**

conclusion: merged into S5-234822

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

**S5-234358 pCR draft TS28.105 Add service componets for AI-ML model testing**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: CATT*

**Discussion:**

Huawei: too early to define this

Nokia: 3GPP should be removed from references

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

**S5-233858 Rel-18 Input to draft CR TS 28.105 Use case and requirements for joint testing of multiple ml entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: should be merged with S5-234363

**Decision:** The document was **revised to S5-234654**.

**S5-234654 Rel-18 Input to draft CR TS 28.105 Use case and requirements for joint testing of multiple ml entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, CATT*

(Replaces S5-233858)

**Discussion:**

wrong Tdoc number on draftCR;

includes also aspects of S5-234363

**Decision:** The document was **revised to S5-234829**.

**S5-234829 Rel-18 Input to draft CR TS 28.105 Use case and requirements for joint testing of multiple ml entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, CATT*

(Replaces S5-234654)

**Discussion:**

SA5 chair: no colours and rev marks on cover page please

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

**S5-234363 pCR draft TS28.105 Add usecase for ML entities joint testing**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: CATT*

**Discussion:**

merged into S5-234654

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

**S5-233864 Rel-18 Input to draft CR TS 28.105 solution for ML inference emulation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: we can come back to this in the future

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

**S5-233865 Rel-18 CR TS 28.105 Use case and requirements for ML Inference emulation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: emulation was out-of-scope of this WID

Huawei: too early (digital twin not yet defined)

Ericsson: as SA5 is new in AIML; starting with basic things would be better before we got to details may be better than making things optional

**Decision:** The document was **revised to S5-234655**.

**S5-234655 Rel-18 draft CR TS 28.105 Use case and requirements for ML Inference emulation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233865)

**Discussion:**

Samsung: objects

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

**S5-233916 Discussion on ML Entity modelling**

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

**Decision:** The document was **revised to S5-234656**.

**S5-234656 Discussion on ML Entity modelling**

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

(Replaces S5-233916)

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

**S5-233928 Rel-18 CR TS 28.105 Modelling ML Entity**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0023 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234657**.

**S5-234657 Rel-18 CR TS 28.105 Modelling ML Entity**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0023 rev 1 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233928)

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

**S5-233938 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for ML Entity modularity**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

conclusion: merged in S5-234658

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

**S5-234051 Input to DraftCR 28.105 Add UC and requirements for ML entity joint training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234658**.

**S5-234658 Input to DraftCR 28.105 Add UC and requirements for ML entity joint training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC, Nokia, Deutsche Telekom, CATT*

(Replaces S5-234051)

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

**S5-234052 Input to DraftCR 28.105 Add NRMs for ML entity joint training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

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

**S5-233939 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for ML entity validation performance reporting**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

Nokia, Intel: was merged into S5-234820

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

**S5-234048 Input to DraftCR 28.105 Add UC and requirements for ML validation**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234820**.

**S5-234820 Input to DraftCR 28.105 Add UC and requirements for ML validation**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

(Replaces S5-234048)

**Discussion:**

includes also aspects of S5-233939

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

**S5-234049 Input to DraftCR 28.105 Enhance the NRMs to support ML validation**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234821**.

**S5-234821 Input to DraftCR 28.105 Enhance the NRMs to support ML validation**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC, Nokia*

(Replaces S5-234049)

**Discussion:**

Intel: only Nokia was added in source

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

**S5-233937 Rel-18 Input to draft CR TS 28.105 Use case and requirements for Efficient ML entity re-training**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-233940 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for producer-initiated ML entity re-training**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: change "update" to "configure"

Intel: merge with S5-234050

conclusion: merged into S5-234650

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

**S5-234050 Input to DraftCR 28.105 Enhance the ML training to include re-training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234650**.

**S5-234650 Input to DraftCR 28.105 Enhance the ML training to include re-training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC, Nokia, Huawei*

(Replaces S5-234050)

**Discussion:**

includes aspects of S5-233940 and S5-234130

Intel: also CATT supports the Tdoc

**Decision:** The document was **revised to S5-234833**.

**S5-234833 Input to DraftCR 28.105 Enhance the ML training to include re-training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC, Nokia, Huawei, CATT*

(Replaces S5-234650)

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

**S5-233941 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Capabilities of ML Entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234807**.

**S5-234807 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Capabilities of ML Entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233941)

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

**S5-233942 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Context of ML Entities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-233949 Rel18 Input To DraftCR\_28105 Measurement data correlation analytics for ML training**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Intel: objects

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

**S5-233950 Rel18 Input To DraftCR\_28105 Training data effectiveness reporting and analytics**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234799**.

**S5-234799 Rel18 Input To DraftCR\_28105 Training data effectiveness reporting and analytics**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233950)

**Discussion:**

Huawei: objects

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

**S5-233948 Rel18 Input To DraftCR\_28105 Event data for ML training**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: objects

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

**S5-233951 Rel18 Input To DraftCR\_28105 ML Inference activation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-233953 Rel18 Input To DraftCR\_28105 ML Inference Partial activation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson, Huawei: objects

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

**S5-233954 Rel18 Input To DraftCR\_28105 ML Inference policy-based activation**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234046 Input to DraftCR 28.105 Add terms related to ML training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234819**.

**S5-234819 Input to DraftCR 28.105 Add terms related to ML training**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

(Replaces S5-234046)

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

**S5-234047 Input to DraftCR 28.105 Add AI-ML workflow**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

**Decision:** The document was **revised to S5-234659**.

**S5-234659 Input to DraftCR 28.105 Add AI-ML workflow**

*Type: other For: Agreement  
 28.105 v..  
 Source: Intel, NEC*

(Replaces S5-234047)

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

**S5-234343 Input to Draft CR TS 28.105 add AI/ML management capabilities description**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: NEC, Intel*

**Discussion:**

Huawei: objects

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

**S5-234350 Input to Draft CR TS 28.105 Correction to the Scope**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: NEC, Intel*

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

**S5-234060 Rel-17 CR TS28.105 ML batchTraining**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0025 Cat: C (Rel-17)  
  
 Source: Nokia Germany*

**Discussion:**

MCC: why is a REL-17 CR is submitted under REL-18 WI AIML\_MGT?

multiple versions of the Tdoc exist

Ericsson: objects to all versions

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

**S5-234349 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML trustworthiness indicators**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234354 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML data trustworthiness**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234356 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML training trustworthiness**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234360 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML trustworthiness assessment**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234362 Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML inference trustworthiness**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234366 Rel-18 Input to Draft CR TS 28.105 Solution for AI/ML training data trustworthiness and AI/ML training trustworthiness**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

**S5-234037 Rel-17 CR TS 28.105 Grammatical Corrections**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0024 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC: why is a REL-17 CR is submitted under REL-18 WI AIML\_MGT?

multiple versions of the Tdoc exist

**Decision:** The document was **revised to S5-234837**.

**S5-234837 Rel-17 CR TS 28.105 Grammatical Corrections**

*Type: CR For: Agreement  
 28.105 v17.3.0 CR-0024 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234037)

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

**S5-233947 Rel18 Input To DraftCR\_28105 Coordination between the ML capabilities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, TELUS*

**Discussion:**

Huawei: objected

**Decision:** The document was **revised to S5-234798**.

**S5-234798 Rel18 Input To DraftCR\_28105 Coordination between the ML capabilities**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, TELUS*

(Replaces S5-233947)

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

**S5-233863 Rel-18 Input to draft CR TS 28.105 Use case and requirements for ML knowledge-based transfer Learning**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei, Ericsson: objects

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

**S5-234847 Draft CR AIML\_MGMT – TS 28.105; Enhancements for AI-ML management**

*Type: draftCR For: Approval  
 28.105 v..  
 Source: Intel*

**Discussion:**

last approved draft CR: -

inputs: S5-234827, S5-234597, S5-234828, S5-234649, S5-234653, S5-234822, S5-234829, S5-234657, S5- 234658, S5-234820, S5-234821, S5-234833, S5-234807, S5-234819, S5-234659, S5-23435

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

##### 6.4.3.2 AIML\_MGMT\_WoP#2

**S5-233952 Rel18 Input To DraftCR\_28105 ML Inference history**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

moved from AI 6.4.3.1 to AI 6.4.3.2

Ericsson: objects

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

**S5-233869 Rel-18 Input to draft CR TS 28.105 solution for ML inference history**

*Type: draftCR For: Approval  
 28.105 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: objects

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

#### 6.4.4 Intent driven Management Service for mobile network phase 2

##### 6.4.4.1 IDMS\_MN\_ph2\_WoP#1

**S5-233910 Rel-18 CR TS 28.312 Clarify how generic provisioning MnS can be used for intent lifecycle management**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0034 Cat: B (Rel-18)  
  
 Source: Huawei,Nokia Deutsche Telekom*

**Decision:** The document was **revised to S5-234660**.

**S5-234660 Rel-18 CR TS 28.312 Clarify how generic provisioning MnS can be used for intent lifecycle management**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0034 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei,Nokia Deutsche Telekom*

(Replaces S5-233910)

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

**S5-233911 Rel-18 CR TS 28.312 Add missing yaml document examples for scenario specific intent instance**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0035 Cat: B (Rel-18)  
  
 Source: Huawei,Nokia,Deutsche Telekom*

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

##### 6.4.4.2 IDMS\_MN\_ph2\_WoP#2

**S5-233912 Rel-18 CR TS 28.312 Add use case and requirements for intent driven approach for RAN energy saving**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0036 Cat: B (Rel-18)  
  
 Source: Huawei,Deutsche Telekom*

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

**S5-233913 Add use case and requirements for intent driven approach for radio network capacity optimization**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0037 Cat: B (Rel-18)  
  
 Source: Huawei,Deutsche Telekom*

**Decision:** The document was **revised to S5-234661**.

**S5-234661 Add use case and requirements for intent driven approach for radio network capacity optimization**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0037 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei,Deutsche Telekom*

(Replaces S5-233913)

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

**S5-233946 Add the use cases for Intent containing an expectation for delivering 5GC network**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0040 Cat: B (Rel-18)  
  
 Source: AsiaInfo*

**Discussion:**

merged with S5-234118

Samsung: should merge S5-233987 as well into S5-234662

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

**S5-234118 Adding new UC for 5GC subnetwork delivery**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0055 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234662**.

**S5-234662 Adding new UC for 5GC subnetwork delivery**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0055 rev 1 Cat: B (Rel-18)  
  
 Source: AsiaInfo, Huawei*

(Replaces S5-234118)

**Discussion:**

includes also aspects of S5-233946, S5-233956, S5-234116, S5-234117

**Decision:** The document was **revised to S5-234835**.

**S5-234835 Adding new UC for 5GC subnetwork delivery**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0055 rev 2 Cat: B (Rel-18)  
  
 Source: AsiaInfo, Huawei*

(Replaces S5-234662)

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

**S5-234116 Adding new UC for 5GC NF delivery**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0053 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

Samsung: should be merged with S5-233956 and S5-233987

Huawei: prefers to keep them separate, are for different use cases

Nokia: should merge S5-234116, S5-234118, S5-233956 and S5-233987

merged into S5-234662

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

**S5-233956 Add the use cases for intent containing an expectation on 5GC network performance to be assured**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0041 Cat: B (Rel-18)  
  
 Source: AsiaInfo*

**Discussion:**

merged into S5-234662

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

**S5-233987 Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0042 Cat: B (Rel-18)  
  
 Source: AsiaInfo*

**Discussion:**

Nokia: InstanceCapacityContext to be revised

**Decision:** The document was **revised to S5-234666**.

**S5-234666 Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0042 rev 1 Cat: B (Rel-18)  
  
 Source: AsiaInfo*

(Replaces S5-233987)

**Discussion:**

SA5 chair: no d1, no rev marks, specs affected missing

**Decision:** The document was **revised to S5-234834**.

**S5-234834 Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0042 rev 2 Cat: B (Rel-18)  
  
 Source: AsiaInfo, Huawei*

(Replaces S5-234666)

**Discussion:**

Not pursued due to the omission of the stage 3 equivalent.

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

**S5-234117 Rel-18 CR 28.312 adding new UC for 5GC performace assurance**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0054 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

MCC: wrong WI code on CR cover (IDMS on CR cover which is not a valid WI code; IDMS\_MN was a REL-17 WI)

Ericsson: could be merged with S5-234116, reference to slicing does not make sense

merged into S5-234662

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

##### 6.4.4.3 IDMS\_MN\_ph2\_WoP#3

**S5-233915 Add general concept and requirements for intent report**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0039 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-234664**.

**S5-234664 Add general concept and requirements for intent report**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0039 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233915)

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

**S5-234249 Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0067 Cat: B (Rel-18)  
  
 Source: ZTE Corporation*

**Abstract:**

Add description on monitoring the intent fulfilment information, MnS consumer can request the intent fulfilment information periodically or event-triggered.

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

**Decision:** The document was **revised to S5-234665**.

**S5-234665 Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0067 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S5-234249)

**Decision:** The document was **revised to S5-234832**.

**S5-234832 Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0067 rev 2 Cat: B (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S5-234665)

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

**S5-233988 Add new capabilities for intent driven management for Intent fulfilment feasibility checks**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0043 Cat: B (Rel-18)  
  
 Source: AsiaInfo*

**Discussion:**

Huawei: CR is not based on latest spec versi

DT: rewording of requirement needed

**Decision:** The document was **revised to S5-234667**.

**S5-234667 Add new capabilities for intent driven management for Intent fulfilment feasibility checks**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0043 rev 1 Cat: B (Rel-18)  
  
 Source: AsiaInfo*

(Replaces S5-233988)

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

**S5-233871 Rel18 CR 28312 Use case and Requirements Intent-driven Closed Loop control**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0027 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

CMCC: objects to this contribution as in contradiction with intent driven mthodology

**Decision:** The document was **revised to S5-234668**.

**S5-234668 Rel18 CR 28312 Use case and Requirements Intent-driven Closed Loop control**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0027 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

(Replaces S5-233871)

**Discussion:**

Ericsson: objects

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

**S5-234119 Update description related to intent driven closed loop**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0056 Cat: B (Rel-18)  
  
 Source: Huawei*

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

**S5-234669 Update description related to intent driven closed loop**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0056 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

was originally planned as revision of S5-234119

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

**S5-233876 Rel18 CR 28312 Use case and Requirements on Intent conflicts**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0032 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

Ericsson: objects to this CR, consumer needs to have more control

conclusion: merged into S5-234670

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

**S5-234163 Rel-18 CR TS 28.312 Add general concept and requirements for intent conflict**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0060 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234670**.

**S5-234670 Rel-18 CR TS 28.312 Add general concept and requirements for intent conflict**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0060 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell, Huawei*

(Replaces S5-234163)

**Discussion:**

wrong CR number on CR cover;

includes aspects of S5-233876

Ericsson: objects

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

**S5-233877 Rel-18 CR TS 28.312 information model change to support intent priorities**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0033 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell, DOCOMO*

**Discussion:**

moved from AI 6.3.6 to AI 6.4.4.3

**Decision:** The document was **revised to S5-234671**.

**S5-234671 Rel-18 CR TS 28.312 information model change to support intent priorities**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0033 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell, DOCOMO*

(Replaces S5-233877)

**Discussion:**

Ericsson: objects

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

**S5-234085 Rel-18 CR TS 28.312 add procedure of intent conflict resolution based on intent preemption**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0050 Cat: B (Rel-18)  
  
 Source: NTT DOCOMO*

**Discussion:**

moved from AI 6.3.6 to AI 6.4.4.3

Samsung: objects

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

**S5-234672 Rel-18 CR TS 28.312 add procedure of intent conflict resolution based on intent preemption**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0050 rev 1 Cat: B (Rel-18)  
  
 Source: NTT DOCOMO*

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

**S5-234087 Rel-18 CR TS 28.312 information model change to support intent preemption attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0051 Cat: B (Rel-18)  
  
 Source: NTT DOCOMO*

**Discussion:**

moved from AI 6.3.6 to AI 6.4.4.3

Samsung: objects

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

**S5-234673 Rel-18 CR TS 28.312 information model change to support intent preemption attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0051 rev 1 Cat: B (Rel-18)  
  
 Source: NTT DOCOMO*

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

**S5-234115 Add concept of intent validation**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0052 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234674**.

**S5-234674 Remove concept of intent validation**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0052 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234115)

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

**S5-233874 Rel18\_CR\_28312 Use case and Requirements on Intent-driven SON orchestration**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0030 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3;

Ericsson: does some SON functionality even more powerful than SON; this not the right way to do it; we do not agree with this functionality

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

**S5-233875 Rel18 CR 28312 Use case and Requirements on expectation for network optimization**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0031 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

Huawei: was not studied in the TR?

Nokia: is a compromise with Ericsson

Ericsson: not really

Huawei: suggests to merge with S5-233871

Nokia: would not be a good idea

Nokia: when do we use draftCR approach?

SA5 VC (Huawei): rapporteur could decide this

Nokia: would be better to do it consistently over the WIs we have; publishing half of a feature is not useful

**Decision:** The document was **revised to S5-234675**.

**S5-234675 Rel18 CR 28312 Use case and Requirements on expectation for network optimization**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0031 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

(Replaces S5-233875)

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

**S5-233872 Rel18\_CR\_28312 Use case and Requirements on Testing Intent MnS Capabilities**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0028 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

**Decision:** The document was **revised to S5-234760**.

**S5-234760 Rel18\_CR\_28312 Use case and Requirements on Testing Intent MnS Capabilities**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0028 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

(Replaces S5-233872)

**Discussion:**

Ericsson: objects

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

**S5-233873 Rel18\_CR\_28312 Use case and Requirements on Mapping Intents to ML capabilities**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0029 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

**Decision:** The document was **revised to S5-234761**.

**S5-234761 Rel18\_CR\_28312 Use case and Requirements on Mapping Intents to ML capabilities**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0029 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

(Replaces S5-233873)

**Discussion:**

Ericson: objects

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

**S5-233914 Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0038 Cat: B (Rel-18)  
  
 Source: Huawei,Deutsche Telekom*

**Decision:** The document was **revised to S5-234715**.

**S5-234715 Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0038 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-233914)

**Discussion:**

Huawei: need to remove 3 words

**Decision:** The document was **revised to S5-234836**.

**S5-234836 Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0038 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-234715)

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

**S5-234024 Rel18 CR 28312 Use case and Requirements exposing Intent-Logic**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0048 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shangai Bell*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

multiple versions of the Tdoc exist

Ericsson: objects to all versions

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

**S5-234157 Clarify service support intent expectation**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0059 Cat: C (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

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

**S5-234154 Fixing documentation and allowed value bug in contextValueRange attribute**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0057 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Abstract:**

In the "Documentation and Allowed Values" information of the contextValueRange attribute, the contextCondition was incorrectly written as targetCondition and needs to be corrected.

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

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

**S5-234165 Rel-17 CR 28.312 Add ValueRange type and replace the Real type**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0061 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

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

**S5-234172 Rel-17 CR 28.312 Add IS\_ALL\_OF to allowedValues in targetCondition and contextCondition attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0062 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Abstract:**

Add a new Value IS\_ALL\_OF in the allowedValues of the targetCondition and contextCondition attributes, indicating that all elements in the List can be selected.

**Discussion:**

moved from AI 6.4.4.1 to AI 6.4.4.3

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

**S5-234173 Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes**

*Type: CR For: Agreement  
 28.312 v17.3.1 CR-0063 Cat: A (Rel-17)  
  
 Source: China Mobile Com. Corporation*

**Abstract:**

Provide an intent interaction method to express Mns consumers' customized requirements for intent reports. By using the existing expectation targets mechanism, to specify under which conditions the MnS producer is expected to create and distribute the cor

**Discussion:**

MCC: IDMS\_MN was a REL-17 WI; Tdoc is submitted to REL-18 WI IDMS\_MN\_ph2; unclear where the cat.F CR is

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

##### 6.4.4.4 IDMS\_MN\_ph2\_WoP#4

##### 6.4.4.5 IDMS\_MN\_ph2\_WoP#5

### 6.5 Management Architecture and Mechanisms

#### 6.5.1 Service based management architecture

##### 6.5.1.1 eSBMA\_WoP#1

##### 6.5.1.2 eSBMA\_WoP#2

##### 6.5.1.3 eSBMA\_WoP3#

##### 6.5.1.4 eSBMA\_WoP#4

##### 6.5.1.5 eSBMA\_WoP#5

##### 6.5.1.6 eSBMA\_WoP#6

##### 6.5.1.7 eSBMA\_WoP#7

##### 6.5.1.8 Draft TS email approval

#### 6.5.2 Network slicing provisioning rules

##### 6.5.2.1 NSRULE\_WoP#1

**S5-234158 Discussion paper on isolation and sharing**

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

**Discussion:**

Nokia: does not understand the Tdoc

**Decision:** The document was **revised to S5-234698**.

**S5-234698 Discussion paper on isolation and sharing**

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

(Replaces S5-234158)

**Decision:** The document was **revised to S5-234817**.

**S5-234817 Discussion paper on isolation and sharing**

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

(Replaces S5-234698)

**Discussion:**

Nokia: objects

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

##### 6.5.2.2 NSRULE\_WoP#2

**S5-234159 Rel-18 CR 28.541 Add network slice selection and sharing information**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0924 Cat: B (Rel-18)  
  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Discussion:**

Nokia: objects

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

**S5-234699 Rel-18 CR 28.541 Add network slice selection and sharing information**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0924 rev 1 Cat: B (Rel-18)  
  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

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

**S5-234290 Add NRM for network slice isolation**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0858 rev 2 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-232114)

**Decision:** The document was **revised to S5-234700**.

**S5-234700 Add NRM for network slice isolation**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0858 rev 3 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234290)

**Discussion:**

Samsung: objects

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

#### 6.5.3 Network slice provisioning enhancement

##### 6.5.3.1 eNETSLICE\_PRO\_WoP#1

**S5-234261 Rel-18 CR TS 28.541 Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0930 Cat: B (Rel-18)  
  
 Source: Samsung*

**Discussion:**

MCC: wrong CR number and rev number on CR cover

Nokia: was a Nokia proposal shared before the meeting with Samsung; see our input in S5-233897

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

**S5-233897 Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0800 rev 4 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S5-232102)

**Decision:** The document was **revised to S5-234586**.

**S5-234586 Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0800 rev 5 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telefonica*

(Replaces S5-233897)

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

**S5-233896 Add stage 3 for data type AvailabilityStatus**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0214 rev 3 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-232105)

**Discussion:**

Samsung: how can we agree stage 3 CR without agreeing stage 2?

Nokia: stage 2 is in S5-233897

SA5 chair: S5-233896 can be agreed provided that S5-234586 can be agreed, we will see on Friday

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

**S5-233898 Update Procedure of Network Slice Instance Allocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0173 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Samsung: figure not in alignment with endorsement in Athens

Nokia: we did not endorse the figure itself (S5233155)

**Decision:** The document was **revised to S5-234587**.

**S5-234587 Update Procedure of Network Slice Instance Allocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0173 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telefonica*

(Replaces S5-233898)

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

**S5-234078 Rel-18 CR TS28.531 Update the network slice (subnet) instance allocation procedures to support async mode**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0187 Cat: B (Rel-18)  
  
 Source: Huawei, Telefonica, Deutsche Telekom,Samsung*

**Abstract:**

moved from AI 6.7.3.1 to AI 6.5.3.1

**Discussion:**

MCC: CR is submitted to an AI for REL-18 SI FS\_NETSLICE\_IDMS but it uses the WI code of REL-18 WI eNETSLICE\_PRO

conclusion: merged into S5-234587

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

**S5-233899 Update Procedure of Network Slice Instance Deallocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0174 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Microsoft: "visibility of CRUD operation" requires correction

Telefonica: 2 steps for option A and 6 steps for option B; step 5 of option B needs to be captured also in option A

**Decision:** The document was **revised to S5-234588**.

**S5-234588 Update Procedure of Network Slice Instance Deallocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0174 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233899)

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

**S5-233900 Update Procedure of Network Slice Instance Modification to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0175 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: option A is missing

Nokia: agrees

**Decision:** The document was **revised to S5-234589**.

**S5-234589 Update Procedure of Network Slice Instance Modification to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0175 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233900)

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

**S5-233901 Update Procedure of Network Slice Subnet Instance Allocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0176 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234590**.

**S5-234590 Update Procedure of Network Slice Subnet Instance Allocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0176 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, Telefonica, Ericsson*

(Replaces S5-233901)

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

**S5-233902 Update Procedure of network slice subnet instance deallocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0177 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234591**.

**S5-234591 Update Procedure of network slice subnet instance deallocation to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0177 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233902)

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

**S5-233903 Update Procedure of Network Slice Subnet Instance Modification to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0178 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234592**.

**S5-234592 Update Procedure of Network Slice Subnet Instance Modification to support asynchronous operations**

*Type: CR For: Agreement  
 28.531 v18.1.0 CR-0178 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233903)

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

##### 6.5.3.2 eNETSLICE\_PRO\_WoP#2

#### 6.5.4 Management of Trace/MDT phase 2

##### 6.5.4.1 5GMDT\_Ph2\_WoP#1

##### 6.5.4.2 5GMDT\_Ph2\_WoP#2

##### 6.5.4.3 5GMDT\_Ph2\_WoP#3

##### 6.5.4.4 5GMDT\_Ph2\_WoP#4

##### 6.5.4.5 5GMDT\_Ph2\_WoP#5

#### 6.5.5 5G performance measurements and KPIs phase 3

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

**S5-233930 Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0410 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234136**.

**S5-234136 Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0410 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233930)

**Discussion:**

MCC: wrong rev on CR cover

**Decision:** The document was **revised to S5-234138**.

**S5-234138 Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0410 rev 2 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234136)

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

**S5-233931 Rel-18 CR TS 28.552 Addition of “Distribution of Scheduled PUSCH/PDSCH PRBs based on MIMO Layers Coverage Map” measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0411 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC: wrong spec version on CR cover

**Decision:** The document was **revised to S5-234128**.

**S5-234128 Rel-18 CR TS 28.552 Addition of “Distribution of Scheduled PUSCH/PDSCH PRBs based on MIMO Layers Coverage Map” measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0411 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233931)

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

**S5-233932 Rel-18 CR TS 28.552 Add Reference for “DL PDCP buffered throughput per UE per DRB”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0412 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: had some comments

**Decision:** The document was **revised to S5-234701**.

**S5-234701 Rel-18 CR TS 28.552 Add Reference for “DL PDCP buffered throughput per UE per DRB”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0412 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233932)

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

**S5-234088 Rel-18 CR TS 28.552 Add MA PDU session creation measurements for ATSSS**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0414 Cat: B (Rel-18)  
  
 Source: China Telecomunication Corp.,Intel*

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

**S5-234086 Rel-18 CR TS 28.552 Add MA PDU session creation measurements for ATSSS**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0413 Cat: B (Rel-18)  
  
 Source: China Telecomunication Corp.,Intel*

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

**S5-234416 Rel-17 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity**

*Type: CR For: Agreement  
 28.552 v17.10.0 CR-0436 Cat: B (Rel-17)  
  
 Source: Samsung Electronics Czech*

**Discussion:**

MCC: REL-17 CR for REL-18 WI?

Nokia: cat.B CR for REL-17?

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

**S5-234417 Rel-18 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0437 Cat: A (Rel-18)  
  
 Source: Samsung Electronics Czech*

**Discussion:**

Nokia: 5.1.1.10y does not yet exist

MCC: cat. to be updated

**Decision:** The document was **revised to S5-234702**.

**S5-234702 Rel-18 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0437 rev 1 Cat: B (Rel-18)  
  
 Source: Samsung Electronics Czech*

(Replaces S5-234417)

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

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

**S5-234089 Rel-18 CR TS 28.552 Add Cross Link Interference related performance measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0415 Cat: B (Rel-18)  
  
 Source: China Telecomunication Corp.*

**Decision:** The document was **revised to S5-234703**.

**S5-234703 Rel-18 CR TS 28.552 Add Cross Link Interference related performance measurement**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0415 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecomunication Corp.*

(Replaces S5-234089)

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

**S5-234425 New measurement “In-session activity time per RAT”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0438 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

Ericsson: 2 problems: clause f: we have no class; defining new metrics, why not using existing metrics for NR and LTE?

Nokia: why do we need new measurements?; who would produce these measurements?

Samsung: similar concerns

**Decision:** The document was **revised to S5-234704**.

**S5-234704 New measurement “In-session activity time per RAT”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0438 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234425)

**Discussion:**

Nokia: objects

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

**S5-234426 New KPI “NR and E-UTRAN in-session retention rate”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0123 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

same comments as for S5-234425

**Decision:** The document was **revised to S5-234705**.

**S5-234705 New KPI “NR and E-UTRAN in-session retention rate”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0123 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234426)

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234427 New measurement “Successful RRC connection establishments per RAT”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0439 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

same comments as for S5-234425

**Decision:** The document was **revised to S5-234706**.

**S5-234706 New measurement “Successful RRC connection establishments per RAT”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0439 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234427)

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234428 New KPI “RRC Retainability”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0124 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

Ericsson: move to utilization section

Nokia: S5-234429 is introducing measurements and S5-234428 is having KPIs based on these measurements

**Decision:** The document was **revised to S5-234707**.

**S5-234707 New KPI “RRC Retainability”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0124 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234428)

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234429 New measurement “Number of RRC release”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0440 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234430 New KPI “NR and EUTRAN RRC retention rate”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0125 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

Nokia: same comments as for S5-234425

**Decision:** The document was **revised to S5-234708**.

**S5-234708 New KPI “NR and EUTRAN RRC retention rate”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0125 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234430)

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234432 New measurement “DL PDCP SDU Data Volume per RAT”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0441 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

Nokia: same comments as for S5-234425

**Decision:** The document was **revised to S5-234709**.

**S5-234709 New measurement “DL PDCP SDU Data Volume per RAT”**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0441 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234432)

**Discussion:**

Nokia, Ericsson: objects

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

**S5-234433 New KPI “NR and EUTRAN data volume retention rate”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0126 Cat: B (Rel-18)  
  
 Source: Apple*

**Discussion:**

Nokia: same comments as for S5-234425

**Decision:** The document was **revised to S5-234710**.

**S5-234710 New KPI “NR and EUTRAN data volume retention rate”**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0126 rev 1 Cat: B (Rel-18)  
  
 Source: Apple*

(Replaces S5-234433)

**Discussion:**

Nokia, Ericsson: objects

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

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

**S5-233929 Rel-18 CR TS 28.550 Enhance the streaming format of PM**

*Type: CR For: Agreement  
 28.550 v18.1.0 CR-0078 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234711**.

**S5-234711 Rel-18 CR TS 28.550 Enhance the streaming format of PM**

*Type: CR For: Agreement  
 28.550 v18.1.0 CR-0078 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233929)

**Discussion:**

Huawei: objects

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

##### 6.5.5.4 PM\_KPI\_5G\_Ph3\_WoP#4

#### 6.5.6 Additional NRM features phase 2

##### 6.5.6.1 AdNRM\_ph2\_WoP#1

**S5-234074 Discussion paper on separate yaml file for different control NRM fragments in TS 28.623**

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

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

**S5-234075 Rel-18 CR TS 28.623 separate yaml file for different control NRM fragment**

*Type: CR For: Agreement  
 28.623 v18.2.1 CR-0251 Cat: F (Rel-18)  
  
 Source: Huawei*

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

##### 6.5.6.2 AdNRM\_ph2\_WoP#2

##### 6.5.6.3 AdNRM\_ph2\_WoP#3

**S5-234139 Rel-18 CR 28.541 Update NRM enhancements for NWDAFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0921 Cat: F (Rel-18)  
  
 Source: China Telecommunication*

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

##### 6.5.6.4 AdNRM\_ph2\_WoP#4

**S5-233958 Rel18 CR TS28.541 NRM enhancements for NRFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0894 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234735**.

**S5-234735 Rel18 CR TS28.541 NRM enhancements for NRFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0894 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233958)

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

**S5-233959 Rel18 CR TS28.541 NRM enhancements for CHFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0895 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234738**.

**S5-234738 Rel18 CR TS28.541 NRM enhancements for CHFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0895 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233959)

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

**S5-233960 Rel18 CR TS28.541 NRM enhancements for MFAFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0896 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234739**.

**S5-234739 Rel18 CR TS28.541 NRM enhancements for MFAFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0896 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233960)

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

**S5-233961 Rel18 CR TS28.541 NRM enhancements for DCCFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0897 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234740 Rel18 CR TS28.541 NRM enhancements for DCCFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0897 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

was originally a revision of S5-233961

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

**S5-233962 Rel18 CR TS28.541 NRM enhancements for class diagram**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0898 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233968 TS28.541 Rel18 Corrections to missing properties for a few attributes**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0904 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234741 TS28.541 Rel18 Corrections to missing properties for a few attributes**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0904 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

was originally planned as revision of S5-233968

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

**S5-233969 Rel18 CR TS28.541 Improve EP\_Transport model to clarify connection point info**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0905 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, TELUS, KDDI, Verizon*

**Discussion:**

SA5 VC (Huawei) RAN and CN needs to be ticked

**Decision:** The document was **revised to S5-234742**.

**S5-234742 Rel18 CR TS28.541 Improve EP\_Transport model to clarify connection point info**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0905 rev 1 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, TELUS, KDDI, Verizon, Telefonica, Huawei*

(Replaces S5-233969)

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

#### 6.5.7 Management Aspects related to NWDAF

##### 6.5.7.1 MANWDAF\_WoP#1

**S5-234141 Rel-18 CR 28.552 Add clause titles related to the performance measurements for NWDAF**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0418 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Discussion:**

Intel: we should not just add a title without contents

China Telecom: could have a draft CR

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

##### 6.5.7.2 MANWDAF\_WoP#2

**S5-234140 Rel-18 CR 28.541 Add NRM enhancements for NWDAFFunction**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0922 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Discussion:**

SA5 VC (Huawei): will be changed into draftCR

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

**S5-234678 Rel-18 draftCR 28.541 Add NRM enhancements for NWDAFFunction**

*Type: draftCR For: Approval  
 28.541 v18.3.1  
 Source: China Telecommunication*

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

**S5-234144 Rel-18 CR 28.552 Add use case of measurements related to the coordination between multiple NWDAFs**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0421 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

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

**S5-234145 Rel-18 CR 28.552 Add measurements related to the coordination between multiple NWDAFs**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0422 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Discussion:**

Ericsson: wants to check

**Decision:** The document was **revised to S5-234679**.

**S5-234679 Rel-18 CR 28.552 Add measurements related to the coordination between multiple NWDAFs**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0422 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

(Replaces S5-234145)

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

**S5-234283 Rel-18 CR 28 552 Add performance measurement related with number of notifications for NWDAF data collection**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0431 Cat: B (Rel-18)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-234680**.

**S5-234680 Rel-18 CR 28 552 Add performance measurement related with number of notifications for NWDAF data collection**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0431 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-234283)

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

**S5-234284 Rel-18 CR 28 552 Add performance measurement related with number of subscriptions for NWDAF data collection**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0432 Cat: B (Rel-18)  
  
 Source: China Mobile Com. Corporation*

**Decision:** The document was **revised to S5-234681**.

**S5-234681 Rel-18 CR 28 552 Add performance measurement related with number of subscriptions for NWDAF data collection**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0432 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile Com. Corporation*

(Replaces S5-234284)

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

**S5-234285 Rel-18 CR 28 552 Add use case of the performance measurement for NWDAF data collection**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0433 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234682**.

**S5-234682 Rel-18 CR 28 552 Add use case of the performance measurement for NWDAF data collection**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0433 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234285)

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

##### 6.5.7.3 MANWDAF\_WoP#3

**S5-234142 Add use case of time consumption of NWDAF providing analytcis service information**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0419 Cat: B (Rel-18)  
  
 Source: China Telecom*

**Discussion:**

Ericsson: there is a typo

**Decision:** The document was **revised to S5-234683**.

**S5-234683 Add use case of time consumption of NWDAF providing analytcis service information**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0419 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecom*

(Replaces S5-234142)

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

**S5-234143 Rel-18 CR 28.552 Add time consumption of NWDAF providing analytcis service information**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0420 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Decision:** The document was **revised to S5-234684**.

**S5-234684 Rel-18 CR 28.552 Add time consumption of NWDAF providing analytcis service information**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0420 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

(Replaces S5-234143)

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

**S5-234146 Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service provisioning**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0423 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Discussion:**

SA5 VC (Huawei): typo

**Decision:** The document was **revised to S5-234685**.

**S5-234685 Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service provisioning**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0423 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

(Replaces S5-234146)

**Discussion:**

conclusion: agreed unseen

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

**S5-234147 Rel-18 CR 28.552 Add measurements related to the NWDAF service provisioning**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0424 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Decision:** The document was **revised to S5-234686**.

**S5-234686 Rel-18 CR 28.552 Add measurements related to the NWDAF service provisioning**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0424 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

(Replaces S5-234147)

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

**S5-234148 Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service failure**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0425 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Discussion:**

Nokia: last paragraph: first line has a typo

**Decision:** The document was **revised to S5-234687**.

**S5-234687 Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service failure**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0425 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

(Replaces S5-234148)

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

**S5-234149 Rel-18 CR 28.552 Add measurements related to the NWDAF service failure**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0426 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

**Decision:** The document was **revised to S5-234688**.

**S5-234688 Rel-18 CR 28.552 Add measurements related to the NWDAF service failure**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0426 rev 1 Cat: B (Rel-18)  
  
 Source: China Telecommunication*

(Replaces S5-234149)

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

#### 6.5.8 Enhanced Edge Computing Management

##### 6.5.8.1 eECM\_WoP#1

**S5-233945 Correct the wrong and missing clauses of reference**

*Type: CR For: Agreement  
 28.538 v18.2.0 CR-0033 Cat: F (Rel-18)  
  
 Source: AsiaInfo*

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

##### 6.5.8.2 eECM\_WoP#2

##### 6.5.8.3 eECM\_WoP#3

#### 6.5.9 Management Aspect of 5GLAN

##### 6.5.9.1 5GLAN\_Mgt\_WoP#1

**S5-234233 TS28.541 Rel-18 NRM enhancements to support 5GLAN management**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0926 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234689**.

**S5-234689 TS28.541 Rel-18 NRM enhancements to support 5GLAN management**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0926 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234233)

**Discussion:**

Nokia: stage 3 is missing

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

##### 6.5.9.2 5GLAN\_Mgt\_WoP#2

**S5-234120 Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for SMF**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0416 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

MCC: wrong spec version on CR cover

**Decision:** The document was **revised to S5-234690**.

**S5-234690 Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for SMF**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0416 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234120)

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

**S5-234121 Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for UPF**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0417 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

MCC: wrong spec version on CR cover

**Decision:** The document was **revised to S5-234691**.

**S5-234691 Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for UPF**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0417 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234121)

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

**S5-234238 Rel-18 CR 28.552 Add a use case for 5GLAN measurements**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0427 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234692**.

**S5-234692 Rel-18 CR 28.552 Add a use case for 5GLAN measurements**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0427 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234238)

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

**S5-234239 Rel-18 CR 28.552 Update group-level N4 session measurements of SMF for 5GLAN**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0428 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234693**.

**S5-234693 Rel-18 CR 28.552 Update group-level N4 session measurements of SMF for 5GLAN**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0428 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234239)

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

**S5-234248 Rel-18 CR 28.552 Update N19 related measurements of UPF for 5GLAN**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0429 Cat: B (Rel-18)  
  
 Source: China Mobile*

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

**S5-234251 Rel-18 CR 28.552 Update QoS flow related measurements of UPF for 5GLAN**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0430 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234694**.

**S5-234694 Rel-18 CR 28.552 Update QoS flow related measurements of UPF for 5GLAN**

*Type: CR For: Agreement  
 28.552 v18.2.0 CR-0430 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234251)

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

**S5-234256 Rel-18 CR 28.554 Add a use case for 5G VN group measurements related KPIs**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0117 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234695**.

**S5-234695 Rel-18 CR 28.554 Add a use case for 5G VN group measurements related KPIs**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0117 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234256)

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

**S5-234260 Rel-18 CR 28.554 Add Accessibility KPIs for 5G VN group measurements**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0118 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Discussion:**

Ericsson: "KPI type is RATIO" is ok?

**Decision:** The document was **revised to S5-234696**.

**S5-234696 Rel-18 CR 28.554 Add Accessibility KPIs for 5G VN group measurements**

*Type: CR For: Agreement  
 28.554 v18.1.0 CR-0118 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234260)

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

#### 6.5.10 Management Aspects of NTN

##### 6.5.10.1 OAM\_NTN\_WoP#1

##### 6.5.10.2 OAM\_NTN\_WoP#2

##### 6.5.10.3 OAM\_NTN\_WoP#3

#### 6.5.11 Management of cloud-native Virtualized Network Functions

##### 6.5.11.1 MCVNF\_WoP#1

##### 6.5.11.2 MCVNF\_WoP#2

##### 6.5.11.3 MCVNF\_WoP#3

### 6.6 Support of New Services

#### 6.6.1 Access control for management service

##### 6.6.1.1 MSAC\_WoP#1

**S5-234241 Add new IOC to support granular access control**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0929 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

Samsung: supports the Tdoc but different term than "tenant" and a type of a customer should be introduced

Nokia: where would the "tenant type" be defined, can not be in a TR

conclusion: merged into S5-234716

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

**S5-234714 Add new IOC to support granular access control**

*Type: CR For: Agreement  
 28.541 v18.3.1 CR-0929 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

**Discussion:**

was originally revision of S5-234241

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

##### 6.6.1.2 MSAC\_WoP#2

##### 6.6.1.3 MSAC\_WoP#3

**S5-234381 InputToDraftCR Rel-18 28.533 on Access control for management service**

*Type: draftCR For: Approval  
 28.533 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: had a proposal for a new TS, Ericsson had concerns and so the temporary solution was to store the information in TS 28.533 until people are happy to store the information in a new TS

Nokia: could work on a draftCR for a new TS 28.abc

**Decision:** The document was **revised to S5-234716**.

**S5-234716 InputToDraftCR Rel-18 28.533 on Access control for management service**

*Type: draftCR For: Approval  
 28.533 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Telefonica, Deutsche Telekom, Huawei*

(Replaces S5-234381)

**Discussion:**

will cover aspects of S5-234241

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

**S5-234845 DraftCR 28.533 on Access control for management service**

*Type: draftCR For: Approval  
 28.533 v..  
 Source: Nokia*

**Discussion:**

last approved draftCR: S5-233137

inputs: S5-234716

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

##### 6.6.1.4 MSAC\_WoP#4

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

##### 6.6.2.1 EE5GPLUS\_Ph2\_WoP#1

**S5-234291 Living document on 3GPP work on energy efficiency**

*Type: discussion For: Presentation  
 Source: Huawei*

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

##### 6.6.2.2 EE5GPLUS\_Ph2\_WoP#2

#### 6.6.3 Management of non-public networks phase 2

##### 6.6.3.1 OAM\_NPN\_Ph2\_WoP#1

##### 6.6.3.2 OAM\_NPN\_Ph2\_WoP#2

**S5-234171 Add use case and requirements for management of NPN service customer**

*Type: CR For: Agreement  
 28.557 v17.1.0 CR-0003 Cat: B (Rel-18)  
  
 Source: Huawei*

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

##### 6.6.3.3 OAM\_NPN\_Ph2\_WoP#3

**S5-234170 Add use case and requirements for NPN fault management**

*Type: CR For: Agreement  
 28.557 v17.1.0 CR-0002 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234743**.

**S5-234743 Add use case and requirements for NPN fault management**

*Type: CR For: Agreement  
 28.557 v17.1.0 CR-0002 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234170)

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

##### 6.6.3.4 OAM\_NPN\_Ph2\_WoP#4

### 6.7 Intelligence and Automation

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

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

**S5-234391 pCR TR28.910 Add key issue of attribution to individual MnS**

*Type: pCR For: Approval  
 28.910 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

CMCC: requirements are not specified so rationale is not right

Nokia: has a discussion paper in S5-234413

Huawei: this is the last meeting for studies but pCR is raising a new key issue? there is no proposed solution

Nokia: we can identify key issues even if they are not resolved

CMCC: objects

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

**S5-234413 Discussion paper on the difference between MnS and management functionality**

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

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

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

**S5-234175 pCR TR 28.910 Add gap analysis and recommendation for key issue#5.1b RAN UE throughput optimization**

*Type: pCR For: Approval  
 28.910 v0.5.0  
 Source: China Mobile, Huawei, ZTE, AsiaInfo, China Unicom, CATT*

(Replaces S5-233409)

**Discussion:**

Ericsson: not sure how to continue with the study? there is not just one way to achieve a solution, so we cannot accept this

DT: we said already that MNS would not be enough for autonomous evaluation but it seems now we try again; so it can be part of a solution but not be a complete solution

Samsung: can also not agree to the proposal, esp. the conclusion text of 7.x

Ericsson: there is complete disagreement so it is not just about one key issue

ZTE: supports the Tdoc

**Decision:** The document was **revised to S5-234502**.

**S5-234502 pCR TR 28.910 Add gap analysis and recommendation for key issue#5.1b RAN UE throughput optimization**

*Type: pCR For: Approval  
 28.910 v0.5.0  
 Source: China Mobile, Huawei, ZTE, AsiaInfo, China Unicom, CATT*

(Replaces S5-234175)

**Discussion:**

Nokia, Ericsson: objects

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

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

**S5-234176 pCR TR 28.910 Add use cases and requirements for management of ANL**

*Type: pCR For: Approval  
 28.910 v0.5.0  
 Source: China Mobile, Huawei, Deutsche Telecom, AsiaInfo, CATT, China Unicom, ZTE*

(Replaces S5-233410)

**Discussion:**

SA5 chair: will be taken offline

Nokia, Ericsson: objects

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

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

**S5-234253 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*

(Replaces S5-233458)

**Discussion:**

MCC: based on wrong spec version

SA5 chair: will be taken offline

Nokia, Ericsson: objects

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

**S5-234254 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*

(Replaces S5-233459)

**Discussion:**

MCC: based on wrong spec version

SA5 chair: will be taken offline

Nokia, Ericsson, Samsung: objects

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

##### 6.7.1.5 Draft TR email approval

**S5-234732 TR 28.910 v0.6.0 on Study on enhancement of autonomous network levels**

*Type: draft TR For: Agreement  
 28.910 v0.6.0  
 Source: CMCC*

**Discussion:**

for email agreement

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

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

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

**S5-234255 pCR TR 28.909 Add potential solution for NRM fragment for autonomous network evaluation**

*Type: pCR For: Approval  
 28.909 v0.2.1  
 Source: Huawei, China Mobile,Deutsche Telekom*

**Discussion:**

Ericsson: too vague

**Decision:** The document was **revised to S5-234744**.

**S5-234744 pCR TR 28.909 Add potential solution for NRM fragment for autonomous network evaluation**

*Type: pCR For: Approval  
 28.909 v0.2.1  
 Source: Huawei, China Mobile,Deutsche Telekom*

(Replaces S5-234255)

**Discussion:**

Nokia, Ericsson: objects

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

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

**S5-234177 pCR TR 28.909 Add potential KEI for fault management**

*Type: pCR For: Approval  
 28.909 v0.2.1  
 Source: China Mobile, Huawei*

**Discussion:**

Nokia: what exactly is measured here?

**Decision:** The document was **revised to S5-234745**.

**S5-234745 pCR TR 28.909 Add potential KEI for fault management**

*Type: pCR For: Approval  
 28.909 v0.2.1  
 Source: China Mobile, Huawei*

(Replaces S5-234177)

**Discussion:**

Nokia, Ericsson: objects

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

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

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

##### 6.7.2.5 Draft TR email approval

**S5-234731 TR 28.909 v0.3.0 on Study on evaluation of autonomous network levels**

*Type: draft TR For: Agreement  
 28.909 v0.3.0  
 Source: CMCC*

**Discussion:**

for email agreement

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

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

##### 6.7.3.1 FS\_NETSLICE\_IDMS\_WoP#1

**S5-234161 pCR 28.836 Add benefits of intent driven management approach to network slicing**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Discussion:**

moved from AI 6.5.3.1 to AI 6.7.3.1

Samsung: appreciates the Tdoc but does not agree to any of the advantages

**Decision:** The document was **revised to S5-234523**.

**S5-234523 pCR 28.836 Add benefits of intent driven management approach to network slicing**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

(Replaces S5-234161)

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

##### 6.7.3.2 FS\_NETSLICE\_IDMS\_WoP#2

**S5-234076 pCR TR28.836 Add solution for intent expectation for network slice delivering and assurance**

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

(Replaces S5-233280)

**Discussion:**

MCC: pCR is based on wrong spec version

**Decision:** The document was **revised to S5-234736**.

**S5-234736 pCR TR28.836 Add solution for intent expectation for network slice delivering and assurance**

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

(Replaces S5-234076)

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

**S5-234160 pCR 28.836 Add alternatives and evaluation to 6.2.2**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

**Discussion:**

moved from AI 6.7.3.4 to AI 6.7.3.2

Samsung: what is the difference between alt1 and alt3?

**Decision:** The document was **revised to S5-234737**.

**S5-234737 pCR 28.836 Add alternatives and evaluation to 6.2.2**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

(Replaces S5-234160)

**Discussion:**

Nokia: objects

Ericsson: why objecting alternatives

Nokia: alternatives are not viable; there is no communication service in SA5

CMCC: objects as well

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

**S5-234153 Add Use case of Intent driven management to express expectation of network slice health assurance**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: ZTE Corporation*

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

**S5-234524 Add Use case of Intent driven management to express expectation of network slice health assurance**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: ZTE Corporation*

**Discussion:**

wasr originally a revision of S5-234153

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

##### 6.7.3.3 FS\_NETSLICE\_IDMS\_WoP#3

**S5-234155 Enhancement on 6.1 supporting solution to deliver a network slice subnet**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: ZTE Corporation*

**Discussion:**

Ericsson: does not agree with the Tdoc

**Decision:** The document was **revised to S5-234525**.

**S5-234525 Enhancement on 6.1 supporting solution to deliver a network slice subnet**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: ZTE Corporation*

(Replaces S5-234155)

**Decision:** The document was **revised to S5-234831**.

**S5-234831 Enhancement on 6.1 supporting solution to deliver a network slice subnet**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: ZTE Corporation*

(Replaces S5-234525)

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

**S5-234162 pCR 28.836 Clarify the roles in requirements clause 5.2**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

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

**S5-234164 pCR 28.836 Update table on classification in 4.2 and editorials in 4.3 and 4.4**

*Type: pCR For: Approval  
 28.836 v0.5.0  
 Source: L.M. Ericsson Limited, Deutsche Telekom*

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

##### 6.7.3.4 FS\_NETSLICE\_IDMS\_WoP#4

##### 6.7.3.5 FS\_NETSLICE\_IDMS\_WoP#5

**S5-234122 pCR 28.836 Add conclusion and recommendation for network slice service assurance**

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

**Discussion:**

Samsung: related to S5-234161

**Decision:** The document was **revised to S5-234526**.

**S5-234526 pCR 28.836 Add conclusion and recommendation for network slice service assurance**

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

(Replaces S5-234122)

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

##### 6.7.3.6 Draft TR email approval

**S5-234724 TR 28.836 v0.6.0 on Study on intent-driven management for network slicing**

*Type: draft TR For: Agreement  
 28.836 v0.6.0  
 Source: Ericsson*

**Discussion:**

Ericsson: plans to present TR 28.836 to SA #100;

conclusion: for email agreement

**Decision:** The document was **email agreement**.

**S5-234838 Presentation of TR 28.836 v1.0.0 for information**

*Type: TS or TR cover For: Approval  
 28.836 v1.0.0  
 Source: Ericsson*

**Discussion:**

SA5 chair: is for email approval; TR 28.836 is for information to SA #100

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

#### 6.7.4 Study on Fault Supervision Evolution

##### 6.7.4.1 FS\_FSEV\_WoP#1

##### 6.7.4.2 FS\_FSEV\_WoP#2

**S5-234292 pCR TR 28.830 Add description failure prediction enhancement**

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

**Discussion:**

Ericsson: proposed attribute is uncertain; list of standard values to be defined? (vendor specific?); need more precise definition of the changes

Nokia: potential failure type, is this not the normal alarm time?

Huawei: would like to distinguish violation, i.e. failure or error

SA5 chair: failure and error is the same?

Ericsson: failure when in normal service, error is different

**Decision:** The document was **revised to S5-234503**.

**S5-234503 pCR TR 28.830 Add description failure prediction enhancement**

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

(Replaces S5-234292)

**Discussion:**

Nokia: objects

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

**S5-234293 pCR TR 28.830 Add description performance error analysis**

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

**Discussion:**

Ericsson: proposal is vague; not sure which TS is finally targeted

**Decision:** The document was **revised to S5-234504**.

**S5-234504 pCR TR 28.830 Add description performance error analysis**

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

(Replaces S5-234293)

**Discussion:**

Ericsson: objects

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

**S5-234294 pCR TR 28.830 Add description root cause analysis enhancement**

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

**Discussion:**

Huawei: 28.622 and 28.623 would need correlated notifications; see S5-233581

**Decision:** The document was **revised to S5-234505**.

**S5-234505 pCR TR 28.830 Add description root cause analysis enhancement**

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

(Replaces S5-234294)

**Discussion:**

Nokia: objects

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

**S5-234295 pCR TR 28.830 Add description fault recovery related enhancement**

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

**Discussion:**

SA5 chair: will be handled offline

**Decision:** The document was **revised to S5-234552**.

**S5-234552 pCR TR 28.830 Add description fault recovery related enhancement**

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

(Replaces S5-234295)

**Discussion:**

Ericsson, Nokia: objects

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

##### 6.7.4.3 FS\_FSEV\_WoP#3

##### 6.7.4.4 Draft TR email approval

**S5-234720 TR 28.830 v0.5.0 on Study on Fault Supervision Evolution**

*Type: other For: Agreement  
 28.830 v0.5.0  
 Source: CMCC*

**Discussion:**

for email agreement

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

### 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

**S5-233822 DP on FM restructuring of TS 28-545**

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

**Discussion:**

Huawei: problem also in 7.3

**Decision:** The document was **revised to S5-234507**.

**S5-234507 DP on FM restructuring of TS 28-545**

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

(Replaces S5-233822)

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

**S5-234243 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*

**Discussion:**

Nokia: objects

Nokia: redefines what trace management is

SA5 VC (Huawei): is a copy of 32.101, intends to close the SI

**Decision:** The document was **revised to S5-234843**.

**S5-234843 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*

(Replaces S5-234243)

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

**S5-234508 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*

**Discussion:**

was originally planned as revision of S5-234243

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

**S5-234258 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*

(Replaces S5-233468)

**Discussion:**

Ericsson: we should not restrict

**Decision:** The document was **revised to S5-234509**.

**S5-234509 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*

(Replaces S5-234258)

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

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

**S5-234262 pCR TR 28.925 Update solution and add conclusion and recommendation for issue#13 Analysis on IRP specification needs to support SBMA**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: HuaWei Technologies Co., Ltd*

**Discussion:**

Ericsson: unclear in which REL this should go

Samsung: not fine to discontinue software management

**Decision:** The document was **revised to S5-234510**.

**S5-234510 pCR TR 28.925 Update solution and add conclusion and recommendation for issue#13 Analysis on IRP specification needs to support SBMA**

*Type: pCR For: Approval  
 28.925 v0.10.0  
 Source: HuaWei Technologies Co., Ltd*

(Replaces S5-234262)

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

**S5-234277 Conclusion for issue 2**

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

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

**S5-234278 Conclusion for issue 6**

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

**Discussion:**

merged into S5-234511

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

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

**S5-234259 pCR 28.925 Issue description for 28.621**

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

**Discussion:**

Nokia: spec exists also in REL-11 so text maybe confusing

**Decision:** The document was **revised to S5-234512**.

**S5-234512 pCR 28.925 Issue description for 28.621**

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

(Replaces S5-234259)

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

**S5-234264 pCR 28.925 Solution description for 28.621**

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

**Decision:** The document was **revised to S5-234513**.

**S5-234513 pCR 28.925 Solution description for 28.621**

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

(Replaces S5-234264)

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

**S5-234265 pCR 28.925 Conclusion for 28.621**

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

**Decision:** The document was **revised to S5-234514**.

**S5-234514 pCR 28.925 Conclusion for 28.621**

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

(Replaces S5-234265)

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

**S5-234266 pCR 28.925 Issue description for 28.622**

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

**Decision:** The document was **revised to S5-234515**.

**S5-234515 pCR 28.925 Issue description for 28.622**

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

(Replaces S5-234266)

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

**S5-234267 pCR 28.925 Solution description for 28.622**

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

**Decision:** The document was **revised to S5-234516**.

**S5-234516 pCR 28.925 Solution description for 28.622**

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

(Replaces S5-234267)

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

**S5-234268 pCR 28.925 Conclusion for 28.622**

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

**Decision:** The document was **revised to S5-234517**.

**S5-234517 pCR 28.925 Conclusion for 28.622**

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

(Replaces S5-234268)

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

**S5-234269 pCR 28.925 Issues for 28.623**

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

**Decision:** The document was **revised to S5-234518**.

**S5-234518 pCR 28.925 Issues for 28.623**

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

(Replaces S5-234269)

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

**S5-234271 pCR 28.925 Solution description for 28.623**

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

**Decision:** The document was **revised to S5-234519**.

**S5-234519 pCR 28.925 Solution description for 28.623**

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

(Replaces S5-234271)

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

**S5-234273 pCR 28.925 Conclusion for 28.623**

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

**Decision:** The document was **revised to S5-234520**.

**S5-234520 pCR 28.925 Conclusion for 28.623**

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

(Replaces S5-234273)

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

**S5-234274 Removal of Editor’s note in 28.925-0a0**

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

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

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

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

**S5-234240 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, Deutsche Telekom*

(Replaces S5-233461)

**Discussion:**

Ericsson: remove ? regarding Ericsson

Nokia: interface z, MnS profile are unknown; we don't have capabilities

**Decision:** The document was **revised to S5-234521**.

**S5-234521 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, Deutsche Telekom*

(Replaces S5-234240)

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

**S5-234244 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 **revised to S5-234522**.

**S5-234522 pCR TR 28.925 Update the example for management function deployment scenarios**

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

(Replaces S5-234244)

**Discussion:**

Nokia: objects

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

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

**S5-234242 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 **revised to S5-234511**.

**S5-234511 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, Ericsson*

(Replaces S5-234242)

**Discussion:**

will also include aspects of S5-234278

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

##### 6.8.1.7 Draft TR email approval

**S5-234280 Presentation of Specification/Report to TSG: TR 28.925, Version 1.0.0**

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

**Discussion:**

SA5 chair: TR will be provided to SA for 1-step approval

SA5 VC (Huawei): SA header is missing

SA5 chair: MCC will correct this in the RAN submission

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

**S5-234734 TR 28.925 v0.11.0 on Study on enhancement of service based management architecture**

*Type: draft TR For: Agreement  
 28.925 v0.11.0  
 Source: Huawei*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.8.2 Study on Basic SBMA enabler enhancements

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

**S5-233824 pCR 28.831 Single Alarm Subscription Key Issue, Requirement and Solution**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Ericsson: could be merged with S5-234178

conclusion: merged into S5-234527

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

**S5-234178 pCR 28.831 Alarm Subscription and Notification Key Issue**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Samsung R&D Institute India*

**Discussion:**

Nokia: we are not yet ready for multi-alarm issue; existing alarm are stable and well-established

**Decision:** The document was **revised to S5-234527**.

**S5-234527 pCR 28.831 Alarm Subscription and Notification Key Issue**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Samsung R&D Institute India, Ericsson*

(Replaces S5-234178)

**Discussion:**

wrong Tdoc number on Tdoc

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

**S5-234245 Rel-18 pCR 28.831 Add conclusion for issue on createMOI**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234528**.

**S5-234528 Rel-18 pCR 28.831 Add conclusion for issue on createMOI**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234245)

**Discussion:**

includes also aspects of S5-233823

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

**S5-234250 Presentation sheet for TR 28.831**

*Type: TS or TR cover For: Approval  
 28.831 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: no open issues is not correct

Nokia: was removed in Samsung's contribution

Ericsson: if the 2 issues were removed, then we can close the SI

SA5 chair: seems to be for 1-step approval

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

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

**S5-233823 pCR 28.831 Add updates and conclusion for createMOI**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Ericsson Hungary Ltd*

**Discussion:**

merged into S5-234245

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

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

**S5-233885 Rel-18 pCR TR 28.831 Add a potential solution for KI for Advertising NRM properties by the MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234529**.

**S5-234529 Rel-18 pCR TR 28.831 Add a potential solution for KI for Advertising NRM properties by the MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233885)

**Discussion:**

Samsung: overlapping with S5-234531

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

**S5-233886 Rel-18 pCR TR 28.831 Add a new key issue for Advertising notifications supported by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233268)

**Decision:** The document was **revised to S5-234530**.

**S5-234530 Rel-18 pCR TR 28.831 Add a new key issue for Advertising notifications supported by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-233886)

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

**S5-234237 Rel-18 pCR TR 28.831 Add conclusion for KI Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: would like to have conclusion together with solution

**Decision:** The document was **revised to S5-234531**.

**S5-234531 Rel-18 pCR TR 28.831 Add conclusion for KI Advertising NRM properties by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234237)

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

**S5-234377 Rel-18 pCR TR 28.831 Add potential solution and conclusion for KI Advertising notifications supported by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234532**.

**S5-234532 Rel-18 pCR TR 28.831 Add potential solution and conclusion for KI Advertising notifications supported by MnS producer**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234377)

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

**S5-234246 Rel-18 pCR 28.831 Add issue on partial success for WRITE operations (HTTP/JSON only)**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234533**.

**S5-234533 Rel-18 pCR 28.831 Add issue on partial success for WRITE operations (HTTP/JSON only)**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234246)

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

**S5-234247 Rel-18 pCR 28.831 Clarify description of the HTTP error response FS\_eSBMAe\_WoP#3**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234534**.

**S5-234534 Rel-18 pCR 28.831 Clarify description of the HTTP error response FS\_eSBMAe\_WoP#3**

*Type: pCR For: Approval  
 28.831 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234247)

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

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

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

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

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

##### 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 email approval

**S5-234721 TR 28.831 v0.8.0 on Study on basic Service-Based Management Architecture (SBMA) enabler enhancements**

*Type: draft TR For: Agreement  
 28.831 v0.8.0  
 Source: Nokia*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.8.3 Study on Management Aspects of URLLC

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

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

##### 6.8.3.3 FS\_URLLC\_Mgt\_WoP#3

**S5-234380 pCR TR28.832 Add Conclusion and recommendation for issue#3**

*Type: pCR For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

**Discussion:**

Ericsson: Issue #X should be Issue #3

**Decision:** The document was **revised to S5-234553**.

**S5-234553 pCR TR28.832 Add Conclusion and recommendation for issue#3**

*Type: pCR For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

(Replaces S5-234380)

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

**S5-234384 pCR TR28.832 Add New Solution and conclusion for performance measurements related on URLLC resource load**

*Type: pCR For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

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

**S5-234385 Presentation Sheet of TR 28.832 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

**Discussion:**

SA5 chair: TR is for 1-step approval and SI completed

**Decision:** The document was **revised to S5-234841**.

**S5-234841 Presentation Sheet of TR 28.832 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.832 v1.0.0  
 Source: China Unicom*

(Replaces S5-234385)

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

**S5-234387 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**.

**S5-234382 pCR TR28.832 Add Conclusion and recommendation for issue#5**

*Type: pCR For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

**Abstract:**

moved from AI 6.6.1.2 to AI 6.8.3.3

**Discussion:**

Ericsson: Issue #X should be Issue #3

**Decision:** The document was **revised to S5-234554**.

**S5-234554 pCR TR28.832 Add Conclusion and recommendation for issue#5**

*Type: pCR For: Approval  
 28.832 v0.6.0  
 Source: China Unicom*

(Replaces S5-234382)

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

##### 6.8.3.4 FS\_URLLC\_Mgt\_WoP#4

##### 6.8.3.5 Draft TR email approval

**S5-234722 TR 28.832 v0.7.0 on Study on management aspects of Ultra-Reliable and Low Latency Communication (URLLC)**

*Type: draft TR For: Agreement  
 28.832 v0.7.0  
 Source: China Unicom*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.8.4 Study on Management Aspects of 5G MOCN Network Sharing Phase2

##### 6.8.4.1 FS\_MANS\_ph2\_WoP#1

**S5-234372 pCR TR 28.835 Add conclusion and recommendation for issue #2**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

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

**S5-234373 pCR TR 28.835 Modify description, solution and add conclusion on issue #1**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

**Discussion:**

Nokia: not ok with 5.1.2, we explained many times how it works, nothing is needed

Nokia: it is unclear which problem we try to solve

**Decision:** The document was **revised to S5-234543**.

**S5-234543 pCR TR 28.835 Modify description, solution and add conclusion on issue #1**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

(Replaces S5-234373)

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

**S5-234374 pCR TR 28.835 Modify description, solution and add conclusion on issue #3**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

**Discussion:**

Ericsson: change "cannot provide" by "do not provide"

Nokia: it is unclear which problem we try to solve

Ericsson: there will be no normative work

Nokia: why is further study needed if there is no normative work?

**Decision:** The document was **revised to S5-234544**.

**S5-234544 pCR TR 28.835 Modify description, solution and add conclusion on issue #3**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

(Replaces S5-234374)

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

**S5-234376 pCR TR 28.835 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 **revised to S5-234545**.

**S5-234545 pCR TR 28.835 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*

(Replaces S5-234376)

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

**S5-234378 Presentation sheet of TR 28.835 for Approval**

*Type: TS or TR cover For: Approval  
 28.835 v1.0.0  
 Source: China Unicom*

**Discussion:**

SA5 chair: TR is for 1-step approval and was never provided for information

**Decision:** The document was **revised to S5-234840**.

**S5-234840 Presentation sheet of TR 28.835 for Approval**

*Type: TS or TR cover For: Approval  
 28.835 v1.0.0  
 Source: China Unicom*

(Replaces S5-234378)

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

**S5-234386 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**.

**S5-234388 pCR TR 28.835 Modify potential solution and add conclusion for issue #5**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

**Discussion:**

Nokia: requirements can be removed; sentence with "relative requirements" could be removed

**Decision:** The document was **revised to S5-234546**.

**S5-234546 pCR TR 28.835 Modify potential solution and add conclusion for issue #5**

*Type: pCR For: Approval  
 28.835 v0.6.0  
 Source: China Unicom*

(Replaces S5-234388)

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

##### 6.8.4.2 FS\_MANS\_ph2\_WoP#2

##### 6.8.4.3 FS\_MANS\_ph2\_WoP#3

##### 6.8.4.4 Draft TR email approval

**S5-234723 TR 28.835 v0.7.0 on Study on management aspects of 5G Multiple Operator Core Network (MOCN) network sharing phase2**

*Type: draft TR For: Agreement  
 28.835 v0.7.0  
 Source: China Unicom*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.8.5 Study on Management of Trace/MDT phase 2

##### 6.8.5.1 FS\_5GMDT\_Ph2\_WoP#1

##### 6.8.5.2 FS\_5GMDT\_Ph2\_WoP#2

##### 6.8.5.3 FS\_5GMDT\_Ph2\_WoP#3

##### 6.8.5.4 FS\_5GMDT\_Ph2\_WoP#4

##### 6.8.5.5 FS\_5GMDT\_Ph2\_WoP#5

##### 6.8.5.6 FS\_5GMDT\_Ph2\_WoP#6

##### 6.8.5.7 FS\_5GMDT\_Ph2\_WoP#7

##### 6.8.5.8 FS\_5GMDT\_Ph2\_WoP#8

**S5-233917 pCR TR28.837 Rapporteur clean up**

*Type: pCR For: Approval  
 28.837 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-233918 Presentation sheet of TR 28.837 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.837 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

##### 6.8.5.9 Draft TR email approval

**S5-234725 TR 28.837 v0.8.0 on Study on management of trace/ Minimization of Drive Tests (MDT) phase 2**

*Type: draft TR For: Agreement  
 28.837 v0.8.0  
 Source: Nokia*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.8.6 Study on Management Aspects of IoT NTN Enhancements

##### 6.8.6.1 FS\_IOT\_NTN\_WoP#1

**S5-234340 pCR TR 28.841 update use case for NTN mobility management**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: China Telecommunications*

**Decision:** The document was **revised to S5-234535**.

**S5-234535 pCR TR 28.841 update use case for NTN mobility management**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: China Telecommunications*

(Replaces S5-234340)

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

##### 6.8.6.2 FS\_IOT\_NTN\_WoP#2

**S5-234359 pCR 28.841 update solution for NTN mobility management enhancement**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: CATT*

**Discussion:**

merged into S5-234341

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

##### 6.8.6.3 FS\_IOT\_NTN\_WoP#3

**S5-233955 pCR 28.841 Rapporteur clean up**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: China Unicom*

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

**S5-233957 Presentation sheet of TR 28.841 for Approval**

*Type: TS or TR cover For: Approval  
 28.841 v1.0.0  
 Source: China Unicom*

**Discussion:**

SA5 chair: TR is for 1-step approval

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

**S5-234341 pCR TR 28.841 update solution#2 Potential solution for NTN Mobility Management enhancement with discontinuous satellite coverage**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: China Telecom, China Unicom*

**Discussion:**

includes aspects of S5-234359

**Decision:** The document was **revised to S5-234536**.

**S5-234536 pCR TR 28.841 update solution#2 Potential solution for NTN Mobility Management enhancement with discontinuous satellite coverage**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: China Telecommunications*

(Replaces S5-234341)

**Discussion:**

CATT is co-sourcing the document.

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

**S5-234339 pCR TR 28.841 update use case for NTN mobility management**

*Type: pCR For: Approval  
 28.841 v0.5.2  
 Source: China Telecommunications*

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

##### 6.8.6.4 Draft TR email approval

**S5-234726 TR 28.841 v0.6.0 on Study on management aspects of IoT NTN enhancements**

*Type: draft TR For: Agreement  
 28.841 v0.6.0  
 Source: China Unicom*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.8.7 Study on Data management phase 2

##### 6.8.7.1 FS\_MADCOL\_ph2\_WoP#1

**S5-234371 Rel-18 pCR 28.842 First thoughts on solution for issue 4**

*Type: pCR For: Approval  
 28.842 v0.3.0  
 Source: Nokia Germany*

**Discussion:**

Ericsson: "baseline representation" unclear; adding meta data to existing mechanism or new mechanism proposed?

Nokia: will bring an update to the next meeting

SA5 chair: this will shift the SI target date

SA5 VC (Huawei): this may mean that there is no time for a corresponding REL-18 WI

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

**S5-234400 pCR TR 28.842 Potential solution for discovery of stored management data**

*Type: pCR For: Approval  
 28.842 v0.3.0  
 Source: Microsoft Europe SARL*

**Decision:** The document was **revised to S5-234556**.

**S5-234556 pCR TR 28.842 Potential solution for discovery of stored management data**

*Type: pCR For: Approval  
 28.842 v0.3.0  
 Source: Microsoft Europe SARL*

(Replaces S5-234400)

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

##### 6.8.7.2 FS\_MADCOL\_ph2\_WoP#2

**S5-234401 pCR TR28.842 Potential solution for retrieval of stored management data**

*Type: pCR For: Approval  
 28.842 v0.3.0  
 Source: Microsoft Europe SARL*

**Discussion:**

Nokia: premature to talk about management data

**Decision:** The document was **revised to S5-234557**.

**S5-234557 pCR TR28.842 Potential solution for retrieval of stored management data**

*Type: pCR For: Approval  
 28.842 v0.3.0  
 Source: Microsoft Europe SARL*

(Replaces S5-234401)

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

##### 6.8.7.3 FS\_MADCOL\_ph2\_WoP#3

##### 6.8.7.4 FS\_MADCOL\_ph2\_WoP#4

**S5-234079 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*

(Replaces S5-233281)

**Discussion:**

MCC: pCR is based on wrong spec version?

SA5 VC (Huawei): should be based on v0.3.0

**Decision:** The document was **revised to S5-234558**.

**S5-234558 pCR TR 28.842 add issue and potential solutions for external data management**

*Type: pCR For: Approval  
 28.842 v0.3.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-234079)

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

##### 6.8.7.5 Draft TR email approval

**S5-234727 TR 28.842 v0.4.0 on Study on data management phase 2**

*Type: draft TR For: Agreement  
 28.842 v0.4.0  
 Source: Nokia*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

### 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

**S5-234129 pCR TR 28.913 Add key issues for Area based energy saving with AI technology**

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

**Discussion:**

MCC: pCR is based on wrong spec version

Nokia: what is the action requested?

Nokia: "area-based" is unclear

**Decision:** The document was **revised to S5-234559**.

**S5-234559 pCR TR 28.913 Add key issues for Area based energy saving with AI technology**

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

(Replaces S5-234129)

**Discussion:**

Ericsson: objects

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

**S5-234289 pCR TR 28.913 KI#1 Consideration of four types of metrics to estimate VNF Energy**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Huawei, AT&T, Deutsche Telekom*

**Decision:** The document was **revised to S5-234560**.

**S5-234560 pCR TR 28.913 KI#1 Consideration of four types of metrics to estimate VNF Energy**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Huawei, AT&T, Deutsche Telekom*

(Replaces S5-234289)

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

**S5-234392 pCR TR 28.913 Add potential solution for Energy Efficiency KPI of URLLC Network Slice based on both reliability**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: China Unicom*

**Discussion:**

SA5 VC (Huawei): transport network is not subject of 3GPP

**Decision:** The document was **revised to S5-234561**.

**S5-234561 pCR TR 28.913 Add potential solution for Energy Efficiency KPI of URLLC Network Slice based on both reliability**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: China Unicom, Nokia*

(Replaces S5-234392)

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

**S5-234414 Rel-18 pCR 28.913 Updates in Potential solution of clause 4.6.2.1 for EE**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Samsung Electronics Czech*

**Decision:** The document was **revised to S5-234562**.

**S5-234562 Rel-18 pCR 28.913 Updates in Potential solution of clause 4.6.2.1 for EE**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Samsung Electronics Czech*

(Replaces S5-234414)

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

**S5-234415 Rel-18 pCR 28.913 Add Conclusion and Recommendation for Key Issue 6**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Samsung Electronics Czech*

**Discussion:**

SA5 VC (Huawei): revised but alignment with solutions needed

Huawei: energy efficiency (EE) formula needs to be aligned with solution

**Decision:** The document was **revised to S5-234563**.

**S5-234563 Rel-18 pCR 28.913 Add Conclusion and Recommendation for Key Issue 6**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Samsung Electronics Czech*

(Replaces S5-234415)

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

**S5-234421 Rel-18 pCR TS 28.913 Add a potential solution for KI#6**

*Type: pCR For: Approval  
 28.913 v0.6.1  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

merged into S5-234561

Samsung: worried how to merge different formulas

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

##### 6.9.1.2 FS\_EE5G\_Ph2\_WoP#2

##### 6.9.1.3 Draft TR email approval

**S5-234301 Presentation of TR 28.913 to TSG SA for Information and Approval**

*Type: TS or TR cover For: Approval  
 28.913 v1.0.0  
 Source: Huawei*

**Discussion:**

SA5 chair: TR is for 1-step approval; but template should be updated

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

**S5-234842 Presentation of TR 28.913 to TSG SA for Information and Approval**

*Type: TS or TR cover For: Approval  
 28.913 v1.0.0  
 Source: Huawei*

**Discussion:**

was originallly intended as revision of S5-234301

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

**S5-234733 TR 28.913 v0.7.0 on Study on new aspects of EE for 5G networks phase 2**

*Type: draft TR For: Agreement  
 28.913 v0.7.0  
 Source: Huawei*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.9.2 Study on Network and Service Operations for Energy Utilities

##### 6.9.2.1 FS\_NSOEU\_WoP#1

##### 6.9.2.2 FS\_NSOEU\_WoP#2

##### 6.9.2.3 FS\_NSOEU\_WoP#3

##### 6.9.2.4 FS\_NSOEU\_WoP#4

**S5-234063 Rel-18 pCR 28.829 7.1.2.1 Solution #1 correction**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia*

**Abstract:**

This pCR proposes a correction to the figure 7.1.2.1.2-1, for improved alignement to existing specifications.

**Decision:** The document was **revised to S5-234538**.

**S5-234538 Rel-18 pCR 28.829 7.1.2.1 Solution #1 correction**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia,Deutsche Telekom*

(Replaces S5-234063)

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

##### 6.9.2.5 FS\_NSOEU\_WoP#5

##### 6.9.2.6 FS\_NSOEU\_WoP#6

##### 6.9.2.7 FS\_NSOEU\_WoP#7

##### 6.9.2.8 FS\_NSOEU\_WoP#8

##### 6.9.2.9 FS\_NSOEU\_WoP#9

**S5-234061 Rel-18 pCR 28.829 6.3.3 Requirements clarification**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia*

**Abstract:**

This pCR proposes clarifications to the requirements in TR 28.829, 6.3.3. Minor editorial errors are also corrected in this clause.

**Discussion:**

Huawei: changes on changes and comments used; general note to be added to avoid ambiguity

DT: what is the definition of "smart energy services"?

Samsung: no problem to remove the "smart"

**Decision:** The document was **revised to S5-234539**.

**S5-234539 Rel-18 pCR 28.829 6.3.3 Requirements clarification**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia,Deutsche Telekom*

(Replaces S5-234061)

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

##### 6.9.2.10 FS\_NSOEU\_WoP#10

**S5-234364 Rel-18 pCR 28.829 – Update 6.8po**

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

**Discussion:**

DT: "special counter-measures" is unclear

Samsung: we can remove explanatory text as it is covered elsewhere already

**Decision:** The document was **revised to S5-234540**.

**S5-234540 Rel-18 pCR 28.829 – Update 6.8po**

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

(Replaces S5-234364)

**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

**S5-234064 Rel-18 pCR 28.829 – Corrections**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia*

**Abstract:**

A number of minor technical corrections are needed to improve TR 28.829.

**Discussion:**

Telefonica: "solution" has to be changed to "solutions" (if we approve S5-234540)

**Decision:** The document was **revised to S5-234541**.

**S5-234541 Rel-18 pCR 28.829 – Corrections**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia,Deutsche Telekom*

(Replaces S5-234064)

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

**S5-234065 Rel-18 pCR 28.829 – Clean up**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia*

**Abstract:**

A number of editorial corrections are needed to improve the quality of TR 28.829.

**Discussion:**

Telefonica: we have MNO and network operator in multiple places

Samsung: for mobile network operator we will replace by MNO (but utility network operator will remain unchanged)

DT: there is also service network operator

Samsung: this feature is just for electric utility operator

**Decision:** The document was **revised to S5-234542**.

**S5-234542 Rel-18 pCR 28.829 – Clean up**

*Type: pCR For: Approval  
 28.829 v1.1.0  
 Source: Samsung, Nokia,Deutsche Telekom*

(Replaces S5-234065)

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

**S5-234066 Presentation of Report to TSG: TR 28.829, Version 2.0.0**

*Type: TS or TR cover For: Agreement  
 28.829 v2.0.0  
 Source: Samsung (Rapporteur)*

**Abstract:**

Send TR 28.829 for approval.

**Discussion:**

SA5 chair: TR is for approval

**Decision:** The document was **revised to S5-234844**.

**S5-234844 Presentation of Report to TSG for approval: TR 28.829, Version 2.0.0**

*Type: TS or TR cover For: Approval  
 28.829 v2.0.0  
 Source: Samsung (Rapporteur)*

(Replaces S5-234066)

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

##### 6.9.2.14 Draft TR email approval

**S5-234719 TR 28.829 v1.2.0 on Study on network and service operations for energy utilities**

*Type: draft TR For: Agreement  
 28.829 v1.2.0  
 Source: Samsung*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.9.3 Study on Key Quality Indicators (KQIs)for 5G service experience

##### 6.9.3.1 FS\_KQI\_5G\_WoP#1

##### 6.9.3.2 FS\_KQI\_5G\_WoP#2

##### 6.9.3.3 FS\_KQI\_5G\_WoP#3

**S5-234166 TR 28.863 Issue 3 Solution of KQIs for Video Uploading**

*Type: pCR For: Approval  
 28.863 v0.6.0  
 Source: Huawei*

**Discussion:**

Ericsson: description not aligned with KQI definition

**Decision:** The document was **revised to S5-234567**.

**S5-234567 TR 28.863 Issue 3 Solution of KQIs for Video Uploading**

*Type: pCR For: Approval  
 28.863 v0.6.0  
 Source: Huawei*

(Replaces S5-234166)

**Discussion:**

Ericsson: objects

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

##### 6.9.3.4 FS\_KQI\_5G\_WoP#4

**S5-234168 pCR TR 28.863 Issue4 definition of Remote controll**

*Type: pCR For: Approval  
 28.863 v0.6.0  
 Source: Huawei*

**Discussion:**

Nokia: control over remotely operated UE; it is about a non-3GPP entity; disagrees with first paragraph

**Decision:** The document was **revised to S5-234568**.

**S5-234568 pCR TR 28.863 Issue4 definition of Remote controll**

*Type: pCR For: Approval  
 28.863 v0.6.0  
 Source: Huawei*

(Replaces S5-234168)

**Discussion:**

Ericsson: objects

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

##### 6.9.3.5 FS\_KQI\_5G\_WoP#5

##### 6.9.3.6 Draft TR email approval

**S5-234728 TR 28.863 v0.7.0 on Study on Key Quality Indicators (KQIs) for 5G service experience**

*Type: draft TR For: Agreement  
 28.863 v0.7.0  
 Source: Huawei*

**Discussion:**

for email agreement

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

#### 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

**S5-234297 pCR TR 28.865 Report of achievable reliability information**

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

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

**S5-234298 pCR TR 28.865 Add description on reliability analysis**

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

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

**S5-234299 pCR TR 28.865 Add description on synchronization analysis**

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

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

**S5-234300 pCR TR 28.865 Add description on TSN related analysis**

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

**Discussion:**

Ericsson: TSN is a concept of REL-17; this is a REL-18 CR; what does the network do in REL-18?

**Decision:** The document was **revised to S5-234569**.

**S5-234569 pCR TR 28.865 Add description on TSN related analysis**

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

(Replaces S5-234300)

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

##### 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 email approval

**S5-234729 TR 28.865 v0.5.0 on Study on Deterministic Communication Service Assurance (DCSA)**

*Type: draft TR For: Agreement  
 28.865 v0.5.0  
 Source: Huawei*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 6.9.5 Study on management aspects of network slice management capability exposure

##### 6.9.5.1 FS\_NSCE\_WoP#1

**S5-234080 pCR TR 28.824 Remove EN in clause 4.1.4.5**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: Huawei*

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

**S5-234081 pCR TR 28.824 Remove obsolete ENs**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: Huawei*

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

**S5-234082 pCR TR 28.824 Update exposed MnS discovery service**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: Huawei*

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

**S5-234083 pCR TR 28.824 Update scope clause**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: Huawei*

**Discussion:**

Ericsson: make scope one sentence like in other TRs (looks like a duplication of table of contents)

**Decision:** The document was **revised to S5-234564**.

**S5-234564 pCR TR 28.824 Update scope clause**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: Huawei*

(Replaces S5-234083)

**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

**S5-234068 pCR TR 28.824 Modify conclusions and recommendations for management capability exposure in normative work**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: TELEFONICA S.A.*

**Discussion:**

Nokia: do we reference SA2, SA5 and SA6 in a TR?

**Decision:** The document was **revised to S5-234565**.

**S5-234565 pCR TR 28.824 Modify conclusions and recommendations for management capability exposure in normative work**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: TELEFONICA S.A.*

(Replaces S5-234068)

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

**S5-234069 pCR TR 28.824 Add conclusions and recommendations for NaaS ecosystem**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: TELEFONICA S.A.*

**Decision:** The document was **revised to S5-234566**.

**S5-234566 pCR TR 28.824 Add conclusions and recommendations for NaaS ecosystem**

*Type: pCR For: Approval  
 28.824 v0.11.0  
 Source: TELEFONICA S.A.*

(Replaces S5-234069)

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

##### 6.9.5.5 Draft TR email approval

**S5-234718 TR 28.824 v0.12.0 on Study on on network slice management capability exposure**

*Type: draft TR For: Agreement  
 28.824 v0.12.0  
 Source: Alibaba*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

**S5-234644 Cover sheet draft TR 28.824**

*Type: TS or TR cover For: Approval  
 28.824 v..  
 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

**S5-233989 pCR 28.903 Add new requirements and solution for federation management**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: AsiaInfo*

**Decision:** The document was **revised to S5-234570**.

**S5-234570 pCR 28.903 Add new requirements and solution for federation management**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: AsiaInfo*

(Replaces S5-233989)

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

**S5-234124 pCR 28.903 Federated EAS resource reservation management**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

**Discussion:**

Nokia: solutions in a SI TR? looks like key issues and normative requirements are already there; TR is for information?

SA5 VC (Huawei): is actually for approval to TSG #100

**Decision:** The document was **revised to S5-234571**.

**S5-234571 pCR 28.903 Federated EAS resource reservation management**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

(Replaces S5-234124)

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

**S5-234572 pCR 28.903 rapporteur's cleanup**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

(Replaces S5-234571)

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

**S5-234227 pCR 28.903 Conclusion and Recommendations for EAS relocation policies Key Issue**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Samsung, Huawei*

**Discussion:**

SA5 VC (Huawei): correct typo

**Decision:** The document was **revised to S5-234573**.

**S5-234573 pCR 28.903 Conclusion and Recommendations for EAS relocation policies Key Issue**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Samsung, Huawei*

(Replaces S5-234227)

**Discussion:**

wrong Tdoc number on the pCR

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

**S5-234229 pCR 28.903 Conclusion and Recommendations for Federation Management**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Samsung, Huawei*

**Decision:** The document was **revised to S5-234574**.

**S5-234574 pCR 28.903 Conclusion and Recommendations for Federation Management**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Samsung, Huawei*

(Replaces S5-234229)

**Discussion:**

wrong Tdoc number on the Tdoc;

SA5 chair (Huawei): just 2 removals to be done

conclusion: approved unseen

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

**S5-233990 pCR 28.903 Add new requirements and solution for federated EAS deployment and termination**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: AsiaInfo*

**Discussion:**

merged into S5-234575

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

**S5-234123 pCR 28.903 Federated EAS deployment and termination**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234575**.

**S5-234575 pCR 28.903 Federated EAS deployment and termination**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei, Samsung, AsiaInfo*

(Replaces S5-234123)

**Discussion:**

includes also aspects of S5-233990

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

**S5-233991 pCR 28.903 Modify requirements and solution for Application Resource**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: AsiaInfo*

**Decision:** The document was **revised to S5-234576**.

**S5-234576 pCR 28.903 Modify requirements and solution for Application Resource**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: AsiaInfo*

(Replaces S5-233991)

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

**S5-234091 pCR 28.903 editorial correction**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: NTT DOCOMO INC.*

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

**S5-234125 pCR 28.903 solution for query available edge services**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

**Discussion:**

SA5 VC (Huawei): who uses the query is not clear; Mano?

Huawei: yes

**Decision:** The document was **revised to S5-234577**.

**S5-234577 pCR 28.903 solution for query available edge services**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei, Samsung*

(Replaces S5-234125)

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

**S5-234126 pCR 28.903 update description of GSMA OPG**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234578**.

**S5-234578 pCR 28.903 update description of GSMA OPG**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Huawei, Samsung*

(Replaces S5-234126)

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

**S5-234127 Presentation sheet of TR 28.903 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.903 v1.0.0  
 Source: Huawei*

**Discussion:**

SA5 chair: TR is for 1-step approval

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

**S5-234231 pCR 28.903 Solution Conclusion and Recommendations for EDN Sharing**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Samsung, Huawei*

**Decision:** The document was **revised to S5-234579**.

**S5-234579 pCR 28.903 Solution Conclusion and Recommendations for EDN Sharing**

*Type: pCR For: Approval  
 28.903 v0.6.0  
 Source: Samsung, Huawei*

(Replaces S5-234231)

**Discussion:**

Tdoc number missing on the pCR

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

##### 6.9.6.3 Draft TR email approval

**S5-234730 TR 28.903 v0.7.0 on Study on alignment with ETSI Mobile Edge Computing (MEC) for Edge computing management**

*Type: draft TR For: Agreement  
 28.903 v0.7.0  
 Source: Huawei*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

## 7 Charging

### 7.1 Charging Plenary

**S5-233808 CH agenda and time plan**

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

**Decision:** The document was **revised to S5-234443**.

**S5-234443 CH agenda and time plan**

*Type: agenda For: -  
 Source: WG vice Chair (Matrixx Software)*

(Replaces S5-233808)

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

**S5-233810 Charging exec report**

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

**Discussion:**

SA5 chair: SA5 confirmed agreement of the CRs agreed in the charging group

MCC: 28.826 and 28.827 will not be brought to SA #100?

SA5 VC (Matrix): they were already provided for information in past and come for approval when the WIs are completed

Samsung: slide 3: LS from SA2 on charging, any reason for postponing it

SA5 VC (Matrix): plans to start a SI on this and will reply then

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

**S5-233840 LS on charging aspects of AI/ML traffic**

*Type: LS in For: (not specified)  
 Original outgoing LS: S2-2305426, to -, cc -  
 Source: S2-2305426*

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

**S5-233846 Reply LS on Enhancement on Charging Identifier Uniqueness Mechanism**

*Type: LS in For: (not specified)  
 Original outgoing LS: C4-225411, to -, cc -  
 Source: C4-225411*

**Decision:** The document was **replied to in S5-234452**.

**S5-234308 LS Reply on Enhancement on Charging Identifier Uniqueness Mechanism**

*Type: LS out For: Approval  
 to 3GPP CT4, cc 3GPP CT3  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234452**.

**S5-234452 Reply LS to C4-225411 = S5-233195 on Enhancement on Charging Identifier Uniqueness Mechanism (to: CT4; cc: CT3; contact: Ericsson)**

*Type: LS out For: Approval  
 to CT4, cc CT3  
 Source: SA5*

(Replaces S5-234308)

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

**S5-233853 LS on Slice based (wholesale) differentiation and charging in roaming**

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

**Decision:** The document was **replied to in S5-234453**.

**S5-234399 LS reply on Slice based (wholesale) differentiation and charging in roaming**

*Type: LS out For: Approval  
 to GSMA  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234453**.

**S5-234453 Reply LS to GSMA LS S5-233853 on Slice based (wholesale) differentiation and charging in roaming (to: GSMA NG ENSWI; cc: GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2; contact: MATRIXX Software)**

*Type: LS out For: Approval  
 to GSMA NG ENSWI, cc GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2  
 Source: SA5*

(Replaces S5-234399)

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

**S5-233809 Collection of useful endorsed document and external communication documents**

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

**Abstract:**

moved from AI 5.1 to AI 7.1

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

**S5-234224 Collection of useful charging contributions and external communication documents**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **revised to S5-234454**.

**S5-234454 Collection of useful charging contributions and external communication documents**

*Type: other For: Agreement  
 Source: Huawei*

(Replaces S5-234224)

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

### 7.2 New Charging Work Item proposals

**S5-234393 New WID on Charging enhancement for Network Slice based wholesale in roaming**

*Type: WID new For: Agreement  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234455**.

**S5-234455 New WID on Charging enhancement for Network Slice based wholesale in roaming**

*Type: WID new For: Agreement  
 Source: MATRIXX Software*

(Replaces S5-234393)

**Discussion:**

SA5 VC (Matrix): WI is started and completed; was a request from GSMA (LS half a year ago which got postponed)

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

**S5-234394 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0467 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

**Discussion:**

moved from AI 7.3 to AI 7.2

**Decision:** The document was **revised to S5-234456**.

**S5-234456 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0467 rev 1 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

(Replaces S5-234394)

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

**S5-234395 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0422 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

**Discussion:**

moved from AI 7.3 to AI 7.2

**Decision:** The document was **revised to S5-234457**.

**S5-234457 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0422 rev 1 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

(Replaces S5-234395)

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

**S5-234396 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.256 v17.2.0 CR-0011 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

**Discussion:**

moved from AI 7.3 to AI 7.2

**Decision:** The document was **revised to S5-234458**.

**S5-234458 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.256 v17.2.0 CR-0011 rev 1 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

(Replaces S5-234396)

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

**S5-234397 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0480 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

**Discussion:**

moved from AI 7.3 to AI 7.2

**Decision:** The document was **revised to S5-234459**.

**S5-234459 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0480 rev 1 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

(Replaces S5-234397)

**Discussion:**

was agreed in charging session and then revised in closing plenary

**Decision:** The document was **revised to S5-234830**.

**S5-234830 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0480 rev 2 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

(Replaces S5-234459)

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

**S5-234398 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0945 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

**Discussion:**

moved from AI 7.3 to AI 7.2

**Decision:** The document was **revised to S5-234460**.

**S5-234460 Slice-aware charging for Roaming partners**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0945 rev 1 Cat: B (Rel-18)  
  
 Source: MATRIXX Software*

(Replaces S5-234398)

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

### 7.3 Charging Maintenance and Rel-18 small Enhancements

**S5-233986 Update Roaming Profile in case of inter plmn N2 HO (Home Routed case)**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0417 Cat: C (Rel-18)  
  
 Source: Cisco Systems France*

**Discussion:**

moved from AI 6.3.14 to AI 7.3

**Decision:** The document was **revised to S5-234090**.

**S5-234090 Update Roaming Charing Profile in case of I-SMF insertion or I-SMF Change (Home Routed case)**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0417 rev 1 Cat: F (Rel-18)  
  
 Source: Cisco Systems France*

(Replaces S5-233986)

**Discussion:**

moved from AI 6.3.14 to AI 7.3

**Decision:** The document was **revised to S5-234487**.

**S5-234487 Update SMF-CHF interaction step ordering for I-SMF insertion or change**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0417 rev 2 Cat: A (Rel-17)  
  
 Source: Cisco Systems France*

(Replaces S5-234090)

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

**S5-234488 Update SMF-CHF interaction step ordering for I-SMF insertion or change**

*Type: CR For: Agreement  
 32.255 v16.13.0 CR-0423 Cat: F (Rel-16)  
  
 Source: Cisco*

**Abstract:**

see REL-17 CR in S5-234487

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

**S5-234209 Correct the message flow for SCUR blocking mode**

*Type: CR For: Agreement  
 32.290 v17.6.0 CR-0195 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-234210 Rel-18 CR 32.290 Correct the SCUR blocking-mode message flow**

*Type: CR For: Agreement  
 32.290 v18.1.0 CR-0196 Cat: A (Rel-18)  
  
 Source: Huawei*

**Discussion:**

MCC: cat. (F=>A) and WI code (TEI18=>TEI17) has to be corrected

**Decision:** The document was **revised to S5-234599**.

**S5-234599 Rel-18 CR 32.290 Correct the SCUR blocking-mode message flow**

*Type: CR For: Agreement  
 32.290 v18.1.0 CR-0196 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234210)

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

**S5-234211 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0457 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233449)

**Decision:** The document was **revised to S5-234600**.

**S5-234600 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0457 rev 2 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-234211)

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

**S5-234212 Rel-18 CR 32.240 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0462 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-233550)

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

**S5-234286 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0458 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-233450)

**Decision:** The document was **revised to S5-234601**.

**S5-234601 Add the converged charging mapping**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0458 rev 2 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234286)

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

**S5-234213 Add the charging data transfer for the converged charging**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0463 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234602**.

**S5-234602 Add the charging data transfer for the converged charging**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0463 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-234213)

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

**S5-234214 Add the charging data transfer for the converged charging**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0464 Cat: A (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234603**.

**S5-234603 Add the charging data transfer for the converged charging**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0464 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234214)

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

**S5-234215 Correction the description for the converged charging**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0465 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234604**.

**S5-234604 Correction the description for the converged charging**

*Type: CR For: Agreement  
 32.240 v17.9.0 CR-0465 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-234215)

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

**S5-234216 Correction the description for the converged charging**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0466 Cat: A (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-234605**.

**S5-234605 Correction the description for the converged charging**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0466 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234216)

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

**S5-234217 Discussion Paper on Triggers in Charging Stage 2 and Stage 3**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-234218 Rel-17 CR 32.298 Addition of the NF Triggers in the CHF CDR**

*Type: CR For: Agreement  
 32.298 v17.6.0 CR-0940 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233551)

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

**S5-234219 Rel-18 CR 32.298 Addition of the NF Triggers in the CHF CDR**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0941 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-233552)

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

**S5-234287 Addition of the NF Triggers in the CHF CDR**

*Type: CR For: Agreement  
 32.298 v17.6.0 CR-0935 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-233451)

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

**S5-234288 Rel-18 CR 32.298 Addition of the NF Triggers in the CHF CDR**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0936 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-233452)

**Discussion:**

MCC: WI code (TEI18=>TEI17) has to be corrected as this is a cat.A CR to S5-234209

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

**S5-234309 Rel-17 CR 32.291 Correction of requested units**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0470 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-233297)

**Decision:** The document was **revised to S5-234606**.

**S5-234606 Rel-17 CR 32.291 Correction of requested units**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0470 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-234309)

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

**S5-234310 Rel-18 CR 32.291 Correction of requested units**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0471 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

(Replaces S5-233298)

**Decision:** The document was **revised to S5-234607**.

**S5-234607 Rel-18 CR 32.291 Correction of requested units**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0471 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

(Replaces S5-234310)

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

**S5-234608 Rel-17 CR 32.290 Correction of requested units**

*Type: CR For: Agreement  
 32.290 v17.6.0 CR-0198 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

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

**S5-234609 Rel-18 CR 32.290 Correction of requested units**

*Type: CR For: Agreement  
 32.290 v18.1.0 CR-0199 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

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

**S5-234311 Rel-16 CR 32.291 Correction of QFIContainerInformation**

*Type: CR For: Agreement  
 32.291 v16.14.0 CR-0477 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

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

**S5-234312 Rel-17 CR 32.291 Correction of QFIContainerInformation**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0478 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234610**.

**S5-234610 Rel-17 CR 32.291 Correction of QFIContainerInformation**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0478 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-234312)

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

**S5-234313 Rel-18 CR 32.291 Correction of QFIContainerInformation**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0479 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234611**.

**S5-234611 Rel-18 CR 32.291 Correction of QFIContainerInformation**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0479 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

(Replaces S5-234313)

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

**S5-234314 Rel-18 CR 32.290 Correction of unit type usage for converged charging**

*Type: CR For: Agreement  
 32.290 v18.1.0 CR-0197 Cat: F (Rel-18)  
  
 Source: Ericsson LM*

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

**S5-234315 Rel-17 CR 32.255 Correction of missing inter and intra PLMN mobility**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0419 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234612**.

**S5-234612 Rel-17 CR 32.255 Correction of missing inter and intra PLMN mobility**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0419 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM, Cisco Systems*

(Replaces S5-234315)

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

**S5-234316 Rel-17 CR 32.255 Correction of inter PLMN without Charging Identifier as string**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0420 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

**Discussion:**

MCC: missing CR number 0420 on CR cover

**Decision:** The document was **revised to S5-234613**.

**S5-234613 Rel-17 CR 32.255 Correction of inter PLMN without Charging Identifier as string**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0420 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-234316)

**Discussion:**

MCC: wrong rev - instead of rev 1 on CR cover

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

**S5-234317 Rel-17 CR 32.255 Correction of interworking with EPC and Charging Identifier as string**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0421 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234614**.

**S5-234614 Rel-17 CR 32.255 Correction of interworking with EPC and Charging Identifier as string**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0421 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-234317)

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

**S5-234318 Rel-16 CR 32.298 Correction of TS 22.142 reference in ASN.1**

*Type: CR For: Agreement  
 32.298 v16.12.0 CR-0942 Cat: F (Rel-16)  
  
 Source: Ericsson LM*

**Discussion:**

MCC: wrong REL (REL-18=>REL-16) on CR cover

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

**S5-234319 Rel-17 CR 32.298 Correction of TS 22.142 reference in ASN.1**

*Type: CR For: Agreement  
 32.298 v17.6.0 CR-0943 Cat: A (Rel-17)  
  
 Source: Ericsson LM*

**Discussion:**

MCC: wrong REL (REL-18=>REL-17) on CR cover

**Decision:** The document was **revised to S5-234615**.

**S5-234615 Rel-17 CR 32.298 Correction of TS 22.142 reference in ASN.1**

*Type: CR For: Agreement  
 32.298 v17.6.0 CR-0943 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson LM*

(Replaces S5-234319)

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

**S5-234320 Rel-18 CR 32.298 Correction of TS 22.142 reference in ASN.1**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0944 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234616**.

**S5-234616 Rel-18 CR 32.298 Correction of TS 22.142 reference in ASN.1**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0944 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

(Replaces S5-234320)

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

**S5-234220 Update OpenAPI version**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0475 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

MCC: WI code on CR cover ("TEI17, 5GS\_Ph1-SBI\_CH") not aligned with WI code in 3GU (TEI17); Note: 5GS\_Ph1-SBI\_CH was a REL-15 WI. REL-15/REL-16 CR not considered?

**Decision:** The document was **revised to S5-234617**.

**S5-234617 Update OpenAPI version**

*Type: CR For: Agreement  
 32.291 v17.6.0 CR-0475 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-234220)

**Discussion:**

MCC: WI code to be verified

**Decision:** The document was **email agreement**.

**S5-234221 Update OpenAPI version**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0476 Cat: F (Rel-18)  
  
 Source: Huawei*

**Discussion:**

MCC: WI code on CR cover ("TEI18, 5GS\_Ph1-SBI\_CH") not aligned with WI code in 3GU (TEI18); Note: 5GS\_Ph1-SBI\_CH was a REL-15 WI; why is this a cat.F and not a cat.A CR?

**Decision:** The document was **revised to S5-234618**.

**S5-234618 Update OpenAPI version**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0476 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-234221)

**Decision:** The document was **email agreement**.

### 7.4 Rel-18 Charging

#### 7.4.1 Charging Aspects of Network Slicing Phase 2

**S5-234402 Rel-18 pCR 28.203 Solve Editor's Note on charged party**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234461**.

**S5-234461 Rel-18 pCR 28.203 Solve Editor's Note on charged party**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

(Replaces S5-234402)

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

**S5-234403 Discussion paper on NSACF triggers**

*Type: discussion For: Approval  
 Source: MATRIXX Software*

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

**S5-234404 Rel-18 pCR 28.203 Introduce Nb of UEs PEC message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234468**.

**S5-234468 Rel-18 pCR 28.203 Introduce Nb of UEs PEC message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software, Ericsson*

(Replaces S5-234404)

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

**S5-234322 Rel-18 pCR 28.203 Adding PEC for number of UEs per NSSAI**

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

**Discussion:**

merged with S5-234404 into S5-234468

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

**S5-234405 Rel-18 pCR 28.203 Introduce Nb of UEs ECUR message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234469**.

**S5-234469 Rel-18 pCR 28.203 Introduce Nb of UEs ECUR message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

(Replaces S5-234405)

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

**S5-234406 Rel-18 pCR 28.203 Introduce Nb of PDUs PEC message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234470**.

**S5-234470 Rel-18 pCR 28.203 Introduce Nb of PDUs PEC message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

(Replaces S5-234406)

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

**S5-234407 Rel-18 pCR 28.203 Introduce Nb of PDUs IEC message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

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

**S5-234408 Rel-18 pCR 28.203 Introduce Nb of PDUs ECUR message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234471**.

**S5-234471 Rel-18 pCR 28.203 Introduce Nb of PDUs ECUR message flow**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

(Replaces S5-234408)

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

**S5-234434 Rel-18 pCR 28.203 Introduce message flows SCUR**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234472**.

**S5-234472 Rel-18 pCR 28.203 Introduce message flows SCUR**

*Type: pCR For: Approval  
 28.203 v0.2.0  
 Source: MATRIXX Software*

(Replaces S5-234434)

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

**S5-234321 Rel-18 pCR 28.203 Adding SCUR for number of UEs per NSSAI**

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

**Discussion:**

merged with S5-234434 into S5-234472

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

**S5-234444 TS 28.203 v0.3.0 on Charging management; Network slice admission control charging in the 5G System (5GS)**

*Type: draft TS For: Agreement  
 28.203 v0.3.0  
 Source: MATRIXX Software*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.4.2 Charging Aspects for NSSAA

**S5-234411 Rel-18 pCR 28.204 Introduce architecture**

*Type: pCR For: Approval  
 28.204 v0.1.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234473**.

**S5-234473 Rel-18 pCR 28.204 Introduce architecture**

*Type: pCR For: Approval  
 28.204 v0.1.0  
 Source: MATRIXX Software*

(Replaces S5-234411)

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

**S5-234412 Rel-18 pCR 28.204 Intoduce charging principles**

*Type: pCR For: Approval  
 28.204 v0.1.0  
 Source: MATRIXX Software*

**Decision:** The document was **revised to S5-234474**.

**S5-234474 Rel-18 pCR 28.204 Intoduce charging principles**

*Type: pCR For: Approval  
 28.204 v0.1.0  
 Source: MATRIXX Software*

(Replaces S5-234412)

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

**S5-234445 TS 28.204 v0.2.0 on Charging management; Network slice-specific authentication and authorization charging in the 5G System (5GS)**

*Type: draft TS For: Agreement  
 28.204 v0.2.0  
 Source: MATRIXX Software*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.4.3 Charging Aspects for Enhanced Support of Non-Public Networks

**S5-234092 Rel-18 CR 32.255 Add Identifier of SNPN for 5G data connectivity charging**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0418 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234462**.

**S5-234462 Rel-18 CR 32.255 Add Identifier of SNPN for 5G data connectivity charging**

*Type: CR For: Agreement  
 32.255 v17.9.0 CR-0418 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234092)

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

**S5-234093 Rel-18 CR 32.291 Add Identifier of SNPN for 5G data connectivity charging**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0473 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234463**.

**S5-234463 Rel-18 CR 32.291 Add Identifier of SNPN for 5G data connectivity charging**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0473 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234093)

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

**S5-234094 Rel-18 CR 32.298 Add Identifier of SNPN for 5G data connectivity charging**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0938 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234464**.

**S5-234464 Rel-18 CR 32.298 Add Identifier of SNPN for 5G data connectivity charging**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0938 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234094)

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

**S5-234095 Rel-18 CR 32.256 Add Identifier of SNPN for 5G connection and mobility charging**

*Type: CR For: Agreement  
 32.256 v17.2.0 CR-0010 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234465**.

**S5-234465 Rel-18 CR 32.256 Add Identifier of SNPN for 5G connection and mobility charging**

*Type: CR For: Agreement  
 32.256 v17.2.0 CR-0010 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234095)

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

**S5-234096 Rel-18 CR 32.291 Add Identifier of SNPN for 5G connection and mobility charging**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0474 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234466**.

**S5-234466 Rel-18 CR 32.291 Add Identifier of SNPN for 5G connection and mobility charging**

*Type: CR For: Agreement  
 32.291 v18.1.0 CR-0474 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234096)

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

**S5-234097 Rel-18 CR 32.298 Add Identifier of SNPN for 5G connection and mobility charging**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0939 Cat: F (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S5-234467**.

**S5-234467 Rel-18 CR 32.298 Add Identifier of SNPN for 5G connection and mobility charging**

*Type: CR For: Agreement  
 32.298 v18.1.0 CR-0939 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S5-234097)

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

#### 7.4.4 CHF Distributed Availability

**S5-234005 DP on CCS Definition and Deployment Models**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234006 Rel-18 CR TS 32.240 Deployment Models**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0461 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234475**.

**S5-234475 Rel-18 CR TS 32.240 Deployment Models**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0461 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei*

(Replaces S5-234006)

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

**S5-234222 Discussion paper for CHF distributed deployment architecture**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-234223 An architecture for CHF distributed deployment**

*Type: CR For: Agreement  
 32.240 v18.2.0 CR-0459 rev 1 Cat: C (Rel-18)  
  
 Source: Huawei*

(Replaces S5-233454)

**Discussion:**

merged with S5-2344006 in S5-234475

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

### 7.5 Charging studies

#### 7.5.1 Study on Nchf charging services phase 2

**S5-234007 Rel-18 pCR 28.826 Solution #1.15 Trigger**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Nokia. Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234476**.

**S5-234476 Rel-18 pCR 28.826 Solution #1.15 Trigger**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Nokia. Nokia Shanghai Bell*

(Replaces S5-234007)

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

**S5-234179 Rel-18 pCR 28.826 Add the solution for reporting depending on the triggers**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Huawei*

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

**S5-234477 Rel-18 pCR 28.826 Add the solution for reporting depending on the triggers**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Huawei*

**Discussion:**

was a planned revision of S5-234179

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

**S5-234180 Rel-18 pCR 28.826 Add the solution evaluation**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234478**.

**S5-234478 Rel-18 pCR 28.826 Add the solution evaluation**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Huawei*

(Replaces S5-234180)

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

**S5-234323 Rel-18 pCR 28.826 Adding solution using service identifier as string**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

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

**S5-234479 Rel-18 pCR 28.826 Adding solution using service identifier as string**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

**Discussion:**

was a planned revision of S5-234323

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

**S5-234324 Rel-18 pCR 28.826 New use case for used unit containers for one rating group split over messages**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234480**.

**S5-234480 Rel-18 pCR 28.826 New use case for used unit containers for one rating group split over messages**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

(Replaces S5-234324)

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

**S5-234325 Rel-18 pCR 28.826 Adding use case and key issue on handling of event charging triggers**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234481**.

**S5-234481 Rel-18 pCR 28.826 Adding use case and key issue on handling of event charging triggers**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

(Replaces S5-234325)

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

**S5-234326 Rel-18 pCR 28.826 Adding solution using charging trigger profile**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234482**.

**S5-234482 Rel-18 pCR 28.826 Adding solution using charging trigger profile**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

(Replaces S5-234326)

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

**S5-234327 Rel-18 pCR 28.826 Adding solution using container reference for message size**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234483**.

**S5-234483 Rel-18 pCR 28.826 Adding solution using container reference for message size**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

(Replaces S5-234327)

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

**S5-234328 Rel-18 pCR 28.826 Adding solution using common data for message size**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

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

**S5-234484 Rel-18 pCR 28.826 Adding solution using common data for message size**

*Type: pCR For: Approval  
 28.826 v1.4.0  
 Source: Ericsson LM*

**Discussion:**

was a planned revision of S5-234328

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

**S5-234446 TR 28.826 v1.5.0 on Study on Nchf charging services phase 2 improvements and optimizations**

*Type: draft TR For: Agreement  
 28.826 v1.5.0  
 Source: Ericsson LM*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.5.2 Study on 5G roaming charging architecture for wholesale and retail scenarios

**S5-234181 Discussion paper for CHF-to-CHF interaction**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-234184 Rel-18 pCR 28.827 Add key issue in clause 7.2 and new solution #2.x for same granularity of charging session**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Discussion:**

merged with S5-234185 in S5-234485

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

**S5-234185 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: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234485**.

**S5-234485 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: Approval  
 28.827 v1.8.0  
 Source: Huawei*

(Replaces S5-234185)

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

**S5-234182 Discussion paper for PDU session level triggers for QBC and FBC**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-234188 Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.1**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234486**.

**S5-234486 Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.1**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

(Replaces S5-234188)

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

**S5-234183 Discussion paper for roaming charging profiles update with profile change time**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-234189 Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.2**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234619**.

**S5-234619 Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.2**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

(Replaces S5-234189)

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

**S5-234186 Rel-18 pCR 28.827 Correct errors in clause 7.2.4.1.3**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234620**.

**S5-234620 Rel-18 pCR 28.827 Correct errors in clause 7.2.4.1.3**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

(Replaces S5-234186)

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

**S5-234187 Rel-18 pCR 28.827 Resolve EN in solution #2.10**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234621**.

**S5-234621 Rel-18 pCR 28.827 Resolve EN in solution #2.10**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

(Replaces S5-234187)

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

**S5-234329 Rel-18 pCR 28.827 Adding user reporting solution in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234622**.

**S5-234622 Rel-18 pCR 28.827 Adding user reporting solution in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

(Replaces S5-234329)

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

**S5-234330 Rel-18 pCR 28.827 Adding conclusion in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234623**.

**S5-234623 Rel-18 pCR 28.827 Adding conclusion in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM, Huawei*

(Replaces S5-234330)

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

**S5-234191 Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.6**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Discussion:**

merged with S5-234330 in S5-234623

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

**S5-234331 Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.3**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234624**.

**S5-234624 Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.3**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

(Replaces S5-234331)

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

**S5-234332 Rel-18 pCR 28.827 Adding conclusion in clause 7.3**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

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

**S5-234333 Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234625**.

**S5-234625 Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM, Huawei*

(Replaces S5-234333)

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

**S5-234192 Rel-18 pCR 28.827 Add new solution in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Discussion:**

merged with S5-234333 in S5-234625

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

**S5-234334 Rel-18 pCR 28.827 Adding conclusion in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234626**.

**S5-234626 Rel-18 pCR 28.827 Adding conclusion in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Ericsson LM, Huawei*

(Replaces S5-234334)

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

**S5-234190 Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.5**

*Type: pCR For: Approval  
 28.827 v1.8.0  
 Source: Huawei*

**Discussion:**

merged with S5-234334 in S5-234626

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

**S5-234447 TR 28.827 v1.9.0 on Study on 5G charging for additional roaming scenarios and actors**

*Type: draft TR For: Agreement  
 28.827 v1.9.0  
 Source: Ericsson*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.5.3 Study on Time Sensitive Networking charging

**S5-234337 Rel-18 pCR 28.839 Adding missing abbreviations and references**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234627**.

**S5-234627 Rel-18 pCR 28.839 Adding missing abbreviations and references**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Ericsson LM*

(Replaces S5-234337)

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

**S5-234336 Rel-18 pCR 28.839 Correcting exposure solution using NEF**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234628**.

**S5-234628 Rel-18 pCR 28.839 Correcting exposure solution using NEF**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Ericsson LM*

(Replaces S5-234336)

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

**S5-234193 Rel18 pCR TR 28.839 Addition of the solution for the Enablers for TSC and TS Charging**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234629**.

**S5-234629 Rel18 pCR TR 28.839 Addition of the solution for the Enablers for TSC and TS Charging**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Huawei*

(Replaces S5-234193)

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

**S5-234335 Rel-18 pCR 28.839 Adding solution using charging from trusted AF and PEC**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-234630**.

**S5-234630 Rel-18 pCR 28.839 Adding solution using charging from trusted AF and PEC**

*Type: pCR For: Approval  
 28.839 v0.6.0  
 Source: Ericsson LM*

(Replaces S5-234335)

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

**S5-234194 Presentation of TR 28.839 for information**

*Type: TS or TR cover For: Agreement  
 28.839 v..  
 Source: Huawei*

**Decision:** The document was **revised to S5-234631**.

**S5-234631 Presentation of TR 28.839 for information**

*Type: TS or TR cover For: Agreement  
 28.839 v..  
 Source: Huawei*

(Replaces S5-234194)

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

**S5-234448 TR 28.839 v0.7.0 on Study on time sensitive networking charging**

*Type: draft TR For: Agreement  
 28.839 v0.7.0  
 Source: Huawei*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.5.4 Study on CHF Segmentation

**S5-234008 pCR TR 28.840 Update of the Overview**

*Type: pCR For: Approval  
 28.840 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-234632**.

**S5-234632 pCR TR 28.840 Update of the Overview**

*Type: pCR For: Approval  
 28.840 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234008)

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

**S5-234010 pCR TR 28.840 Abbreviations chapter Update**

*Type: pCR For: Approval  
 28.840 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-234009 TR 28.840 v0.3.0 on Study on CHF segmentation**

*Type: draft TR For: Agreement  
 28.840 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.5.5 Study on Structure of Charging for Verticals

**S5-234195 Rel18 pCR TR28.843 Clarification on the concept**

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

**Decision:** The document was **revised to S5-234451**.

**S5-234451 Rel18 pCR TR28.843 Clarification on the concept**

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

(Replaces S5-234195)

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

**S5-234196 Rel18 pCR TR28.843 Clarification on business roles**

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

**Decision:** The document was **revised to S5-234633**.

**S5-234633 Rel18 pCR TR28.843 Clarification on business roles**

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

(Replaces S5-234196)

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

**S5-234197 Rel18 pCR TR28.843 Addition of the solution about new TS for the charging architecture and principles**

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

**Decision:** The document was **revised to S5-234634**.

**S5-234634 Rel18 pCR TR28.843 Addition of the solution about new TS for the charging architecture and principles**

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

(Replaces S5-234197)

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

**S5-234198 Rel18 pCR TR28.843 Addition of the solution about restructure for the charging principle**

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

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

**S5-234199 Rel18 pCR TR28.843 Addition of the solution about CHF selection**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **not pursued**.

**S5-234200 Rel18 pCR TR28.843 Addition of the solution about converged charging architecture**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234635**.

**S5-234635 Rel18 pCR TR28.843 Addition of the solution about converged charging architecture**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234200)

**Decision:** The document was **approved**.

**S5-234201 Rel18 pCR TR28.843 Addition of the solution about network slice tenant charging architecture**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234636**.

**S5-234636 Rel18 pCR TR28.843 Addition of the solution about network slice tenant charging architecture**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234201)

**Decision:** The document was **approved**.

**S5-234202 Rel18 pCR TR28.843 Addition of the solution about converged tenant charging architecture**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234637**.

**S5-234637 Rel18 pCR TR28.843 Addition of the solution about converged tenant charging architecture**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234202)

**Decision:** The document was **approved**.

**S5-234203 Rel18 pCR TR28.843 Addition of the solution about CHF to CHF communication**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234638**.

**S5-234638 Rel18 pCR TR28.843 Addition of the solution about CHF to CHF communication**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234203)

**Decision:** The document was **approved**.

**S5-234204 Rel18 pCR TR28.843 Addition of the solution about NF to CHFs Communication**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234639**.

**S5-234639 Rel18 pCR TR28.843 Addition of the solution about NF to CHFs Communication**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234204)

**Decision:** The document was **approved**.

**S5-234205 Rel18 pCR TR28.843 Addition of the solution about separated charging architecure**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234640**.

**S5-234640 Rel18 pCR TR28.843 Addition of the solution about separated charging architecure**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234205)

**Decision:** The document was **approved**.

**S5-234206 Rel18 pCR TR28.843 Addition of the use cases for architecture and charging principle investigation**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234641**.

**S5-234641 Rel18 pCR TR28.843 Addition of the use cases for architecture and charging principle investigation**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234206)

**Decision:** The document was **approved**.

**S5-234207 Rel18 pCR TR28.843 Addition of mapping, evaluation and conclusion**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-234642**.

**S5-234642 Rel18 pCR TR28.843 Addition of mapping, evaluation and conclusion**

*Type: pCR For: Approval  
 28.843 v0.2.0  
 Source: Huawei*

(Replaces S5-234207)

**Decision:** The document was **approved**.

**S5-234208 Presentation of TR 28.843 for information**

*Type: TS or TR cover For: Agreement  
 28.843 v..  
 Source: Huawei*

**Discussion:**

MCC: wrong Tdoc type corrected to TS/TR cover

**Decision:** The document was **revised to S5-234643**.

**S5-234643 Presentation of TR 28.843 for information**

*Type: TS or TR cover For: Agreement  
 28.843 v..  
 Source: Huawei*

(Replaces S5-234208)

**Decision:** The document was **approved**.

**S5-234449 TR 28.843 v0.3.0 on Study on structure of charging for verticals**

*Type: draft TR For: Agreement  
 28.843 v0.3.0  
 Source: Huawei*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

#### 7.5.6 Study on charging aspects of Satellite in 5GS

**S5-234344 TR 28.844 Update Abbreviations and edit correction in business roles**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

**Decision:** The document was **approved**.

**S5-234345 pCR for TR28.844 Add charging scenarios and key issues for Edge Computing via satellite backhaul**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-234489**.

**S5-234489 pCR for TR28.844 Add charging scenarios and key issues for Edge Computing via satellite backhaul**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

(Replaces S5-234345)

**Decision:** The document was **approved**.

**S5-234346 pCR for TR28.844 Add charging scenarios and key issues for UE-to-UE communications via satellite**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-234490**.

**S5-234490 pCR for TR28.844 Add charging scenarios and key issues for UE-to-UE communications via satellite**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

(Replaces S5-234346)

**Decision:** The document was **approved**.

**S5-234347 TR28.844 Add solutions for satellite backhaul charging**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S5-234491**.

**S5-234491 TR28.844 Add solutions for satellite backhaul charging**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: CATT*

(Replaces S5-234347)

**Decision:** The document was **approved**.

**S5-234435 Rel-18 pCR 28.844 Satellite backhaul Adding new use case**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

late submission

**Decision:** The document was **revised to S5-234492**.

**S5-234492 Rel-18 pCR 28.844 Satellite backhaul Adding new use case**

*Type: pCR For: Approval  
 28.844 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-234435)

**Decision:** The document was **approved**.

**S5-234450 TR 28.844 v0.3.0 on Study on charging aspects of satellite in the 5G System (5GS)**

*Type: draft TR For: Agreement  
 28.844 v0.3.0  
 Source: CICT*

**Discussion:**

for email agreement

**Decision:** The document was **email agreement**.

## 8 Any Other Business

SA5 chair: indicative show of hands among present & remote delegates (1 hand per company) for 2024 and onwards regarding preferred SA5 f2f/e-meetings policy:

option 1: 6 f2f-meetings per year: 14

like: Ericsson, Verizon, Huawei, Samsung, Telefonica, ZTE, DT, NEC, Matrixx, Vodafone, CMCC, China Unicom, China Telecom, CATT

option 2: mix of f2f (5x) and e-meetings (1x): 5

like: Nokia, China Telecom, CMCC, NTT DOCOMO, CATT

option 3: mix of f2f (4x) and e-meetings (2x): 4

like: Nokia, Intel, NTT DOCOMO, China Telecom

deadlines for all email discussions:

Mon 29.05.23 22:00 UTC start

Thu 01.06.23 22:00 UTC end of review

Fri 02.06.23 22:00 UTC Tdocs have to be provided to MCC

## 9 Closing of the meeting

SA5 Chair Thomas Tovinger thanked the delegates, the SA5 leadership team, the host and MCC and closed the meeting SA5 #149 at 17:30 CEST.

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S5-233800 | Agenda of SA5 #149 in Berlin, Germany, held 22-26.05.2023 | WG Chair | approved |  |  |
| S5-233801 | IPR and legal declaration | WG Chair | noted |  |  |
| S5-233802 | Report from last SA5 meeting | MCC | approved |  |  |
| S5-233803 | Post e-meeting email approval status | WG Chair | available |  |  |
| S5-233804 | OAM&P action list | WG Vice Chair (Huawei) | noted |  |  |
| S5-233805 | agenda\_with\_Tdocs\_sequence\_proposal\_OAM | WG Vice Chair (Huawei) | noted |  |  |
| S5-233806 | OAM Exec Report | WG Vice Chair (Huawei) | noted |  |  |
| S5-233807 | OAM Chair notes | WG Chair | noted |  |  |
| S5-233808 | CH agenda and time plan | WG vice Chair (Matrixx Software) | revised |  | S5-234443 |
| S5-233809 | Collection of useful endorsed document and external communication documents | WG vice Chair (Matrixx Software) | withdrawn |  |  |
| S5-233810 | Charging exec report | WG vice Chair (Matrixx Software) | noted |  |  |
| S5-233811 | SA5 working procedures | WG Chair | noted |  |  |
| S5-233812 | Collection of Rel-18 3GPP SA5 OAM WoP | WG Vice Chair (Huawei) | noted |  |  |
| S5-233813 | Living document for stage 2-3 alignment | WG Chair | noted |  |  |
| S5-233814 | Process for management of draft TS-TRs | WG Chair | noted |  |  |
| S5-233815 | SA5 meeting calendar | WG Chair | noted |  |  |
| S5-233816 | Time Plan for OAM&P sessions | WG Chair | noted |  |  |
| S5-233817 | Allow YANG anydata | Ericsson Hungary Ltd | agreed |  |  |
| S5-233818 | Allow YANG anydata | Ericsson Hungary Ltd | agreed |  |  |
| S5-233819 | Netconf with-defaults | Ericsson Hungary Ltd | revised |  | S5-234747 |
| S5-233820 | Netconf with-defaults | Ericsson Hungary Ltd | revised |  | S5-234746 |
| S5-233821 | Indicate missed data change notifications | Ericsson Hungary Ltd | not pursued |  |  |
| S5-233822 | DP on FM restructuring of TS 28-545 | Ericsson Hungary Ltd | revised |  | S5-234507 |
| S5-233823 | pCR 28.831 Add updates and conclusion for createMOI | Ericsson Hungary Ltd | merged |  |  |
| S5-233824 | pCR 28.831 Single Alarm Subscription Key Issue, Requirement and Solution | Ericsson Hungary Ltd | merged |  |  |
| S5-233825 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | revised |  | S5-234748 |
| S5-233826 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | revised |  | S5-234749 |
| S5-233827 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | revised |  | S5-234750 |
| S5-233828 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | revised |  | S5-234751 |
| S5-233829 | China Telecom inputs to SA5 Collection of Rel-19 potential topics for SA workshop preparation | China Telecom Corporation Ltd. | merged |  |  |
| S5-233830 | New WID on network slice management capability exposure | Alibaba Group, AsiaInfo, China mobile, China Unicom | noted | S5-232812 |  |
| S5-233831 | Reply LS on 3GPP work on Energy Efficiency | C1-232650 | noted |  |  |
| S5-233832 | Reply LS on 3GPP work on Energy Efficiency | C3-231470 | noted |  |  |
| S5-233833 | Withdrawal of ETSI GS NFV-MAN 001 | ETSI ISG NFV | noted |  |  |
| S5-233834 | Reply LS on Approval of eQoE CRs for NR | R2-2304401 | postponed |  |  |
| S5-233835 | LS on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload | R3-232047 | postponed |  |  |
| S5-233836 | Reply LS on introduction of a new attribute ""Only Resource Coordination"" to support source coordination between LTE and NR SA | R3-232051 | replied to |  |  |
| S5-233837 | LS on MDT measurements collection in MR-DC | R3-232070 | postponed |  |  |
| S5-233838 | LS on collecting QoE measurements per MBS service area and MBS session ID | R3-232079 | postponed |  |  |
| S5-233839 | LS for improved KPIs involving end-to-end data volume transfer time analytics | S2-2304067 | postponed |  | - |
| S5-233840 | LS on charging aspects of AI/ML traffic | S2-2305426 | postponed |  |  |
| S5-233841 | LS on OAM input data for QoS Sustainability Analytics | S2-2306095 | postponed |  |  |
| S5-233842 | LS on initiation of new work item ITU-T Y.REOUPF: ""Resource efficiency optimization for managing user plane function in IMT-2020 networks and beyond"" | ITU-T SG13 | noted |  |  |
| S5-233843 | LS on Y.3159 ""Framework for classifying network slice level in future networks including IMT-2020"" | ITU-T SG13 | replied to |  |  |
| S5-233844 | LS on Information and request of advice on the SG13 plan to initiate a new work item on ""Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective, | ITU-T SG13 | replied to |  |  |
| S5-233845 | ZSM work on AI enablers and intent-driven autonomous networks | ETSI ZSM | postponed |  |  |
| S5-233846 | Reply LS on Enhancement on Charging Identifier Uniqueness Mechanism | C4-225411 | replied to |  |  |
| S5-233847 | 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 |  |  |
| S5-233848 | Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S3-231400 | noted |  |  |
| S5-233849 | LS on NCR Solutions | R3-225253 | postponed |  |  |
| S5-233850 | LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 | O-RAN | replied to |  |  |
| S5-233851 | 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 | noted |  |  |
| S5-233852 | LS to SA5 on E2E Network Slicing Requirements | GSMA | noted |  |  |
| S5-233853 | LS on Slice based (wholesale) differentiation and charging in roaming | GSMA | replied to |  |  |
| S5-233854 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | SA5 VC (Huawei), SA5 Chair, SA5 VC (Matrixx) | revised | S5-233319 | S5-234495 |
| S5-233855 | Discussion paper on Proposal for document structure | Nokia Italy | noted |  |  |
| S5-233856 | Rel-18 Input to draft CR TS 28.105 AI/ML inference abstract performance | Nokia, Nokia Shanghai Bell | revised |  | S5-234595 |
| S5-233857 | Rel-18 Input to draft CR TS 28.105 AI/ML inference performance evaluation | Nokia, Nokia Shanghai Bell | revised |  | S5-234596 |
| S5-233858 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for joint testing of multiple ml entities | Nokia, Nokia Shanghai Bell | revised |  | S5-234654 |
| S5-233859 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Capabilities of ML Entities | Nokia, Nokia Shanghai Bell | revised |  | S5-233878 |
| S5-233860 | Rel18 Input to draft CR TS28.105 Use case and requirements for sharing information for Orchestrating AI/ML Inference | Nokia, Nokia Shanghai Bell | revised |  | S5-234652 |
| S5-233861 | Rel18 Input to draft CR TS28.105 Use case and requirements for Orchestrating AI/ML Inference | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233862 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for ML Testing | Nokia, Nokia Shanghai Bell | revised |  | S5-234653 |
| S5-233863 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for ML knowledge-based transfer Learning | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233864 | Rel-18 Input to draft CR TS 28.105 solution for ML inference emulation | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-233865 | Rel-18 CR TS 28.105 Use case and requirements for ML Inference emulation | Nokia, Nokia Shanghai Bell | revised |  | S5-234655 |
| S5-233866 | Rel-18 Input to draft CR TS 28.105 AI/ML inference performance indicators selection | Nokia, Nokia Shanghai Bell | revised |  | S5-234597 |
| S5-233867 | Rel-18 Input to draft CR TS 28.105 AI/ML training performance management | Nokia, Nokia Shanghai Bell | revised |  | S5-234598 |
| S5-233868 | Rel-18 Input to draft CR TS 28.105 solution for ML Testing | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-233869 | Rel-18 Input to draft CR TS 28.105 solution for ML inference history | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233870 | Rel-18 Input to draft CR TS 28.105 solution for ML abstract behavior | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233871 | Rel18 CR 28312 Use case and Requirements Intent-driven Closed Loop control | Nokia, Nokia Shangai Bell | revised |  | S5-234668 |
| S5-233872 | Rel18\_CR\_28312 Use case and Requirements on Testing Intent MnS Capabilities | Nokia, Nokia Shangai Bell | revised |  | S5-234760 |
| S5-233873 | Rel18\_CR\_28312 Use case and Requirements on Mapping Intents to ML capabilities | Nokia, Nokia Shangai Bell | revised |  | S5-234761 |
| S5-233874 | Rel18\_CR\_28312 Use case and Requirements on Intent-driven SON orchestration | Nokia, Nokia Shangai Bell | not pursued |  |  |
| S5-233875 | Rel18 CR 28312 Use case and Requirements on expectation for network optimization | Nokia, Nokia Shangai Bell | revised |  | S5-234675 |
| S5-233876 | Rel18 CR 28312 Use case and Requirements on Intent conflicts | Nokia, Nokia Shangai Bell | merged |  |  |
| S5-233877 | Rel-18 CR TS 28.312 information model change to support intent priorities | Nokia, Nokia Shangai Bell, DOCOMO | revised |  | S5-234671 |
| S5-233878 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for update of ML Entities | Nokia, Nokia Shanghai Bell | revised | S5-233859 | S5-234649 |
| S5-233879 | input to SA5 Collection of Rel-19 potential topics for SA workshop preparation | Nokia Italy | merged |  |  |
| S5-233880 | Input on trustworthiness to SA5 Collection of Rel-19 potential topics for SA workshop preparation | Nokia Italy | merged |  |  |
| S5-233881 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | withdrawn |  |  |
| S5-233882 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | revised | S5-233071 | S5-234752 |
| S5-233883 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | revised | S5-233072 | S5-234753 |
| S5-233884 | Rel-16 CR Correct inconsistency of Distinguish Name (3GPP, YANG) | Dell Technologies | revised |  | S5-234038 |
| S5-233885 | Rel-18 pCR TR 28.831 Add a potential solution for KI for Advertising NRM properties by the MnS producer | Nokia, Nokia Shanghai Bell | revised |  | S5-234529 |
| S5-233886 | Rel-18 pCR TR 28.831 Add a new key issue for Advertising notifications supported by MnS producer | Nokia, Nokia Shanghai Bell | revised | S5-233268 | S5-234530 |
| S5-233887 | Update NG-RAN data EE KPI definition with reference to TS 28.554 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233888 | Update NG-RAN data EE KPI definition with reference to TS 28.554 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233889 | Update NG-RAN data EE KPI definition with reference to TS 28.554 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233890 | Remove redundant Network Slice EE KPI definition | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233891 | Remove redundant Network Slice EE KPI definition | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233892 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | revised | S5-233080 | S5-234788 |
| S5-233893 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | revised | S5-233081 | S5-234789 |
| S5-233894 | Add SLS attributes availability and jitter to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS | not pursued |  |  |
| S5-233895 | Add SLS attributes availability and jitter to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS | not pursued |  |  |
| S5-233896 | Add stage 3 for data type AvailabilityStatus | Nokia, Nokia Shanghai Bell | agreed | S5-232105 |  |
| S5-233897 | Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations | Nokia, Nokia Shanghai Bell, Ericsson | revised | S5-232102 | S5-234586 |
| S5-233898 | Update Procedure of Network Slice Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | revised |  | S5-234587 |
| S5-233899 | Update Procedure of Network Slice Instance Deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | revised |  | S5-234588 |
| S5-233900 | Update Procedure of Network Slice Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | revised |  | S5-234589 |
| S5-233901 | Update Procedure of Network Slice Subnet Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | revised |  | S5-234590 |
| S5-233902 | Update Procedure of network slice subnet instance deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | revised |  | S5-234591 |
| S5-233903 | Update Procedure of Network Slice Subnet Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | revised |  | S5-234592 |
| S5-233904 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | revised |  | S5-234790 |
| S5-233905 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | revised |  | S5-234791 |
| S5-233906 | Align figure with description in Procedure of NF instance deletion | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233907 | Align figure with description in Procedure of NF instance deletion | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233908 | Align figure with description in Procedure of NF instance modification | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233909 | Align figure with description in Procedure of NF instance modification | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233910 | Rel-18 CR TS 28.312 Clarify how generic provisioning MnS can be used for intent lifecycle management | Huawei,Nokia Deutsche Telekom | revised |  | S5-234660 |
| S5-233911 | Rel-18 CR TS 28.312 Add missing yaml document examples for scenario specific intent instance | Huawei,Nokia,Deutsche Telekom | agreed |  |  |
| S5-233912 | Rel-18 CR TS 28.312 Add use case and requirements for intent driven approach for RAN energy saving | Huawei,Deutsche Telekom | agreed |  |  |
| S5-233913 | Add use case and requirements for intent driven approach for radio network capacity optimization | Huawei,Deutsche Telekom | revised |  | S5-234661 |
| S5-233914 | Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining | Huawei,Deutsche Telekom | revised |  | S5-234715 |
| S5-233915 | Add general concept and requirements for intent report | Huawei, Deutsche Telekom | revised |  | S5-234664 |
| S5-233916 | Discussion on ML Entity modelling | Nokia, Nokia Shanghai Bell | revised |  | S5-234656 |
| S5-233917 | pCR TR28.837 Rapporteur clean up | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-233918 | Presentation sheet of TR 28.837 for SA Approval | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-233919 | Rel-16 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233920 | Rel-17 CR TS 28.104 Correcting attribute type for Recommended 3GPP action and MDA type for Paging Use case | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233921 | Rel-17 CR TS 28.104 Replacing MDAEntity with ManagedEntity | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233922 | Rel-17 CR TS 28.105 Correcting the attribute properties | Nokia, Nokia Shanghai Bell | revised |  | S5-234779 |
| S5-233923 | Rel-17 CR TS 28.622 Correcting attributes properties for Excess Packet Delay Threshold | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233924 | Rel-17 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions | Nokia, Nokia Shangai Bell | not pursued |  |  |
| S5-233925 | Rel-18 Input to draft CR TS 28.104 Enhancing MDARequest to request for analytics infinitely | Nokia, Nokia Shanghai Bell | revised |  | S5-234583 |
| S5-233926 | Rel-18 Input to draft CR TS 28.104 Filtering MDA Recommendations | Nokia, Nokia Shanghai Bell, Samsung R&D Institute UK | revised |  | S5-234585 |
| S5-233927 | Rel-18 Input to draft CR TS 28.104 Prediction of PMs | Nokia, Nokia Shanghai Bell | revised |  | S5-234584 |
| S5-233928 | Rel-18 CR TS 28.105 Modelling ML Entity | Nokia, Nokia Shanghai Bell | revised |  | S5-234657 |
| S5-233929 | Rel-18 CR TS 28.550 Enhance the streaming format of PM | Nokia, Nokia Shanghai Bell | revised |  | S5-234711 |
| S5-233930 | Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement | Nokia, Nokia Shanghai Bell | revised |  | S5-234136 |
| S5-233931 | Rel-18 CR TS 28.552 Addition of “Distribution of Scheduled PUSCH/PDSCH PRBs based on MIMO Layers Coverage Map” measurement | Nokia, Nokia Shanghai Bell | revised |  | S5-234128 |
| S5-233932 | Rel-18 CR TS 28.552 Add Reference for “DL PDCP buffered throughput per UE per DRB” | Nokia, Nokia Shanghai Bell | revised |  | S5-234701 |
| S5-233933 | Rel-18 CR TS 28.622 Adding the missing definition of the attribute excessPacketDelayThreshold | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233934 | Rel-18 CR TS 28.622 Correcting attributes properties for Excess Packet Delay Threshold | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233935 | Rel-18 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233936 | Rel-18 CR TS 28.623 Correcting the min and max Items possible for fiveQIValue attribute in Stage 3 | Nokia, Nokia Shanghai Bell | revised |  | S5-234805 |
| S5-233937 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for Efficient ML entity re-training | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233938 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for ML Entity modularity | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-233939 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for ML entity validation performance reporting | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-233940 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for producer-initiated ML entity re-training | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-233941 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Capabilities of ML Entities | Nokia, Nokia Shanghai Bell | revised |  | S5-234807 |
| S5-233942 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Context of ML Entities | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233943 | Revised SID on Management of TraceMDT Phase 2 | Nokia, Nokia Shanghai Bell | revised |  | S5-234498 |
| S5-233944 | Revised WID on Management of Trace/MDT phase 2 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233945 | Correct the wrong and missing clauses of reference | AsiaInfo | agreed |  |  |
| S5-233946 | Add the use cases for Intent containing an expectation for delivering 5GC network | AsiaInfo | merged |  |  |
| S5-233947 | Rel18 Input To DraftCR\_28105 Coordination between the ML capabilities | Nokia, Nokia Shanghai Bell, TELUS | revised |  | S5-234798 |
| S5-233948 | Rel18 Input To DraftCR\_28105 Event data for ML training | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233949 | Rel18 Input To DraftCR\_28105 Measurement data correlation analytics for ML training | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233950 | Rel18 Input To DraftCR\_28105 Training data effectiveness reporting and analytics | Nokia, Nokia Shanghai Bell | revised |  | S5-234799 |
| S5-233951 | Rel18 Input To DraftCR\_28105 ML Inference activation | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233952 | Rel18 Input To DraftCR\_28105 ML Inference history | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233953 | Rel18 Input To DraftCR\_28105 ML Inference Partial activation | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233954 | Rel18 Input To DraftCR\_28105 ML Inference policy-based activation | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-233955 | pCR 28.841 Rapporteur clean up | China Unicom | approved |  |  |
| S5-233956 | Add the use cases for intent containing an expectation on 5GC network performance to be assured | AsiaInfo | merged |  |  |
| S5-233957 | Presentation sheet of TR 28.841 for Approval | China Unicom | approved |  |  |
| S5-233958 | Rel18 CR TS28.541 NRM enhancements for NRFFunction | Nokia, Nokia Shanghai Bell | revised |  | S5-234735 |
| S5-233959 | Rel18 CR TS28.541 NRM enhancements for CHFFunction | Nokia, Nokia Shanghai Bell | revised |  | S5-234738 |
| S5-233960 | Rel18 CR TS28.541 NRM enhancements for MFAFFunction | Nokia, Nokia Shanghai Bell | revised |  | S5-234739 |
| S5-233961 | Rel18 CR TS28.541 NRM enhancements for DCCFunction | Nokia, Nokia Shanghai Bell | agreed |  | - |
| S5-233962 | Rel18 CR TS28.541 NRM enhancements for class diagram | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233963 | TS28.541 Rel17 Correction to dCHOControl by adding definition to attribute properties table | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233964 | Correction to dCHOControl by adding definition to attribute properties table | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233965 | TS28.541 Rel16 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | revised |  | S5-234801 |
| S5-233966 | TS28.541 Rel17 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | revised |  | S5-234802 |
| S5-233967 | TS28.541 Rel18 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | revised |  | S5-234803 |
| S5-233968 | TS28.541 Rel18 Corrections to missing properties for a few attributes | Nokia, Nokia Shanghai Bell | agreed |  | - |
| S5-233969 | Rel18 CR TS28.541 Improve EP\_Transport model to clarify connection point info | Nokia, Nokia Shanghai Bell, Ericsson, TELUS, KDDI, Verizon | revised |  | S5-234742 |
| S5-233970 | TS28.541 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | revised |  | S5-234555 |
| S5-233971 | TS28.541 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | revised |  | S5-234676 |
| S5-233972 | TS28.541 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | revised |  | S5-234677 |
| S5-233973 | TS28.622 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233974 | TS28.622 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233975 | TS28.622 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233976 | TS28.623 Rel17 correction to stage 3 implementation for MnSInfo and MnsRegistry | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233977 | TS28.623 Rel18 correction to stage 3 implementation for MnSInfo and MnsRegistry | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233978 | TS28.622 Rel16 correction to missing Notification and Attribute constraints clauses | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233979 | TS28.622 Rel17 correction to missing Notification and Attribute constraints clauses | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233980 | TS28.622 Rel18 correction to missing Notification and Attribute constraints clauses | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233981 | TS28.532 Rel16 Add missing definition of the JSON Patch document | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233982 | TS28.532 Rel17 Add missing definition of the JSON Patch document | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233983 | TS28.532 Rel16 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | revised |  | S5-234808 |
| S5-233984 | TS28.532 Rel17 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | revised |  | S5-234809 |
| S5-233985 | TS 28.532 Rel17 resources-edgeNrm is missing in resource schema | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-233986 | Update Roaming Profile in case of inter plmn N2 HO (Home Routed case) | Cisco Systems France | revised |  | S5-234090 |
| S5-233987 | Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance | AsiaInfo | revised |  | S5-234666 |
| S5-233988 | Add new capabilities for intent driven management for Intent fulfilment feasibility checks | AsiaInfo | revised |  | S5-234667 |
| S5-233989 | pCR 28.903 Add new requirements and solution for federation management | AsiaInfo | revised |  | S5-234570 |
| S5-233990 | pCR 28.903 Add new requirements and solution for federated EAS deployment and termination | AsiaInfo | merged |  |  |
| S5-233991 | pCR 28.903 Modify requirements and solution for Application Resource | AsiaInfo | revised |  | S5-234576 |
| S5-233992 | Rel-17 CR TS 28.312 Correct the supported qualifier for ExpectationObject and allowed value for contextCondition | Huawei,Nokia,Deutsche Telekom, CMCC, ZTE | revised |  | S5-234780 |
| S5-233993 | Rel-17 CR TS 28.312 Update IntentNRM YAML file to align with stage2 | Huawei | agreed |  |  |
| S5-233994 | Rel-17 CR TS 28.312 Separate YAML file for generic Information model definition and scenario specific IntentExpectation definition | Huawei | revised |  | S5-234781 |
| S5-233995 | Rel-17 CR TS 28.312 Correct the errors in Table 6.2.2.2-1 | Huawei | revised |  | S5-234782 |
| S5-233996 | Rel-17 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | revised |  | S5-234792 |
| S5-233997 | Rel-18 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | revised |  | S5-234793 |
| S5-233998 | Rel-17 CR TS 28.541 Correct issues for NR NRM | Huawei | agreed |  |  |
| S5-233999 | Rel-18 CR TS 28.541 Correct issues for NR NRM | Huawei | agreed |  |  |
| S5-234000 | Rel-17 CR TS 28.541 Update SliceNRM YAML to align with stage2 | Huawei | agreed |  |  |
| S5-234001 | Rel-18 CR TS 28.541 Update SliceNRM YAML to align with stage2 | Huawei | agreed |  |  |
| S5-234002 | Add missing supporting management capabilities for several control NRM Fragments | Huawei | not pursued | S5-232179 |  |
| S5-234003 | Add missing supporting management capabilities for several control NRM Fragments | Huawei | not pursued | S5-232180 |  |
| S5-234004 | Rel-16 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | revised |  | S5-234754 |
| S5-234005 | DP on CCS Definition and Deployment Models | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-234006 | Rel-18 CR TS 32.240 Deployment Models | Nokia, Nokia Shanghai Bell | revised |  | S5-234475 |
| S5-234007 | Rel-18 pCR 28.826 Solution #1.15 Trigger | Nokia. Nokia Shanghai Bell | revised |  | S5-234476 |
| S5-234008 | pCR TR 28.840 Update of the Overview | Nokia, Nokia Shanghai Bell | revised |  | S5-234632 |
| S5-234009 | TR 28.840 v0.3.0 on Study on CHF segmentation | Nokia, Nokia Shanghai Bell | email agreement |  |  |
| S5-234010 | pCR TR 28.840 Abbreviations chapter Update | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-234011 | Rel-17 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | revised |  | S5-234755 |
| S5-234012 | Rel-16 CR 32.158 Correct JSON schema fragment for JSON Patch documents | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234013 | Rel-17 CR 32.158 Correct JSON schema fragment for JSON Patch documents | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234014 | Rel-16 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | revised |  | S5-234756 |
| S5-234015 | Rel-17 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | revised |  | S5-234757 |
| S5-234016 | Clarify network slicing provisioning use case | Ericsson | revised | S5-233086 | S5-234794 |
| S5-234017 | Clarify network slicing provisioning use case | Ericsson | revised | S5-233087 | S5-234795 |
| S5-234018 | Rel-16 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shanghai Bell | revised |  | S5-234758 |
| S5-234019 | Clarify network slicing provisioning use case | Ericsson | revised | S5-233088 | S5-234796 |
| S5-234020 | Clarify network slicing provisioning use case | Ericsson | revised | S5-233089 | S5-234797 |
| S5-234021 | Rel-17 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shnaghai Bell | revised |  | S5-234759 |
| S5-234022 | Rel-16 CR 28.532 Correct media types used with HTTP Patch | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234023 | Rel-17 CR 28.532 Correct media types used with HTTP Patch | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234024 | Rel18 CR 28312 Use case and Requirements exposing Intent-Logic | Nokia, Nokia Shangai Bell | not pursued |  |  |
| S5-234025 | Rel-15 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234026 | Rel-16 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234027 | Rel-17 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234028 | Rel-18 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234029 | Rel-17 CR TS 28.312 Intent Context and Expectation object support for multiple data types | Nokia, Nokia Shanghai Bell | revised |  | S5-234783 |
| S5-234030 | Rel-16 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | revised |  | S5-234762 |
| S5-234031 | Rel-17 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | revised |  | S5-234763 |
| S5-234032 | Rel-18 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | revised |  | S5-234764 |
| S5-234033 | Clarify AlarmList locking | Ericsson Hungary Ltd | revised |  | S5-234765 |
| S5-234034 | Clarify AlarmList locking | Ericsson Hungary Ltd | revised |  | S5-234766 |
| S5-234035 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | revised |  | S5-234767 |
| S5-234036 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | revised |  | S5-234768 |
| S5-234037 | Rel-17 CR TS 28.105 Grammatical Corrections | Nokia, Nokia Shanghai Bell | revised |  | S5-234837 |
| S5-234038 | Rel-16 CR Correct inconsistency of Distinguish Name (3GPP, YANG) | Dell Technologies | not pursued | S5-233884 |  |
| S5-234039 | Correction to template for NRM description related to Notifications | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234040 | Correction to template for NRM description related to Notifications | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234041 | Correction to template for NRM description related to Notifications | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S5-234042 | Correct createMOI response description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234043 | Correct createMOI response description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234044 | Input to Draft CR Rel-18 28.104 Add MDA capability for resource utilization analysis | Intel, NEC | revised |  | S5-234818 |
| S5-234045 | Input to Draft CR Rel-18 28.104 Add recommended actions for non-3GPP operations | Intel, NEC | revised |  | S5-234582 |
| S5-234046 | Input to DraftCR 28.105 Add terms related to ML training | Intel, NEC | revised |  | S5-234819 |
| S5-234047 | Input to DraftCR 28.105 Add AI-ML workflow | Intel, NEC | revised |  | S5-234659 |
| S5-234048 | Input to DraftCR 28.105 Add UC and requirements for ML validation | Intel, NEC | revised |  | S5-234820 |
| S5-234049 | Input to DraftCR 28.105 Enhance the NRMs to support ML validation | Intel, NEC | revised |  | S5-234821 |
| S5-234050 | Input to DraftCR 28.105 Enhance the ML training to include re-training | Intel, NEC | revised |  | S5-234650 |
| S5-234051 | Input to DraftCR 28.105 Add UC and requirements for ML entity joint training | Intel, NEC | revised |  | S5-234658 |
| S5-234052 | Input to DraftCR 28.105 Add NRMs for ML entity joint training | Intel, NEC | noted |  |  |
| S5-234053 | Input to DraftCR 28.105 Add UC and requirements for ML entity testing | Intel, NEC | merged |  |  |
| S5-234054 | Input to DraftCR 28.105 Add NRMs for ML entity testing | Intel, NEC | revised |  | S5-234822 |
| S5-234055 | Input on SA to SA5 Collection of Rel-19 potential topics on Data Management Phase 2 for SA workshop preparation | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234056 | New Work Item on Network and Service Operations for Energy Utilities | Samsung, EUTC, EDF, BMWK, Deutsche Telekom, Huawei, Ericsson, NOVAMINT, Vodafone, China Mobile | revised |  | S5-234825 |
| S5-234057 | Rel-18 NSOEU TS 28.XYZ pCR Scope | Samsung | not treated |  |  |
| S5-234058 | Collection of useful endorsed document and external communication documents | WG Vice Chair (Huawei) | noted | S5-233527 |  |
| S5-234059 | Skeleton of 3GPP TS 28.XYZ Network and Services Operations for Energy Utilities | Samsung (Rapporteur) | not treated |  |  |
| S5-234060 | Rel-17 CR TS28.105 ML batchTraining | Nokia Germany | not pursued |  |  |
| S5-234061 | Rel-18 pCR 28.829 6.3.3 Requirements clarification | Samsung, Nokia | revised |  | S5-234539 |
| S5-234062 | Rel-18 & Rel-19 time plan proposal for OAM | SA5 Vice chair (Huawei),SA5 Chair | endorsed | S5-233555 |  |
| S5-234063 | Rel-18 pCR 28.829 7.1.2.1 Solution #1 correction | Samsung, Nokia | revised |  | S5-234538 |
| S5-234064 | Rel-18 pCR 28.829 – Corrections | Samsung, Nokia | revised |  | S5-234541 |
| S5-234065 | Rel-18 pCR 28.829 – Clean up | Samsung, Nokia | revised |  | S5-234542 |
| S5-234066 | Presentation of Report to TSG: TR 28.829, Version 2.0.0 | Samsung (Rapporteur) | revised |  | S5-234844 |
| S5-234067 | FS\_NSOEU and NSOEU WoP | Samsung R&D Institute UK | not treated |  |  |
| S5-234068 | pCR TR 28.824 Modify conclusions and recommendations for management capability exposure in normative work | TELEFONICA S.A. | revised |  | S5-234565 |
| S5-234069 | pCR TR 28.824 Add conclusions and recommendations for NaaS ecosystem | TELEFONICA S.A. | revised |  | S5-234566 |
| S5-234070 | YANG Corrections | Ericsson Hungary Ltd | agreed |  |  |
| S5-234071 | YANG Corrections | Ericsson Hungary Ltd | agreed |  |  |
| S5-234072 | YANG Corrections | Ericsson Hungary Ltd | agreed |  |  |
| S5-234073 | YANG Corrections | Ericsson Hungary Ltd | agreed |  |  |
| S5-234074 | Discussion paper on separate yaml file for different control NRM fragments in TS 28.623 | Huawei | noted |  |  |
| S5-234075 | Rel-18 CR TS 28.623 separate yaml file for different control NRM fragment | Huawei | not pursued |  |  |
| S5-234076 | pCR TR28.836 Add solution for intent expectation for network slice delivering and assurance | Huawei, Deutsche Telekom,China Mobile | revised | S5-233280 | S5-234736 |
| S5-234077 | Discussion paper on Using Forge-Git as the primary storage for Code | Ericsson Hungary Ltd | revised | S5-232751 | S5-234494 |
| S5-234078 | Rel-18 CR TS28.531 Update the network slice (subnet) instance allocation procedures to support async mode | Huawei, Telefonica, Deutsche Telekom,Samsung | merged |  |  |
| S5-234079 | pCR TR 28.842 add issue and potential solutions for external data management | Huawei, Deutsche Telekom | revised | S5-233281 | S5-234558 |
| S5-234080 | pCR TR 28.824 Remove EN in clause 4.1.4.5 | Huawei | approved |  |  |
| S5-234081 | pCR TR 28.824 Remove obsolete ENs | Huawei | approved |  |  |
| S5-234082 | pCR TR 28.824 Update exposed MnS discovery service | Huawei | approved |  |  |
| S5-234083 | pCR TR 28.824 Update scope clause | Huawei | revised |  | S5-234564 |
| S5-234084 | Huawei inputs to SA5 Collection of Rel-19 OAM potential topics for SA workshop preparation | HuaWei Technologies Co., Ltd | merged |  |  |
| S5-234085 | Rel-18 CR TS 28.312 add procedure of intent conflict resolution based on intent preemption | NTT DOCOMO | not pursued |  | - |
| S5-234086 | Rel-18 CR TS 28.552 Add MA PDU session creation measurements for ATSSS | China Telecomunication Corp.,Intel | withdrawn |  |  |
| S5-234087 | Rel-18 CR TS 28.312 information model change to support intent preemption attributes | NTT DOCOMO | not pursued |  | - |
| S5-234088 | Rel-18 CR TS 28.552 Add MA PDU session creation measurements for ATSSS | China Telecomunication Corp.,Intel | agreed |  |  |
| S5-234089 | Rel-18 CR TS 28.552 Add Cross Link Interference related performance measurement | China Telecomunication Corp. | revised |  | S5-234703 |
| S5-234090 | Update Roaming Charing Profile in case of I-SMF insertion or I-SMF Change (Home Routed case) | Cisco Systems France | revised | S5-233986 | S5-234487 |
| S5-234091 | pCR 28.903 editorial correction | NTT DOCOMO INC. | approved |  |  |
| S5-234092 | Rel-18 CR 32.255 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | revised |  | S5-234462 |
| S5-234093 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | revised |  | S5-234463 |
| S5-234094 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | revised |  | S5-234464 |
| S5-234095 | Rel-18 CR 32.256 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | revised |  | S5-234465 |
| S5-234096 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | revised |  | S5-234466 |
| S5-234097 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | revised |  | S5-234467 |
| S5-234098 | R17 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT | China Telecom Corporation Ltd., Huawei | not pursued |  |  |
| S5-234099 | R18 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT | China Telecom Corporation Ltd., Huawei | revised |  | S5-234804 |
| S5-234100 | Add error handling in MDA report | Huawei | not pursued |  |  |
| S5-234101 | Correction of attributes in MDAOutputs dataType | Huawei | revised |  | S5-234775 |
| S5-234102 | Remove duplicate mdaType in MDA report | Huawei | agreed |  |  |
| S5-234103 | Rel-16 CR 28.532 clarification on notification target | Huawei | revised |  | S5-234810 |
| S5-234104 | Clarification on notification target | Huawei | agreed |  |  |
| S5-234105 | Correct EAS to connect to UPF procedure | Huawei | revised |  | S5-234815 |
| S5-234106 | Correction of ECM NRM | Huawei | agreed |  |  |
| S5-234107 | Correction of EcmConnectionInfo | Huawei | not pursued |  |  |
| S5-234108 | Correct EAS to connect to UPF procedure | Huawei | revised |  | S5-234816 |
| S5-234109 | Correction of ECM NRM | Huawei | agreed |  |  |
| S5-234110 | Correction of EcmConnectionInfo | Huawei | not pursued |  |  |
| S5-234111 | Add information elements related to fault management | Huawei | revised |  | S5-234712 |
| S5-234112 | Add information elements related to service experience analysis | Huawei | revised |  | S5-234713 |
| S5-234113 | Add use case of MDA assisted virtual resource utilization analysis in CN domain | Huawei | revised |  | S5-234787 |
| S5-234114 | Describe analytics relationship to control loop | Huawei | not pursued |  |  |
| S5-234115 | Add concept of intent validation | Huawei | revised |  | S5-234674 |
| S5-234116 | Adding new UC for 5GC NF delivery | Huawei | merged |  |  |
| S5-234117 | Rel-18 CR 28.312 adding new UC for 5GC performace assurance | Huawei | merged |  |  |
| S5-234118 | Adding new UC for 5GC subnetwork delivery | Huawei | revised |  | S5-234662 |
| S5-234119 | Update description related to intent driven closed loop | Huawei | not pursued |  | - |
| S5-234120 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for SMF | Huawei | revised |  | S5-234690 |
| S5-234121 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for UPF | Huawei | revised |  | S5-234691 |
| S5-234122 | pCR 28.836 Add conclusion and recommendation for network slice service assurance | Huawei | revised |  | S5-234526 |
| S5-234123 | pCR 28.903 Federated EAS deployment and termination | Huawei | revised |  | S5-234575 |
| S5-234124 | pCR 28.903 Federated EAS resource reservation management | Huawei | revised |  | S5-234571 |
| S5-234125 | pCR 28.903 solution for query available edge services | Huawei | revised |  | S5-234577 |
| S5-234126 | pCR 28.903 update description of GSMA OPG | Huawei | revised |  | S5-234578 |
| S5-234127 | Presentation sheet of TR 28.903 for SA Approval | Huawei | approved |  |  |
| S5-234128 | Rel-18 CR TS 28.552 Addition of “Distribution of Scheduled PUSCH/PDSCH PRBs based on MIMO Layers Coverage Map” measurement | Nokia, Nokia Shanghai Bell | agreed | S5-233931 |  |
| S5-234129 | pCR TR 28.913 Add key issues for Area based energy saving with AI technology | Huawei | revised |  | S5-234559 |
| S5-234130 | Rel-18 CR TS 28.105 Add use case and requirement for ML entities updating initiated by producer | Huawei | merged |  |  |
| S5-234131 | Rel-18 CR TS 28.105 Add use case and requirement for AIML update control | Huawei | merged |  |  |
| S5-234132 | Rel-18 CR TS 28.105 Add use case and requirement for AIML performance evaluation in inference phase | Huawei | merged |  |  |
| S5-234133 | Rel-18 CR TS 28.105 Add use case and requirements for ML entity configuration initiated by producer | Huawei | withdrawn |  |  |
| S5-234134 | Reply LS on MDT measurements collection in MR-DC | Huawei | revised |  | S5-234537 |
| S5-234135 | pCR TS 28.317 Add concept, use case and requirements for network configuration data handling | China Mobile, Huawei | withdrawn |  |  |
| S5-234136 | Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement | Nokia, Nokia Shanghai Bell | revised | S5-233930 | S5-234138 |
| S5-234137 | pCR TS 28.317 Add concept, use case and requirements for network configuration data handling | China Mobile, Huawei | revised | S5-232905 | S5-234580 |
| S5-234138 | Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement | Nokia, Nokia Shanghai Bell | agreed | S5-234136 |  |
| S5-234139 | Rel-18 CR 28.541 Update NRM enhancements for NWDAFFunction | China Telecommunication | agreed |  |  |
| S5-234140 | Rel-18 CR 28.541 Add NRM enhancements for NWDAFFunction | China Telecommunication | not pursued |  | - |
| S5-234141 | Rel-18 CR 28.552 Add clause titles related to the performance measurements for NWDAF | China Telecommunication | not pursued |  |  |
| S5-234142 | Add use case of time consumption of NWDAF providing analytcis service information | China Telecom | revised |  | S5-234683 |
| S5-234143 | Rel-18 CR 28.552 Add time consumption of NWDAF providing analytcis service information | China Telecommunication | revised |  | S5-234684 |
| S5-234144 | Rel-18 CR 28.552 Add use case of measurements related to the coordination between multiple NWDAFs | China Telecommunication | agreed |  |  |
| S5-234145 | Rel-18 CR 28.552 Add measurements related to the coordination between multiple NWDAFs | China Telecommunication | revised |  | S5-234679 |
| S5-234146 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service provisioning | China Telecommunication | revised |  | S5-234685 |
| S5-234147 | Rel-18 CR 28.552 Add measurements related to the NWDAF service provisioning | China Telecommunication | revised |  | S5-234686 |
| S5-234148 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service failure | China Telecommunication | revised |  | S5-234687 |
| S5-234149 | Rel-18 CR 28.552 Add measurements related to the NWDAF service failure | China Telecommunication | revised |  | S5-234688 |
| S5-234150 | Rel-17 CR 28.541 Clarify use of V2X in service profile | L.M. Ericsson Limited, Deutsche Telekom | not pursued | S5-232358 |  |
| S5-234151 | Rel-18 CR 28.541 Clarify use of V2X in service profile | Ericsson LM, Deutsche Telekom | not pursued | S5-232363 |  |
| S5-234152 | Rel-18 CR 28.541 Remove jitter from service profile | L.M. Ericsson Limited, Deutsche Telekom | not pursued |  |  |
| S5-234153 | Add Use case of Intent driven management to express expectation of network slice health assurance | ZTE Corporation | not pursued |  | - |
| S5-234154 | Fixing documentation and allowed value bug in contextValueRange attribute | China Mobile Com. Corporation | withdrawn |  |  |
| S5-234155 | Enhancement on 6.1 supporting solution to deliver a network slice subnet | ZTE Corporation | revised |  | S5-234525 |
| S5-234156 | Rel-17 CR 28.312 Clarify the definition of intent expectation fulfilment | L.M. Ericsson Limited, Deutsche Telekom | revised |  | S5-234785 |
| S5-234157 | Clarify service support intent expectation | Ericsson, Deutsche Telekom | agreed |  |  |
| S5-234158 | Discussion paper on isolation and sharing | L.M. Ericsson Limited, Deutsche Telekom | revised |  | S5-234698 |
| S5-234159 | Rel-18 CR 28.541 Add network slice selection and sharing information | L.M. Ericsson Limited, Deutsche Telekom | not pursued |  | - |
| S5-234160 | pCR 28.836 Add alternatives and evaluation to 6.2.2 | L.M. Ericsson Limited, Deutsche Telekom | revised |  | S5-234737 |
| S5-234161 | pCR 28.836 Add benefits of intent driven management approach to network slicing | L.M. Ericsson Limited, Deutsche Telekom | revised |  | S5-234523 |
| S5-234162 | pCR 28.836 Clarify the roles in requirements clause 5.2 | L.M. Ericsson Limited, Deutsche Telekom | approved |  |  |
| S5-234163 | Rel-18 CR TS 28.312 Add general concept and requirements for intent conflict | Huawei | revised |  | S5-234670 |
| S5-234164 | pCR 28.836 Update table on classification in 4.2 and editorials in 4.3 and 4.4 | L.M. Ericsson Limited, Deutsche Telekom | approved |  |  |
| S5-234165 | Rel-17 CR 28.312 Add ValueRange type and replace the Real type | China Mobile Com. Corporation | withdrawn |  |  |
| S5-234166 | TR 28.863 Issue 3 Solution of KQIs for Video Uploading | Huawei | revised |  | S5-234567 |
| S5-234167 | LSout on Security for AI ML trustworthiness management | Nokia, Nokia Shanghai Bell | revised |  | S5-234776 |
| S5-234168 | pCR TR 28.863 Issue4 definition of Remote controll | Huawei | revised |  | S5-234568 |
| S5-234169 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234170 | Add use case and requirements for NPN fault management | Huawei | revised |  | S5-234743 |
| S5-234171 | Add use case and requirements for management of NPN service customer | Huawei | agreed |  |  |
| S5-234172 | Rel-17 CR 28.312 Add IS\_ALL\_OF to allowedValues in targetCondition and contextCondition attributes | China Mobile Com. Corporation | withdrawn |  |  |
| S5-234173 | Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes | China Mobile Com. Corporation | withdrawn |  |  |
| S5-234174 | DP for Rel-19 MDA topic | Samsung R&D Institute India | merged |  |  |
| S5-234175 | 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 | revised | S5-233409 | S5-234502 |
| S5-234176 | pCR TR 28.910 Add use cases and requirements for management of ANL | China Mobile, Huawei, Deutsche Telecom, AsiaInfo, CATT, China Unicom, ZTE | not pursued | S5-233410 |  |
| S5-234177 | pCR TR 28.909 Add potential KEI for fault management | China Mobile, Huawei | revised |  | S5-234745 |
| S5-234178 | pCR 28.831 Alarm Subscription and Notification Key Issue | Samsung R&D Institute India | revised |  | S5-234527 |
| S5-234179 | Rel-18 pCR 28.826 Add the solution for reporting depending on the triggers | Huawei | not pursued |  | - |
| S5-234180 | Rel-18 pCR 28.826 Add the solution evaluation | Huawei | revised |  | S5-234478 |
| S5-234181 | Discussion paper for CHF-to-CHF interaction | Huawei | noted |  |  |
| S5-234182 | Discussion paper for PDU session level triggers for QBC and FBC | Huawei | noted |  |  |
| S5-234183 | Discussion paper for roaming charging profiles update with profile change time | Huawei | noted |  |  |
| S5-234184 | Rel-18 pCR 28.827 Add key issue in clause 7.2 and new solution #2.x for same granularity of charging session | Huawei | merged |  |  |
| S5-234185 | Rel-18 pCR 28.827 Add solution #2.y for charging message exchange between V-CHF and H-CHF based on quota management | Huawei | revised |  | S5-234485 |
| S5-234186 | Rel-18 pCR 28.827 Correct errors in clause 7.2.4.1.3 | Huawei | revised |  | S5-234620 |
| S5-234187 | Rel-18 pCR 28.827 Resolve EN in solution #2.10 | Huawei | revised |  | S5-234621 |
| S5-234188 | Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.1 | Huawei | revised |  | S5-234486 |
| S5-234189 | Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.2 | Huawei | revised |  | S5-234619 |
| S5-234190 | Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.5 | Huawei | merged |  |  |
| S5-234191 | Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.6 | Huawei | merged |  |  |
| S5-234192 | Rel-18 pCR 28.827 Add new solution in clause 7.5 | Huawei | merged |  |  |
| S5-234193 | Rel18 pCR TR 28.839 Addition of the solution for the Enablers for TSC and TS Charging | Huawei | revised |  | S5-234629 |
| S5-234194 | Presentation of TR 28.839 for information | Huawei | revised |  | S5-234631 |
| S5-234195 | Rel18 pCR TR28.843 Clarification on the concept | Huawei | revised |  | S5-234451 |
| S5-234196 | Rel18 pCR TR28.843 Clarification on business roles | Huawei | revised |  | S5-234633 |
| S5-234197 | Rel18 pCR TR28.843 Addition of the solution about new TS for the charging architecture and principles | Huawei | revised |  | S5-234634 |
| S5-234198 | Rel18 pCR TR28.843 Addition of the solution about restructure for the charging principle | Huawei | approved |  |  |
| S5-234199 | Rel18 pCR TR28.843 Addition of the solution about CHF selection | Huawei | not pursued |  |  |
| S5-234200 | Rel18 pCR TR28.843 Addition of the solution about converged charging architecture | Huawei | revised |  | S5-234635 |
| S5-234201 | Rel18 pCR TR28.843 Addition of the solution about network slice tenant charging architecture | Huawei | revised |  | S5-234636 |
| S5-234202 | Rel18 pCR TR28.843 Addition of the solution about converged tenant charging architecture | Huawei | revised |  | S5-234637 |
| S5-234203 | Rel18 pCR TR28.843 Addition of the solution about CHF to CHF communication | Huawei | revised |  | S5-234638 |
| S5-234204 | Rel18 pCR TR28.843 Addition of the solution about NF to CHFs Communication | Huawei | revised |  | S5-234639 |
| S5-234205 | Rel18 pCR TR28.843 Addition of the solution about separated charging architecure | Huawei | revised |  | S5-234640 |
| S5-234206 | Rel18 pCR TR28.843 Addition of the use cases for architecture and charging principle investigation | Huawei | revised |  | S5-234641 |
| S5-234207 | Rel18 pCR TR28.843 Addition of mapping, evaluation and conclusion | Huawei | revised |  | S5-234642 |
| S5-234208 | Presentation of TR 28.843 for information | Huawei | revised |  | S5-234643 |
| S5-234209 | Correct the message flow for SCUR blocking mode | Huawei | agreed |  |  |
| S5-234210 | Rel-18 CR 32.290 Correct the SCUR blocking-mode message flow | Huawei | revised |  | S5-234599 |
| S5-234211 | Add the converged charging mapping | Huawei | revised | S5-233449 | S5-234600 |
| S5-234212 | Rel-18 CR 32.240 Add the converged charging mapping | Huawei | withdrawn | S5-233550 |  |
| S5-234213 | Add the charging data transfer for the converged charging | Huawei | revised |  | S5-234602 |
| S5-234214 | Add the charging data transfer for the converged charging | Huawei | revised |  | S5-234603 |
| S5-234215 | Correction the description for the converged charging | Huawei | revised |  | S5-234604 |
| S5-234216 | Correction the description for the converged charging | Huawei | revised |  | S5-234605 |
| S5-234217 | Discussion Paper on Triggers in Charging Stage 2 and Stage 3 | Huawei | noted |  |  |
| S5-234218 | Rel-17 CR 32.298 Addition of the NF Triggers in the CHF CDR | Huawei | withdrawn | S5-233551 |  |
| S5-234219 | Rel-18 CR 32.298 Addition of the NF Triggers in the CHF CDR | Huawei | withdrawn | S5-233552 |  |
| S5-234220 | Update OpenAPI version | Huawei | revised |  | S5-234617 |
| S5-234221 | Update OpenAPI version | Huawei | revised |  | S5-234618 |
| S5-234222 | Discussion paper for CHF distributed deployment architecture | Huawei | noted |  |  |
| S5-234223 | An architecture for CHF distributed deployment | Huawei | merged | S5-233454 |  |
| S5-234224 | Collection of useful charging contributions and external communication documents | Huawei | revised |  | S5-234454 |
| S5-234225 | Updated WID on enhanced Edge Computing Management | Samsung, Huawei | revised |  | S5-234500 |
| S5-234226 | DP on SA5 Collection of Rel-19 potential topics for SA workshop preparation | China Unicom,CATT | merged |  |  |
| S5-234227 | pCR 28.903 Conclusion and Recommendations for EAS relocation policies Key Issue | Samsung, Huawei | revised |  | S5-234573 |
| S5-234228 | Rel-17 CR 28.312 Add ValueRange type and replace the Real type | China Mobile Com. Corporation, ZTE | merged |  |  |
| S5-234229 | pCR 28.903 Conclusion and Recommendations for Federation Management | Samsung, Huawei | revised |  | S5-234574 |
| S5-234230 | Rel-17 CR 28.312 Add IS\_ALL\_OF to allowedValues in targetCondition and contextCondition attributes | China Mobile Com. Corporation, ZTE | merged |  |  |
| S5-234231 | pCR 28.903 Solution Conclusion and Recommendations for EDN Sharing | Samsung, Huawei | revised |  | S5-234579 |
| S5-234232 | Rel-17 CR 28.541 fixing coverageArea | Samsung R&D Institute India | revised |  | S5-234811 |
| S5-234233 | TS28.541 Rel-18 NRM enhancements to support 5GLAN management | China Mobile | revised |  | S5-234689 |
| S5-234234 | Rel-18 CR 28.541 fixing coverageArea | Samsung R&D Institute India | revised |  | S5-234812 |
| S5-234235 | Rel-17 CR 28.312 Fixing documentation and allowed value bug in contextValueRange attribute | China Mobile Com. Corporation | revised |  | S5-234784 |
| S5-234236 | Rel-18 CR Correcting NSSI State Diagram | Samsung R&D Institute India | not pursued |  |  |
| S5-234237 | Rel-18 pCR TR 28.831 Add conclusion for KI Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | revised |  | S5-234531 |
| S5-234238 | Rel-18 CR 28.552 Add a use case for 5GLAN measurements | China Mobile | revised |  | S5-234692 |
| S5-234239 | Rel-18 CR 28.552 Update group-level N4 session measurements of SMF for 5GLAN | China Mobile | revised |  | S5-234693 |
| S5-234240 | pCR TR 28.925 Add overview for management service features supported by CRUD operations in SBMA | Huawei, Deutsche Telekom | revised | S5-233461 | S5-234521 |
| S5-234241 | Add new IOC to support granular access control | Huawei | merged |  | - |
| S5-234242 | pCR TR 28.925 Add conclusion and recommendation for issue#6 software management feature in SBMA for 5G | Huawei | revised |  | S5-234511 |
| S5-234243 | pCR TR 28.925 Add conclusion and recommendation for issue#9 Improvement on the management function description | Huawei | revised |  | S5-234843 |
| S5-234244 | pCR TR 28.925 Update the example for management function deployment scenarios | Huawei | revised |  | S5-234522 |
| S5-234245 | Rel-18 pCR 28.831 Add conclusion for issue on createMOI | Nokia, Nokia Shanghai Bell | revised |  | S5-234528 |
| S5-234246 | Rel-18 pCR 28.831 Add issue on partial success for WRITE operations (HTTP/JSON only) | Nokia, Nokia Shanghai Bell | revised |  | S5-234533 |
| S5-234247 | Rel-18 pCR 28.831 Clarify description of the HTTP error response FS\_eSBMAe\_WoP#3 | Nokia, Nokia Shanghai Bell | revised |  | S5-234534 |
| S5-234248 | Rel-18 CR 28.552 Update N19 related measurements of UPF for 5GLAN | China Mobile | agreed |  |  |
| S5-234249 | Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information | ZTE Corporation | revised |  | S5-234665 |
| S5-234250 | Presentation sheet for TR 28.831 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S5-234251 | Rel-18 CR 28.552 Update QoS flow related measurements of UPF for 5GLAN | China Mobile | revised |  | S5-234694 |
| S5-234252 | Presentation of TR 28.864 to TSG for approval | China Telecommunications | approved |  |  |
| S5-234253 | 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 | not pursued | S5-233458 |  |
| S5-234254 | pCR TR 28.910 Add potential solution for management of ANL | Huawei, China Mobile,Deutsche Telekom | not pursued | S5-233459 |  |
| S5-234255 | pCR TR 28.909 Add potential solution for NRM fragment for autonomous network evaluation | Huawei, China Mobile,Deutsche Telekom | revised |  | S5-234744 |
| S5-234256 | Rel-18 CR 28.554 Add a use case for 5G VN group measurements related KPIs | China Mobile | revised |  | S5-234695 |
| S5-234257 | Service Management | Ericsson | revised |  | S5-234496 |
| S5-234258 | 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 | revised | S5-233468 | S5-234509 |
| S5-234259 | pCR 28.925 Issue description for 28.621 | Ericsson | revised |  | S5-234512 |
| S5-234260 | Rel-18 CR 28.554 Add Accessibility KPIs for 5G VN group measurements | China Mobile | revised |  | S5-234696 |
| S5-234261 | Rel-18 CR TS 28.541 Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations | Samsung | not pursued |  |  |
| S5-234262 | pCR TR 28.925 Update solution and add conclusion and recommendation for issue#13 Analysis on IRP specification needs to support SBMA | HuaWei Technologies Co., Ltd | revised |  | S5-234510 |
| S5-234263 | Revised WID on Service Based Management Architecture(SBMA) Phase 2 | Nokia, Nokia Shanghai Bell | revised |  | S5-234499 |
| S5-234264 | pCR 28.925 Solution description for 28.621 | Ericsson | revised |  | S5-234513 |
| S5-234265 | pCR 28.925 Conclusion for 28.621 | Ericsson | revised |  | S5-234514 |
| S5-234266 | pCR 28.925 Issue description for 28.622 | Ericsson | revised |  | S5-234515 |
| S5-234267 | pCR 28.925 Solution description for 28.622 | Ericsson | revised |  | S5-234516 |
| S5-234268 | pCR 28.925 Conclusion for 28.622 | Ericsson | revised |  | S5-234517 |
| S5-234269 | pCR 28.925 Issues for 28.623 | Ericsson | revised |  | S5-234518 |
| S5-234270 | Correction of attribute Syntax | Ericsson | agreed |  |  |
| S5-234271 | pCR 28.925 Solution description for 28.623 | Ericsson | revised |  | S5-234519 |
| S5-234272 | Correction of attribute syntax | Ericsson | agreed |  |  |
| S5-234273 | pCR 28.925 Conclusion for 28.623 | Ericsson | revised |  | S5-234520 |
| S5-234274 | Removal of Editor’s note in 28.925-0a0 | Ericsson | approved |  |  |
| S5-234275 | Input on SA5 Collection of Rel-19 potential topics for SA workshop preparation | China Mobile Com. Corporation | merged |  |  |
| S5-234276 | Correction of reference and alarm information | Ericsson | agreed |  | - |
| S5-234277 | Conclusion for issue 2 | Ericsson | approved |  |  |
| S5-234278 | Conclusion for issue 6 | Ericsson | merged |  |  |
| S5-234279 | Correction of RFC references and alarm information | Ericsson | agreed |  | - |
| S5-234280 | Presentation of Specification/Report to TSG: TR 28.925, Version 1.0.0 | Ericsson | approved |  |  |
| S5-234281 | LS reply to ITU-T SG13 on LS on Information and request of advice on the SG13 plan to initiate a new work item | China Mobile Com. Corporation | merged |  |  |
| S5-234282 | Correction of RFC references, and alarm information | Ericsson | agreed |  | - |
| S5-234283 | Rel-18 CR 28 552 Add performance measurement related with number of notifications for NWDAF data collection | China Mobile Com. Corporation | revised |  | S5-234680 |
| S5-234284 | Rel-18 CR 28 552 Add performance measurement related with number of subscriptions for NWDAF data collection | China Mobile Com. Corporation | revised |  | S5-234681 |
| S5-234285 | Rel-18 CR 28 552 Add use case of the performance measurement for NWDAF data collection | China Mobile | revised |  | S5-234682 |
| S5-234286 | Add the converged charging mapping | Huawei | revised | S5-233450 | S5-234601 |
| S5-234287 | Addition of the NF Triggers in the CHF CDR | Huawei | not pursued | S5-233451 |  |
| S5-234288 | Rel-18 CR 32.298 Addition of the NF Triggers in the CHF CDR | Huawei | not pursued | S5-233452 |  |
| S5-234289 | pCR TR 28.913 KI#1 Consideration of four types of metrics to estimate VNF Energy | Huawei, AT&T, Deutsche Telekom | revised |  | S5-234560 |
| S5-234290 | Add NRM for network slice isolation | Nokia, Nokia Shanghai Bell | revised | S5-232114 | S5-234700 |
| S5-234291 | Living document on 3GPP work on energy efficiency | Huawei | noted |  |  |
| S5-234292 | pCR TR 28.830 Add description failure prediction enhancement | Huawei, China Mobile | revised |  | S5-234503 |
| S5-234293 | pCR TR 28.830 Add description performance error analysis | Huawei, China Mobile | revised |  | S5-234504 |
| S5-234294 | pCR TR 28.830 Add description root cause analysis enhancement | Huawei, China Mobile | revised |  | S5-234505 |
| S5-234295 | pCR TR 28.830 Add description fault recovery related enhancement | Huawei, China Mobile | revised |  | S5-234552 |
| S5-234296 | Reply LS to LS on Information and request of advice on the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective" | Huawei | revised |  | S5-234547 |
| S5-234297 | pCR TR 28.865 Report of achievable reliability information | Huawei | approved |  |  |
| S5-234298 | pCR TR 28.865 Add description on reliability analysis | Huawei | approved |  |  |
| S5-234299 | pCR TR 28.865 Add description on synchronization analysis | Huawei | approved |  |  |
| S5-234300 | pCR TR 28.865 Add description on TSN related analysis | Huawei | revised |  | S5-234569 |
| S5-234301 | Presentation of TR 28.913 to TSG SA for Information and Approval | Huawei | approved |  | - |
| S5-234302 | Update lifecycle phase description of closed control loop | Huawei | agreed |  |  |
| S5-234303 | Move Attibute definitions to UML repertoire | Ericsson Hungary Ltd | revised |  | S5-234772 |
| S5-234304 | Rel-15 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | agreed |  |  |
| S5-234305 | Rel-16 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | agreed |  |  |
| S5-234306 | Rel-17 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | agreed |  |  |
| S5-234307 | Rel-18 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | agreed |  |  |
| S5-234308 | LS Reply on Enhancement on Charging Identifier Uniqueness Mechanism | Ericsson LM | revised |  | S5-234452 |
| S5-234309 | Rel-17 CR 32.291 Correction of requested units | Ericsson LM | revised | S5-233297 | S5-234606 |
| S5-234310 | Rel-18 CR 32.291 Correction of requested units | Ericsson LM | revised | S5-233298 | S5-234607 |
| S5-234311 | Rel-16 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | not pursued |  |  |
| S5-234312 | Rel-17 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | revised |  | S5-234610 |
| S5-234313 | Rel-18 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | revised |  | S5-234611 |
| S5-234314 | Rel-18 CR 32.290 Correction of unit type usage for converged charging | Ericsson LM | not pursued |  |  |
| S5-234315 | Rel-17 CR 32.255 Correction of missing inter and intra PLMN mobility | Ericsson LM | revised |  | S5-234612 |
| S5-234316 | Rel-17 CR 32.255 Correction of inter PLMN without Charging Identifier as string | Ericsson LM | revised |  | S5-234613 |
| S5-234317 | Rel-17 CR 32.255 Correction of interworking with EPC and Charging Identifier as string | Ericsson LM | revised |  | S5-234614 |
| S5-234318 | Rel-16 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | not pursued |  |  |
| S5-234319 | Rel-17 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | revised |  | S5-234615 |
| S5-234320 | Rel-18 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | revised |  | S5-234616 |
| S5-234321 | Rel-18 pCR 28.203 Adding SCUR for number of UEs per NSSAI | Ericsson LM | merged |  |  |
| S5-234322 | Rel-18 pCR 28.203 Adding PEC for number of UEs per NSSAI | Ericsson LM | merged |  |  |
| S5-234323 | Rel-18 pCR 28.826 Adding solution using service identifier as string | Ericsson LM | not pursued |  | - |
| S5-234324 | Rel-18 pCR 28.826 New use case for used unit containers for one rating group split over messages | Ericsson LM | revised |  | S5-234480 |
| S5-234325 | Rel-18 pCR 28.826 Adding use case and key issue on handling of event charging triggers | Ericsson LM | revised |  | S5-234481 |
| S5-234326 | Rel-18 pCR 28.826 Adding solution using charging trigger profile | Ericsson LM | revised |  | S5-234482 |
| S5-234327 | Rel-18 pCR 28.826 Adding solution using container reference for message size | Ericsson LM | revised |  | S5-234483 |
| S5-234328 | Rel-18 pCR 28.826 Adding solution using common data for message size | Ericsson LM | not pursued |  | - |
| S5-234329 | Rel-18 pCR 28.827 Adding user reporting solution in clause 7.6 | Ericsson LM | revised |  | S5-234622 |
| S5-234330 | Rel-18 pCR 28.827 Adding conclusion in clause 7.6 | Ericsson LM | revised |  | S5-234623 |
| S5-234331 | Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.3 | Ericsson LM | revised |  | S5-234624 |
| S5-234332 | Rel-18 pCR 28.827 Adding conclusion in clause 7.3 | Ericsson LM | approved |  |  |
| S5-234333 | Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.5 | Ericsson LM | revised |  | S5-234625 |
| S5-234334 | Rel-18 pCR 28.827 Adding conclusion in clause 7.5 | Ericsson LM | revised |  | S5-234626 |
| S5-234335 | Rel-18 pCR 28.839 Adding solution using charging from trusted AF and PEC | Ericsson LM | revised |  | S5-234630 |
| S5-234336 | Rel-18 pCR 28.839 Correcting exposure solution using NEF | Ericsson LM | revised |  | S5-234628 |
| S5-234337 | Rel-18 pCR 28.839 Adding missing abbreviations and references | Ericsson LM | revised |  | S5-234627 |
| S5-234338 | LS on initiation of draft new Recommendation ITU-T Y.IMT2020-MEVE-req-frame “Future networks including IMT-2020: requirements and framework for measurement of effectiveness and value evaluation of autonomous networks” | ITU-T SG13 | postponed |  |  |
| S5-234339 | pCR TR 28.841 update use case for NTN mobility management | China Telecommunications | withdrawn |  |  |
| S5-234340 | pCR TR 28.841 update use case for NTN mobility management | China Telecommunications | revised |  | S5-234535 |
| S5-234341 | pCR TR 28.841 update solution#2 Potential solution for NTN Mobility Management enhancement with discontinuous satellite coverage | China Telecom, China Unicom | revised |  | S5-234536 |
| S5-234342 | DP on SA to SA5 Collection of Rel-19 potential topics on management aspects of 5G System with Satellite Backhaul | China Telecommunications | merged |  |  |
| S5-234343 | Input to Draft CR TS 28.105 add AI/ML management capabilities description | NEC, Intel | not pursued |  |  |
| S5-234344 | TR 28.844 Update Abbreviations and edit correction in business roles | CATT | approved |  |  |
| S5-234345 | pCR for TR28.844 Add charging scenarios and key issues for Edge Computing via satellite backhaul | CATT | revised |  | S5-234489 |
| S5-234346 | pCR for TR28.844 Add charging scenarios and key issues for UE-to-UE communications via satellite | CATT | revised |  | S5-234490 |
| S5-234347 | TR28.844 Add solutions for satellite backhaul charging | CATT | revised |  | S5-234491 |
| S5-234348 | Rel-18 CR 32.156 Move Attribute definitions to UML repertoire | Ericsson-LG Co., LTD | revised |  | S5-234773 |
| S5-234349 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML trustworthiness indicators | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234350 | Input to Draft CR TS 28.105 Correction to the Scope | NEC, Intel | approved |  |  |
| S5-234351 | Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes | China Mobile Com. Corporation | revised |  | S5-234786 |
| S5-234352 | pCR TS Correction of the requirements from mandatory to optional | Ericsson-LG Co., LTD | revised |  | S5-234581 |
| S5-234353 | CR Rel-17 TS 28.105 Removal of SW loading from training phase | Ericsson-LG Co., LTD | agreed |  |  |
| S5-234354 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML data trustworthiness | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234355 | Rel-17 TS 28.105 Correction of the figure for ML training function | Ericsson-LG Co., LTD | revised |  | S5-234777 |
| S5-234356 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML training trustworthiness | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234357 | pCR draft TS28.105 Add NRMs for AI-ML model testing | CATT | merged |  |  |
| S5-234358 | pCR draft TS28.105 Add service componets for AI-ML model testing | CATT | noted |  |  |
| S5-234359 | pCR 28.841 update solution for NTN mobility management enhancement | CATT | merged |  |  |
| S5-234360 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML trustworthiness assessment | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234361 | New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2 | China Unicom, Ericsson, Huawei, ZTE, CMCC, China Telecom, AsiaInfo | revised |  | S5-234501 |
| S5-234362 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for AI/ML inference trustworthiness | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234363 | pCR draft TS28.105 Add usecase for ML entities joint testing | CATT | merged |  |  |
| S5-234364 | Rel-18 pCR 28.829 – Update 6.8po | Nokia | revised |  | S5-234540 |
| S5-234365 | Discussion Paper: Technical Specification for Services | Nokia | endorsed |  | - |
| S5-234366 | Rel-18 Input to Draft CR TS 28.105 Solution for AI/ML training data trustworthiness and AI/ML training trustworthiness | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234367 | Rel-17 CR for TS28.552 Add packet measurements valid for split gNB deployment scenario | ZTE Corporation | not pursued |  |  |
| S5-234368 | Rel-19 topic collection – Plan and transaction management | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234369 | Rel-18 CR for TS28.552 Add packet measurements valid for split gNB deployment scenario | ZTE Corporation | not pursued |  |  |
| S5-234370 | Rel-17 CR 28.537 Clarify management service discovery use cases | Ericsson Inc. | not pursued |  |  |
| S5-234371 | Rel-18 pCR 28.842 First thoughts on solution for issue 4 | Nokia Germany | noted |  |  |
| S5-234372 | pCR TR 28.835 Add conclusion and recommendation for issue #2 | China Unicom | approved |  |  |
| S5-234373 | pCR TR 28.835 Modify description, solution and add conclusion on issue #1 | China Unicom | revised |  | S5-234543 |
| S5-234374 | pCR TR 28.835 Modify description, solution and add conclusion on issue #3 | China Unicom | revised |  | S5-234544 |
| S5-234375 | Rel-17 CR 28.532 Clarify streaming data reporting service definitions | Ericsson Inc. | revised |  | S5-234774 |
| S5-234376 | pCR TR 28.835 Modify service-based management architecture for MOCN and add conclusion for issue #4 | China Unicom | revised |  | S5-234545 |
| S5-234377 | Rel-18 pCR TR 28.831 Add potential solution and conclusion for KI Advertising notifications supported by MnS producer | Nokia, Nokia Shanghai Bell | revised |  | S5-234532 |
| S5-234378 | Presentation sheet of TR 28.835 for Approval | China Unicom | revised |  | S5-234840 |
| S5-234379 | New Rel-18 WID on Management Aspects of URLLC | China Unicom | revised |  | S5-234806 |
| S5-234380 | pCR TR28.832 Add Conclusion and recommendation for issue#3 | China Unicom | revised |  | S5-234553 |
| S5-234381 | InputToDraftCR Rel-18 28.533 on Access control for management service | Nokia, Nokia Shanghai Bell | revised |  | S5-234716 |
| S5-234382 | pCR TR28.832 Add Conclusion and recommendation for issue#5 | China Unicom | revised |  | S5-234554 |
| S5-234383 | Input on SA to SA5 Collection of Rel-19 potential topics for SA workshop preparation | China Unicom | merged |  |  |
| S5-234384 | pCR TR28.832 Add New Solution and conclusion for performance measurements related on URLLC resource load | China Unicom | approved |  |  |
| S5-234385 | Presentation Sheet of TR 28.832 for SA Approval | China Unicom | revised |  | S5-234841 |
| S5-234386 | Discussion on way forward of Management Aspects of 5G Network Sharing Phase2 | China Unicom | noted |  |  |
| S5-234387 | Discussion on URLLC performance measurements related to resource load of URLLC services | China Unicom | noted |  |  |
| S5-234388 | pCR TR 28.835 Modify potential solution and add conclusion for issue #5 | China Unicom | revised |  | S5-234546 |
| S5-234389 | Input to Draft CR TS 28.105 Enhancements to TS structure | NEC, Intel | revised |  | S5-234593 |
| S5-234390 | Input to SA5 Collection of Rel-19 potential topics for SA workshop preparation | Microsoft Europe SARL, Intel Corporation | merged |  |  |
| S5-234391 | pCR TR28.910 Add key issue of attribution to individual MnS | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S5-234392 | pCR TR 28.913 Add potential solution for Energy Efficiency KPI of URLLC Network Slice based on both reliability | China Unicom | revised |  | S5-234561 |
| S5-234393 | New WID on Charging enhancement for Network Slice based wholesale in roaming | MATRIXX Software | revised |  | S5-234455 |
| S5-234394 | Slice-aware charging for Roaming partners | MATRIXX Software | revised |  | S5-234456 |
| S5-234395 | Slice-aware charging for Roaming partners | MATRIXX Software | revised |  | S5-234457 |
| S5-234396 | Slice-aware charging for Roaming partners | MATRIXX Software | revised |  | S5-234458 |
| S5-234397 | Slice-aware charging for Roaming partners | MATRIXX Software | revised |  | S5-234459 |
| S5-234398 | Slice-aware charging for Roaming partners | MATRIXX Software | revised |  | S5-234460 |
| S5-234399 | LS reply on Slice based (wholesale) differentiation and charging in roaming | MATRIXX Software | revised |  | S5-234453 |
| S5-234400 | pCR TR 28.842 Potential solution for discovery of stored management data | Microsoft Europe SARL | revised |  | S5-234556 |
| S5-234401 | pCR TR28.842 Potential solution for retrieval of stored management data | Microsoft Europe SARL | revised |  | S5-234557 |
| S5-234402 | Rel-18 pCR 28.203 Solve Editor's Note on charged party | MATRIXX Software | revised |  | S5-234461 |
| S5-234403 | Discussion paper on NSACF triggers | MATRIXX Software | noted |  |  |
| S5-234404 | Rel-18 pCR 28.203 Introduce Nb of UEs PEC message flow | MATRIXX Software | revised |  | S5-234468 |
| S5-234405 | Rel-18 pCR 28.203 Introduce Nb of UEs ECUR message flow | MATRIXX Software | revised |  | S5-234469 |
| S5-234406 | Rel-18 pCR 28.203 Introduce Nb of PDUs PEC message flow | MATRIXX Software | revised |  | S5-234470 |
| S5-234407 | Rel-18 pCR 28.203 Introduce Nb of PDUs IEC message flow | MATRIXX Software | approved |  |  |
| S5-234408 | Rel-18 pCR 28.203 Introduce Nb of PDUs ECUR message flow | MATRIXX Software | revised |  | S5-234471 |
| S5-234409 | Input on SA5 Collection of Rel-19 potential topics for SA workshop preparation | ZTE Corporation | merged |  |  |
| S5-234410 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | SA5 VC - CH Chair (MATRIXX Software) | merged |  |  |
| S5-234411 | Rel-18 pCR 28.204 Introduce architecture | MATRIXX Software | revised |  | S5-234473 |
| S5-234412 | Rel-18 pCR 28.204 Intoduce charging principles | MATRIXX Software | revised |  | S5-234474 |
| S5-234413 | Discussion paper on the difference between MnS and management functionality | Nokia, Nokia Shanghai Bell | noted |  |  |
| S5-234414 | Rel-18 pCR 28.913 Updates in Potential solution of clause 4.6.2.1 for EE | Samsung Electronics Czech | revised |  | S5-234562 |
| S5-234415 | Rel-18 pCR 28.913 Add Conclusion and Recommendation for Key Issue 6 | Samsung Electronics Czech | revised |  | S5-234563 |
| S5-234416 | Rel-17 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity | Samsung Electronics Czech | not pursued |  |  |
| S5-234417 | Rel-18 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity | Samsung Electronics Czech | revised |  | S5-234702 |
| S5-234418 | Rel-18 CR for TS28.310 several editorial Corrections | ZTE Corporation | revised |  | S5-234813 |
| S5-234419 | Rel-18 CR for TS28.405 several editorial Corrections | ZTE Corporation | agreed |  |  |
| S5-234420 | Rel-18 CR for TS28.531 several editorial Corrections | ZTE Corporation | agreed |  |  |
| S5-234421 | Rel-18 pCR TS 28.913 Add a potential solution for KI#6 | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234422 | Rel-18 CR for TS28.538 several editorial Corrections | ZTE Corporation | agreed |  |  |
| S5-234423 | Rel-18 CR for TS28.541 several editorial Corrections | ZTE Corporation | revised |  | S5-234814 |
| S5-234424 | CR TS28.104 Corrections of the requirements on MDA capability | NEC, Intel | revised |  | S5-234778 |
| S5-234425 | New measurement “In-session activity time per RAT” | Apple | revised |  | S5-234704 |
| S5-234426 | New KPI “NR and E-UTRAN in-session retention rate” | Apple | revised |  | S5-234705 |
| S5-234427 | New measurement “Successful RRC connection establishments per RAT” | Apple | revised |  | S5-234706 |
| S5-234428 | New KPI “RRC Retainability” | Apple | revised |  | S5-234707 |
| S5-234429 | New measurement “Number of RRC release” | Apple | not pursued |  |  |
| S5-234430 | New KPI “NR and EUTRAN RRC retention rate” | Apple | revised |  | S5-234708 |
| S5-234431 | Input on SA to SA5 Collection of Rel-19 potential topics on Exposure to Verticals for SA workshop preparation | Nokia, Nokia Shanghai Bell | merged |  |  |
| S5-234432 | New measurement “DL PDCP SDU Data Volume per RAT” | Apple | revised |  | S5-234709 |
| S5-234433 | New KPI “NR and EUTRAN data volume retention rate” | Apple | revised |  | S5-234710 |
| S5-234434 | Rel-18 pCR 28.203 Introduce message flows SCUR | MATRIXX Software | revised |  | S5-234472 |
| S5-234435 | Rel-18 pCR 28.844 Satellite backhaul Adding new use case | Nokia, Nokia Shanghai Bell | revised |  | S5-234492 |
| S5-234436 | F2F meeting process for OAM | WG chair | noted |  |  |
| S5-234437 | MHPG#4 confirmed 3GPP meeting plan for 2023 and 2024 | WG chair | noted |  |  |
| S5-234438 | SA5 Meeting facility requirements | WG chair | noted |  |  |
| S5-234439 | SA5 TU budget presentation for SA Rel-19 workshop | WG chair | noted |  |  |
| S5-234440 | SA5 Rel-19 Work Planning Sheet as input to TU budget | WG chair | noted |  |  |
| S5-234441 | Information on ETSI EE monitoring standard and support from 3GPP SA5 | ETSI TC EE | replied to |  |  |
| S5-234442 | LS on ITU FG AN Build-a-thon 2023 | ITU-T | noted |  |  |
| S5-234443 | CH agenda and time plan | WG vice Chair (Matrixx Software) | noted | S5-233808 | - |
| S5-234444 | TS 28.203 v0.3.0 on Charging management; Network slice admission control charging in the 5G System (5GS) | MATRIXX Software | email agreement | - | - |
| S5-234445 | TS 28.204 v0.2.0 on Charging management; Network slice-specific authentication and authorization charging in the 5G System (5GS) | MATRIXX Software | email agreement | - | - |
| S5-234446 | TR 28.826 v1.5.0 on Study on Nchf charging services phase 2 improvements and optimizations | Ericsson LM | email agreement | - | - |
| S5-234447 | TR 28.827 v1.9.0 on Study on 5G charging for additional roaming scenarios and actors | Ericsson | email agreement | - | - |
| S5-234448 | TR 28.839 v0.7.0 on Study on time sensitive networking charging | Huawei | email agreement | - | - |
| S5-234449 | TR 28.843 v0.3.0 on Study on structure of charging for verticals | Huawei | email agreement | - | - |
| S5-234450 | TR 28.844 v0.3.0 on Study on charging aspects of satellite in the 5G System (5GS) | CICT | email agreement | - | - |
| S5-234451 | Rel18 pCR TR28.843 Clarification on the concept | Huawei | approved | S5-234195 | - |
| S5-234452 | Reply LS to C4-225411 = S5-233195 on Enhancement on Charging Identifier Uniqueness Mechanism (to: CT4; cc: CT3; contact: Ericsson) | SA5 | approved | S5-234308 | - |
| S5-234453 | Reply LS to GSMA LS S5-233853 on Slice based (wholesale) differentiation and charging in roaming (to: GSMA NG ENSWI; cc: GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2; contact: MATRIXX Software) | SA5 | approved | S5-234399 | - |
| S5-234454 | Collection of useful charging contributions and external communication documents | Huawei | noted | S5-234224 | - |
| S5-234455 | New WID on Charging enhancement for Network Slice based wholesale in roaming | MATRIXX Software | agreed | S5-234393 | - |
| S5-234456 | Slice-aware charging for Roaming partners | MATRIXX Software | agreed | S5-234394 | - |
| S5-234457 | Slice-aware charging for Roaming partners | MATRIXX Software | agreed | S5-234395 | - |
| S5-234458 | Slice-aware charging for Roaming partners | MATRIXX Software | agreed | S5-234396 | - |
| S5-234459 | Slice-aware charging for Roaming partners | MATRIXX Software | revised | S5-234397 | S5-234830 |
| S5-234460 | Slice-aware charging for Roaming partners | MATRIXX Software | agreed | S5-234398 | - |
| S5-234461 | Rel-18 pCR 28.203 Solve Editor's Note on charged party | MATRIXX Software | agreed | S5-234402 | - |
| S5-234462 | Rel-18 CR 32.255 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | agreed | S5-234092 | - |
| S5-234463 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | agreed | S5-234093 | - |
| S5-234464 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | agreed | S5-234094 | - |
| S5-234465 | Rel-18 CR 32.256 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | agreed | S5-234095 | - |
| S5-234466 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | agreed | S5-234096 | - |
| S5-234467 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | agreed | S5-234097 | - |
| S5-234468 | Rel-18 pCR 28.203 Introduce Nb of UEs PEC message flow | MATRIXX Software, Ericsson | approved | S5-234404 | - |
| S5-234469 | Rel-18 pCR 28.203 Introduce Nb of UEs ECUR message flow | MATRIXX Software | approved | S5-234405 | - |
| S5-234470 | Rel-18 pCR 28.203 Introduce Nb of PDUs PEC message flow | MATRIXX Software | approved | S5-234406 | - |
| S5-234471 | Rel-18 pCR 28.203 Introduce Nb of PDUs ECUR message flow | MATRIXX Software | approved | S5-234408 | - |
| S5-234472 | Rel-18 pCR 28.203 Introduce message flows SCUR | MATRIXX Software | approved | S5-234434 | - |
| S5-234473 | Rel-18 pCR 28.204 Introduce architecture | MATRIXX Software | approved | S5-234411 | - |
| S5-234474 | Rel-18 pCR 28.204 Intoduce charging principles | MATRIXX Software | approved | S5-234412 | - |
| S5-234475 | Rel-18 CR TS 32.240 Deployment Models | Nokia, Nokia Shanghai Bell, Huawei | agreed | S5-234006 | - |
| S5-234476 | Rel-18 pCR 28.826 Solution #1.15 Trigger | Nokia. Nokia Shanghai Bell | approved | S5-234007 | - |
| S5-234477 | Rel-18 pCR 28.826 Add the solution for reporting depending on the triggers | Huawei | withdrawn | - | - |
| S5-234478 | Rel-18 pCR 28.826 Add the solution evaluation | Huawei | approved | S5-234180 | - |
| S5-234479 | Rel-18 pCR 28.826 Adding solution using service identifier as string | Ericsson LM | withdrawn | - | - |
| S5-234480 | Rel-18 pCR 28.826 New use case for used unit containers for one rating group split over messages | Ericsson LM | approved | S5-234324 | - |
| S5-234481 | Rel-18 pCR 28.826 Adding use case and key issue on handling of event charging triggers | Ericsson LM | approved | S5-234325 | - |
| S5-234482 | Rel-18 pCR 28.826 Adding solution using charging trigger profile | Ericsson LM | approved | S5-234326 | - |
| S5-234483 | Rel-18 pCR 28.826 Adding solution using container reference for message size | Ericsson LM | approved | S5-234327 | - |
| S5-234484 | Rel-18 pCR 28.826 Adding solution using common data for message size | Ericsson LM | withdrawn | - | - |
| S5-234485 | Rel-18 pCR 28.827 Add solution #2.y for charging message exchange between V-CHF and H-CHF based on quota management | Huawei | approved | S5-234185 | - |
| S5-234486 | Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.1 | Huawei | approved | S5-234188 | - |
| S5-234487 | Update SMF-CHF interaction step ordering for I-SMF insertion or change | Cisco Systems France | agreed | S5-234090 | - |
| S5-234488 | Update SMF-CHF interaction step ordering for I-SMF insertion or change | Cisco | agreed | - | - |
| S5-234489 | pCR for TR28.844 Add charging scenarios and key issues for Edge Computing via satellite backhaul | CATT | approved | S5-234345 | - |
| S5-234490 | pCR for TR28.844 Add charging scenarios and key issues for UE-to-UE communications via satellite | CATT | approved | S5-234346 | - |
| S5-234491 | TR28.844 Add solutions for satellite backhaul charging | CATT | approved | S5-234347 | - |
| S5-234492 | Rel-18 pCR 28.844 Satellite backhaul Adding new use case | Nokia, Nokia Shanghai Bell | approved | S5-234435 | - |
| S5-234493 | LS on O-RAN - Transport Network Slicing Enhancement IM/DM TS28.541 (O-RAN\_WG9\_S-2023005; to: SA5; cc: SA, RAN; contact: Telefonica) | O-RAN WG9 | replied to | - | - |
| S5-234494 | Discussion paper on Using Forge-Git as the primary storage for Code | Ericsson Hungary Ltd | endorsed | S5-234077 | - |
| S5-234495 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | SA5 VC (Huawei), SA5 Chair, SA5 VC (Matrixx) | revised | S5-233854 | S5-234823 |
| S5-234496 | Service Management | Ericsson | endorsed | S5-234257 | - |
| S5-234497 | Discussion Paper: Techical Specification for Services | Nokia | withdrawn | - | - |
| S5-234498 | Revised SID on Management of TraceMDT Phase 2 | Nokia, Nokia Shanghai Bell | agreed | S5-233943 | - |
| S5-234499 | Revised WID on Service Based Management Architecture(SBMA) Phase 2 | Nokia, Nokia Shanghai Bell | agreed | S5-234263 | - |
| S5-234500 | Updated WID on enhanced Edge Computing Management | Samsung, Huawei | agreed | S5-234225 | - |
| S5-234501 | New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2 | China Unicom, Ericsson, Huawei, ZTE, CMCC, China Telecom, AsiaInfo | agreed | S5-234361 | - |
| S5-234502 | 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 | not pursued | S5-234175 | - |
| S5-234503 | pCR TR 28.830 Add description failure prediction enhancement | Huawei, China Mobile | not pursued | S5-234292 | - |
| S5-234504 | pCR TR 28.830 Add description performance error analysis | Huawei, China Mobile | not pursued | S5-234293 | - |
| S5-234505 | pCR TR 28.830 Add description root cause analysis enhancement | Huawei, China Mobile | not pursued | S5-234294 | - |
| S5-234506 | LS about status of FEAT24 “VNF-OAM” development by ETSI NFV (ETSI\_ISG\_NFV(23)000099; to: SA5; cc: -; contact: ZTE) | ETSI ISG NFV | postponed | - | - |
| S5-234507 | DP on FM restructuring of TS 28-545 | Ericsson Hungary Ltd | endorsed | S5-233822 | - |
| S5-234508 | pCR TR 28.925 Add conclusion and recommendation for issue#9 Improvement on the management function description | Huawei | withdrawn | - | - |
| S5-234509 | 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 | approved | S5-234258 | - |
| S5-234510 | pCR TR 28.925 Update solution and add conclusion and recommendation for issue#13 Analysis on IRP specification needs to support SBMA | HuaWei Technologies Co., Ltd | approved | S5-234262 | - |
| S5-234511 | pCR TR 28.925 Add conclusion and recommendation for issue#6 software management feature in SBMA for 5G | Huawei, Ericsson | approved | S5-234242 | - |
| S5-234512 | pCR 28.925 Issue description for 28.621 | Ericsson | approved | S5-234259 | - |
| S5-234513 | pCR 28.925 Solution description for 28.621 | Ericsson | approved | S5-234264 | - |
| S5-234514 | pCR 28.925 Conclusion for 28.621 | Ericsson | approved | S5-234265 | - |
| S5-234515 | pCR 28.925 Issue description for 28.622 | Ericsson | approved | S5-234266 | - |
| S5-234516 | pCR 28.925 Solution description for 28.622 | Ericsson | approved | S5-234267 | - |
| S5-234517 | pCR 28.925 Conclusion for 28.622 | Ericsson | approved | S5-234268 | - |
| S5-234518 | pCR 28.925 Issues for 28.623 | Ericsson | approved | S5-234269 | - |
| S5-234519 | pCR 28.925 Solution description for 28.623 | Ericsson | approved | S5-234271 | - |
| S5-234520 | pCR 28.925 Conclusion for 28.623 | Ericsson | approved | S5-234273 | - |
| S5-234521 | pCR TR 28.925 Add overview for management service features supported by CRUD operations in SBMA | Huawei, Deutsche Telekom | approved | S5-234240 | - |
| S5-234522 | pCR TR 28.925 Update the example for management function deployment scenarios | Huawei | not pursued | S5-234244 | - |
| S5-234523 | pCR 28.836 Add benefits of intent driven management approach to network slicing | L.M. Ericsson Limited, Deutsche Telekom | approved | S5-234161 | - |
| S5-234524 | Add Use case of Intent driven management to express expectation of network slice health assurance | ZTE Corporation | withdrawn | - | - |
| S5-234525 | Enhancement on 6.1 supporting solution to deliver a network slice subnet | ZTE Corporation | revised | S5-234155 | S5-234831 |
| S5-234526 | pCR 28.836 Add conclusion and recommendation for network slice service assurance | Huawei | approved | S5-234122 | - |
| S5-234527 | pCR 28.831 Alarm Subscription and Notification Key Issue | Samsung R&D Institute India, Ericsson | approved | S5-234178 | - |
| S5-234528 | Rel-18 pCR 28.831 Add conclusion for issue on createMOI | Nokia, Nokia Shanghai Bell | approved | S5-234245 | - |
| S5-234529 | Rel-18 pCR TR 28.831 Add a potential solution for KI for Advertising NRM properties by the MnS producer | Nokia, Nokia Shanghai Bell | approved | S5-233885 | - |
| S5-234530 | Rel-18 pCR TR 28.831 Add a new key issue for Advertising notifications supported by MnS producer | Nokia, Nokia Shanghai Bell | withdrawn | S5-233886 | - |
| S5-234531 | Rel-18 pCR TR 28.831 Add conclusion for KI Advertising NRM properties by MnS producer | Nokia, Nokia Shanghai Bell | not pursued | S5-234237 | - |
| S5-234532 | Rel-18 pCR TR 28.831 Add potential solution and conclusion for KI Advertising notifications supported by MnS producer | Nokia, Nokia Shanghai Bell | withdrawn | S5-234377 | - |
| S5-234533 | Rel-18 pCR 28.831 Add issue on partial success for WRITE operations (HTTP/JSON only) | Nokia, Nokia Shanghai Bell | approved | S5-234246 | - |
| S5-234534 | Rel-18 pCR 28.831 Clarify description of the HTTP error response FS\_eSBMAe\_WoP#3 | Nokia, Nokia Shanghai Bell | approved | S5-234247 | - |
| S5-234535 | pCR TR 28.841 update use case for NTN mobility management | China Telecommunications | approved | S5-234340 | - |
| S5-234536 | pCR TR 28.841 update solution#2 Potential solution for NTN Mobility Management enhancement with discontinuous satellite coverage | China Telecommunications | approved | S5-234341 | - |
| S5-234537 | Reply LS on MDT measurements collection in MR-DC | Huawei | withdrawn | S5-234134 | - |
| S5-234538 | Rel-18 pCR 28.829 7.1.2.1 Solution #1 correction | Samsung, Nokia,Deutsche Telekom | approved | S5-234063 | - |
| S5-234539 | Rel-18 pCR 28.829 6.3.3 Requirements clarification | Samsung, Nokia,Deutsche Telekom | approved | S5-234061 | - |
| S5-234540 | Rel-18 pCR 28.829 – Update 6.8po | Nokia | approved | S5-234364 | - |
| S5-234541 | Rel-18 pCR 28.829 – Corrections | Samsung, Nokia,Deutsche Telekom | approved | S5-234064 | - |
| S5-234542 | Rel-18 pCR 28.829 – Clean up | Samsung, Nokia,Deutsche Telekom | approved | S5-234065 | - |
| S5-234543 | pCR TR 28.835 Modify description, solution and add conclusion on issue #1 | China Unicom | approved | S5-234373 | - |
| S5-234544 | pCR TR 28.835 Modify description, solution and add conclusion on issue #3 | China Unicom | approved | S5-234374 | - |
| S5-234545 | pCR TR 28.835 Modify service-based management architecture for MOCN and add conclusion for issue #4 | China Unicom | approved | S5-234376 | - |
| S5-234546 | pCR TR 28.835 Modify potential solution and add conclusion for issue #5 | China Unicom | approved | S5-234388 | - |
| S5-234547 | Reply LS to ITU-T SG13 LS S5-233844 on Information and request of advice on the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective" (to: ITU-T Q20/13; cc: SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN; contact: Huawei) | SA5 | approved | S5-234296 | - |
| S5-234548 | Reply LS to S2-2304067 = S5-233839 on improved KPIs involving end-to-end data volume transfer time analytics | Samsung | not pursued | - | - |
| S5-234549 | Reply to ETSI ZSM S5-233845 work on AI enablers and intent-driven autonomous networks | Huawei | withdrawn | - | - |
| S5-234550 | Reply LS to O-RAN\_WG9\_S-2022003 = S5-233850 and S5-234493 on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 | Ericsson | revised | - | S5-234824 |
| S5-234551 | Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA | China Telecom | revised | - | S5-234826 |
| S5-234552 | pCR TR 28.830 Add description fault recovery related enhancement | Huawei, China Mobile | not pursued | S5-234295 | - |
| S5-234553 | pCR TR28.832 Add Conclusion and recommendation for issue#3 | China Unicom | approved | S5-234380 | - |
| S5-234554 | pCR TR28.832 Add Conclusion and recommendation for issue#5 | China Unicom | approved | S5-234382 | - |
| S5-234555 | TS28.541 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | agreed | S5-233970 | - |
| S5-234556 | pCR TR 28.842 Potential solution for discovery of stored management data | Microsoft Europe SARL | withdrawn | S5-234400 | - |
| S5-234557 | pCR TR28.842 Potential solution for retrieval of stored management data | Microsoft Europe SARL | withdrawn | S5-234401 | - |
| S5-234558 | pCR TR 28.842 add issue and potential solutions for external data management | Huawei, Deutsche Telekom | approved | S5-234079 | - |
| S5-234559 | pCR TR 28.913 Add key issues for Area based energy saving with AI technology | Huawei | not pursued | S5-234129 | - |
| S5-234560 | pCR TR 28.913 KI#1 Consideration of four types of metrics to estimate VNF Energy | Huawei, AT&T, Deutsche Telekom | approved | S5-234289 | - |
| S5-234561 | pCR TR 28.913 Add potential solution for Energy Efficiency KPI of URLLC Network Slice based on both reliability | China Unicom, Nokia | approved | S5-234392 | - |
| S5-234562 | Rel-18 pCR 28.913 Updates in Potential solution of clause 4.6.2.1 for EE | Samsung Electronics Czech | approved | S5-234414 | - |
| S5-234563 | Rel-18 pCR 28.913 Add Conclusion and Recommendation for Key Issue 6 | Samsung Electronics Czech | approved | S5-234415 | - |
| S5-234564 | pCR TR 28.824 Update scope clause | Huawei | approved | S5-234083 | - |
| S5-234565 | pCR TR 28.824 Modify conclusions and recommendations for management capability exposure in normative work | TELEFONICA S.A. | approved | S5-234068 | - |
| S5-234566 | pCR TR 28.824 Add conclusions and recommendations for NaaS ecosystem | TELEFONICA S.A. | approved | S5-234069 | - |
| S5-234567 | TR 28.863 Issue 3 Solution of KQIs for Video Uploading | Huawei | not pursued | S5-234166 | - |
| S5-234568 | pCR TR 28.863 Issue4 definition of Remote controll | Huawei | not pursued | S5-234168 | - |
| S5-234569 | pCR TR 28.865 Add description on TSN related analysis | Huawei | approved | S5-234300 | - |
| S5-234570 | pCR 28.903 Add new requirements and solution for federation management | AsiaInfo | approved | S5-233989 | - |
| S5-234571 | pCR 28.903 Federated EAS resource reservation management | Huawei | approved | S5-234124 | - |
| S5-234572 | pCR 28.903 rapporteur's cleanup | Huawei | approved | S5-234571 | - |
| S5-234573 | pCR 28.903 Conclusion and Recommendations for EAS relocation policies Key Issue | Samsung, Huawei | approved | S5-234227 | - |
| S5-234574 | pCR 28.903 Conclusion and Recommendations for Federation Management | Samsung, Huawei | approved | S5-234229 | - |
| S5-234575 | pCR 28.903 Federated EAS deployment and termination | Huawei, Samsung, AsiaInfo | approved | S5-234123 | - |
| S5-234576 | pCR 28.903 Modify requirements and solution for Application Resource | AsiaInfo | approved | S5-233991 | - |
| S5-234577 | pCR 28.903 solution for query available edge services | Huawei, Samsung | approved | S5-234125 | - |
| S5-234578 | pCR 28.903 update description of GSMA OPG | Huawei, Samsung | approved | S5-234126 | - |
| S5-234579 | pCR 28.903 Solution Conclusion and Recommendations for EDN Sharing | Samsung, Huawei | approved | S5-234231 | - |
| S5-234580 | pCR TS 28.317 Add concept, use case and requirements for network configuration data handling | China Mobile, Huawei | not pursued | S5-234137 | - |
| S5-234581 | pCR TS Correction of the requirements from mandatory to optional | Ericsson-LG Co., LTD | agreed | S5-234352 | - |
| S5-234582 | Input to Draft CR Rel-18 28.104 Add recommended actions for non-3GPP operations | Intel, NEC | not pursued | S5-234045 | - |
| S5-234583 | Rel-18 Input to draft CR TS 28.104 Enhancing MDARequest to request for analytics infinitely | Nokia, Nokia Shanghai Bell | approved | S5-233925 | - |
| S5-234584 | Rel-18 Input to draft CR TS 28.104 Prediction of PMs | Nokia, Nokia Shanghai Bell | approved | S5-233927 | - |
| S5-234585 | Rel-18 Input to draft CR TS 28.104 Filtering MDA Recommendations | Nokia, Nokia Shanghai Bell, Samsung R&D Institute UK | not pursued | S5-233926 | - |
| S5-234586 | Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telefonica | agreed | S5-233897 | - |
| S5-234587 | Update Procedure of Network Slice Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telefonica | agreed | S5-233898 | - |
| S5-234588 | Update Procedure of Network Slice Instance Deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | agreed | S5-233899 | - |
| S5-234589 | Update Procedure of Network Slice Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | agreed | S5-233900 | - |
| S5-234590 | Update Procedure of Network Slice Subnet Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell, Huawei, Telefonica, Ericsson | agreed | S5-233901 | - |
| S5-234591 | Update Procedure of network slice subnet instance deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | agreed | S5-233902 | - |
| S5-234592 | Update Procedure of Network Slice Subnet Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | agreed | S5-233903 | - |
| S5-234593 | CR to TS 28.105 on Enhancements to TS structure | NEC, Intel, Nokia | agreed | S5-234389 | - |
| S5-234594 | Reply LS to ETSI TC EE(23)000005 = S5-234441 on Information on ETSI EE monitoring standard and support from 3GPP SA5 (to: ETSI TC EE WG2; cc: ITU-T SG5 Q6, NGMN Green Future Networks; contact: Huawei) | SA5 | approved | - | - |
| S5-234595 | Rel-18 Input to draft CR TS 28.105 AI/ML inference abstract performance | Nokia, Nokia Shanghai Bell | not pursued | S5-233856 | - |
| S5-234596 | Rel-18 Input to draft CR TS 28.105 AI/ML inference performance evaluation | Nokia, Nokia Shanghai Bell, Huawei | revised | S5-233857 | S5-234827 |
| S5-234597 | Rel-18 Input to draft CR TS 28.105 AI/ML inference performance indicators selection | Nokia, Nokia Shanghai Bell | approved | S5-233866 | - |
| S5-234598 | Rel-18 Input to draft CR TS 28.105 AI/ML training performance management | Nokia, Nokia Shanghai Bell | revised | S5-233867 | S5-234828 |
| S5-234599 | Rel-18 CR 32.290 Correct the SCUR blocking-mode message flow | Huawei | agreed | S5-234210 | - |
| S5-234600 | Add the converged charging mapping | Huawei | agreed | S5-234211 | - |
| S5-234601 | Add the converged charging mapping | Huawei | agreed | S5-234286 | - |
| S5-234602 | Add the charging data transfer for the converged charging | Huawei | agreed | S5-234213 | - |
| S5-234603 | Add the charging data transfer for the converged charging | Huawei | agreed | S5-234214 | - |
| S5-234604 | Correction the description for the converged charging | Huawei | agreed | S5-234215 | - |
| S5-234605 | Correction the description for the converged charging | Huawei | agreed | S5-234216 | - |
| S5-234606 | Rel-17 CR 32.291 Correction of requested units | Ericsson LM | agreed | S5-234309 | - |
| S5-234607 | Rel-18 CR 32.291 Correction of requested units | Ericsson LM | agreed | S5-234310 | - |
| S5-234608 | Rel-17 CR 32.290 Correction of requested units | Ericsson LM | agreed | - | - |
| S5-234609 | Rel-18 CR 32.290 Correction of requested units | Ericsson LM | agreed | - | - |
| S5-234610 | Rel-17 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | agreed | S5-234312 | - |
| S5-234611 | Rel-18 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | agreed | S5-234313 | - |
| S5-234612 | Rel-17 CR 32.255 Correction of missing inter and intra PLMN mobility | Ericsson LM, Cisco Systems | agreed | S5-234315 | - |
| S5-234613 | Rel-17 CR 32.255 Correction of inter PLMN without Charging Identifier as string | Ericsson LM | agreed | S5-234316 | - |
| S5-234614 | Rel-17 CR 32.255 Correction of interworking with EPC and Charging Identifier as string | Ericsson LM | agreed | S5-234317 | - |
| S5-234615 | Rel-17 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | agreed | S5-234319 | - |
| S5-234616 | Rel-18 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | agreed | S5-234320 | - |
| S5-234617 | Update OpenAPI version | Huawei | email agreement | S5-234220 | - |
| S5-234618 | Update OpenAPI version | Huawei | email agreement | S5-234221 | - |
| S5-234619 | Rel-18 pCR 28.827 Update evaluation and conclusion in clause 7.2 | Huawei | approved | S5-234189 | - |
| S5-234620 | Rel-18 pCR 28.827 Correct errors in clause 7.2.4.1.3 | Huawei | approved | S5-234186 | - |
| S5-234621 | Rel-18 pCR 28.827 Resolve EN in solution #2.10 | Huawei | approved | S5-234187 | - |
| S5-234622 | Rel-18 pCR 28.827 Adding user reporting solution in clause 7.6 | Ericsson LM | approved | S5-234329 | - |
| S5-234623 | Rel-18 pCR 28.827 Adding conclusion in clause 7.6 | Ericsson LM, Huawei | approved | S5-234330 | - |
| S5-234624 | Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.3 | Ericsson LM | approved | S5-234331 | - |
| S5-234625 | Rel-18 pCR 28.827 Adding additional actor with CHF solution in clause 7.5 | Ericsson LM, Huawei | approved | S5-234333 | - |
| S5-234626 | Rel-18 pCR 28.827 Adding conclusion in clause 7.5 | Ericsson LM, Huawei | approved | S5-234334 | - |
| S5-234627 | Rel-18 pCR 28.839 Adding missing abbreviations and references | Ericsson LM | approved | S5-234337 | - |
| S5-234628 | Rel-18 pCR 28.839 Correcting exposure solution using NEF | Ericsson LM | approved | S5-234336 | - |
| S5-234629 | Rel18 pCR TR 28.839 Addition of the solution for the Enablers for TSC and TS Charging | Huawei | approved | S5-234193 | - |
| S5-234630 | Rel-18 pCR 28.839 Adding solution using charging from trusted AF and PEC | Ericsson LM | approved | S5-234335 | - |
| S5-234631 | Presentation of TR 28.839 for information | Huawei | approved | S5-234194 | - |
| S5-234632 | pCR TR 28.840 Update of the Overview | Nokia, Nokia Shanghai Bell | approved | S5-234008 | - |
| S5-234633 | Rel18 pCR TR28.843 Clarification on business roles | Huawei | approved | S5-234196 | - |
| S5-234634 | Rel18 pCR TR28.843 Addition of the solution about new TS for the charging architecture and principles | Huawei | approved | S5-234197 | - |
| S5-234635 | Rel18 pCR TR28.843 Addition of the solution about converged charging architecture | Huawei | approved | S5-234200 | - |
| S5-234636 | Rel18 pCR TR28.843 Addition of the solution about network slice tenant charging architecture | Huawei | approved | S5-234201 | - |
| S5-234637 | Rel18 pCR TR28.843 Addition of the solution about converged tenant charging architecture | Huawei | approved | S5-234202 | - |
| S5-234638 | Rel18 pCR TR28.843 Addition of the solution about CHF to CHF communication | Huawei | approved | S5-234203 | - |
| S5-234639 | Rel18 pCR TR28.843 Addition of the solution about NF to CHFs Communication | Huawei | approved | S5-234204 | - |
| S5-234640 | Rel18 pCR TR28.843 Addition of the solution about separated charging architecure | Huawei | approved | S5-234205 | - |
| S5-234641 | Rel18 pCR TR28.843 Addition of the use cases for architecture and charging principle investigation | Huawei | approved | S5-234206 | - |
| S5-234642 | Rel18 pCR TR28.843 Addition of mapping, evaluation and conclusion | Huawei | approved | S5-234207 | - |
| S5-234643 | Presentation of TR 28.843 for information | Huawei | approved | S5-234208 | - |
| S5-234644 | Cover sheet draft TR 28.824 | Alibaba | approved | - | - |
| S5-234649 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for update of ML Entities | Nokia, Nokia Shanghai Bell, Huawei | approved | S5-233878 | - |
| S5-234650 | Input to DraftCR 28.105 Enhance the ML training to include re-training | Intel, NEC, Nokia, Huawei | revised | S5-234050 | S5-234833 |
| S5-234651 | Reply LS to ITU-T SG13-LS80 = S5-233843 on Y.3159 "Framework for classifying network slice level in future networks includin"g IMT-2020" (to: ITU-T SG13/Q21; cc: SA2, GSMA; contact: BT) | SA5 | approved | - | - |
| S5-234652 | Rel18 Input to draft CR TS28.105 Use case and requirements for sharing information for Orchestrating AI/ML Inference | Nokia, Nokia Shanghai Bell | not pursued | S5-233860 | - |
| S5-234653 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for ML Testing | Nokia, Nokia Shanghai Bell, Intel, NEC | approved | S5-233862 | - |
| S5-234654 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for joint testing of multiple ml entities | Nokia, Nokia Shanghai Bell, CATT | revised | S5-233858 | S5-234829 |
| S5-234655 | Rel-18 draft CR TS 28.105 Use case and requirements for ML Inference emulation | Nokia, Nokia Shanghai Bell | not pursued | S5-233865 | - |
| S5-234656 | Discussion on ML Entity modelling | Nokia, Nokia Shanghai Bell | endorsed | S5-233916 | - |
| S5-234657 | Rel-18 CR TS 28.105 Modelling ML Entity | Nokia, Nokia Shanghai Bell | agreed | S5-233928 | - |
| S5-234658 | Input to DraftCR 28.105 Add UC and requirements for ML entity joint training | Intel, NEC, Nokia, Deutsche Telekom, CATT | approved | S5-234051 | - |
| S5-234659 | Input to DraftCR 28.105 Add AI-ML workflow | Intel, NEC | approved | S5-234047 | - |
| S5-234660 | Rel-18 CR TS 28.312 Clarify how generic provisioning MnS can be used for intent lifecycle management | Huawei,Nokia Deutsche Telekom | agreed | S5-233910 | - |
| S5-234661 | Add use case and requirements for intent driven approach for radio network capacity optimization | Huawei,Deutsche Telekom | agreed | S5-233913 | - |
| S5-234662 | Adding new UC for 5GC subnetwork delivery | AsiaInfo, Huawei | revised | S5-234118 | S5-234835 |
| S5-234663 | Reply to S5-233276 and S5-233277 on enhanced intent driven management services for mobile networks (ETSI ISG ZSM(23)000104r1; to: SA5; cc: -; contact: Nokia) | ETSI ISG ZSM | replied to | - | - |
| S5-234664 | Add general concept and requirements for intent report | Huawei, Deutsche Telekom | agreed | S5-233915 | - |
| S5-234665 | Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information | ZTE Corporation | revised | S5-234249 | S5-234832 |
| S5-234666 | Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance | AsiaInfo | revised | S5-233987 | S5-234834 |
| S5-234667 | Add new capabilities for intent driven management for Intent fulfilment feasibility checks | AsiaInfo | agreed | S5-233988 | - |
| S5-234668 | Rel18 CR 28312 Use case and Requirements Intent-driven Closed Loop control | Nokia, Nokia Shangai Bell | not pursued | S5-233871 | - |
| S5-234669 | Update description related to intent driven closed loop | Huawei | withdrawn | - | - |
| S5-234670 | Rel-18 CR TS 28.312 Add general concept and requirements for intent conflict | Nokia, Nokia Shangai Bell, Huawei | not pursued | S5-234163 | - |
| S5-234671 | Rel-18 CR TS 28.312 information model change to support intent priorities | Nokia, Nokia Shangai Bell, DOCOMO | not pursued | S5-233877 | - |
| S5-234672 | Rel-18 CR TS 28.312 add procedure of intent conflict resolution based on intent preemption | NTT DOCOMO | withdrawn | - | - |
| S5-234673 | Rel-18 CR TS 28.312 information model change to support intent preemption attributes | NTT DOCOMO | withdrawn | - | - |
| S5-234674 | Remove concept of intent validation | Huawei | agreed | S5-234115 | - |
| S5-234675 | Rel18 CR 28312 Use case and Requirements on expectation for network optimization | Nokia, Nokia Shangai Bell | agreed | S5-233875 | - |
| S5-234676 | TS28.541 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | agreed | S5-233971 | - |
| S5-234677 | TS28.541 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | agreed | S5-233972 | - |
| S5-234678 | Rel-18 draftCR 28.541 Add NRM enhancements for NWDAFFunction | China Telecommunication | noted | - | - |
| S5-234679 | Rel-18 CR 28.552 Add measurements related to the coordination between multiple NWDAFs | China Telecommunication | agreed | S5-234145 | - |
| S5-234680 | Rel-18 CR 28 552 Add performance measurement related with number of notifications for NWDAF data collection | China Mobile Com. Corporation | agreed | S5-234283 | - |
| S5-234681 | Rel-18 CR 28 552 Add performance measurement related with number of subscriptions for NWDAF data collection | China Mobile Com. Corporation | agreed | S5-234284 | - |
| S5-234682 | Rel-18 CR 28 552 Add use case of the performance measurement for NWDAF data collection | China Mobile | agreed | S5-234285 | - |
| S5-234683 | Add use case of time consumption of NWDAF providing analytcis service information | China Telecom | agreed | S5-234142 | - |
| S5-234684 | Rel-18 CR 28.552 Add time consumption of NWDAF providing analytcis service information | China Telecommunication | agreed | S5-234143 | - |
| S5-234685 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service provisioning | China Telecommunication | agreed | S5-234146 | - |
| S5-234686 | Rel-18 CR 28.552 Add measurements related to the NWDAF service provisioning | China Telecommunication | agreed | S5-234147 | - |
| S5-234687 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service failure | China Telecommunication | agreed | S5-234148 | - |
| S5-234688 | Rel-18 CR 28.552 Add measurements related to the NWDAF service failure | China Telecommunication | agreed | S5-234149 | - |
| S5-234689 | TS28.541 Rel-18 NRM enhancements to support 5GLAN management | China Mobile | not pursued | S5-234233 | - |
| S5-234690 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for SMF | Huawei | agreed | S5-234120 | - |
| S5-234691 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for UPF | Huawei | agreed | S5-234121 | - |
| S5-234692 | Rel-18 CR 28.552 Add a use case for 5GLAN measurements | China Mobile | agreed | S5-234238 | - |
| S5-234693 | Rel-18 CR 28.552 Update group-level N4 session measurements of SMF for 5GLAN | China Mobile | agreed | S5-234239 | - |
| S5-234694 | Rel-18 CR 28.552 Update QoS flow related measurements of UPF for 5GLAN | China Mobile | agreed | S5-234251 | - |
| S5-234695 | Rel-18 CR 28.554 Add a use case for 5G VN group measurements related KPIs | China Mobile | agreed | S5-234256 | - |
| S5-234696 | Rel-18 CR 28.554 Add Accessibility KPIs for 5G VN group measurements | China Mobile | agreed | S5-234260 | - |
| S5-234697 | Reply to ETSI ISG ZSM(23)000104r1 = S5-234663 on enhanced intent driven management services for mobile networks (to: ETSI ISG ZSM; cc: -, contact: Huawei) | SA5 | approved | - | - |
| S5-234698 | Discussion paper on isolation and sharing | L.M. Ericsson Limited, Deutsche Telekom, Telefonica, Huawei | revised | S5-234158 | S5-234817 |
| S5-234699 | Rel-18 CR 28.541 Add network slice selection and sharing information | L.M. Ericsson Limited, Deutsche Telekom | withdrawn | - | - |
| S5-234700 | Add NRM for network slice isolation | Nokia, Nokia Shanghai Bell | not pursued | S5-234290 | - |
| S5-234701 | Rel-18 CR TS 28.552 Add Reference for “DL PDCP buffered throughput per UE per DRB” | Nokia, Nokia Shanghai Bell | agreed | S5-233932 | - |
| S5-234702 | Rel-18 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity | Samsung Electronics Czech | agreed | S5-234417 | - |
| S5-234703 | Rel-18 CR TS 28.552 Add Cross Link Interference related performance measurement | China Telecomunication Corp. | agreed | S5-234089 | - |
| S5-234704 | New measurement “In-session activity time per RAT” | Apple | not pursued | S5-234425 | - |
| S5-234705 | New KPI “NR and E-UTRAN in-session retention rate” | Apple | not pursued | S5-234426 | - |
| S5-234706 | New measurement “Successful RRC connection establishments per RAT” | Apple | not pursued | S5-234427 | - |
| S5-234707 | New KPI “RRC Retainability” | Apple | not pursued | S5-234428 | - |
| S5-234708 | New KPI “NR and EUTRAN RRC retention rate” | Apple | not pursued | S5-234430 | - |
| S5-234709 | New measurement “DL PDCP SDU Data Volume per RAT” | Apple | not pursued | S5-234432 | - |
| S5-234710 | New KPI “NR and EUTRAN data volume retention rate” | Apple | not pursued | S5-234433 | - |
| S5-234711 | Rel-18 CR TS 28.550 Enhance the streaming format of PM | Nokia, Nokia Shanghai Bell | not pursued | S5-233929 | - |
| S5-234712 | Add information elements related to fault management | Huawei | not pursued | S5-234111 | - |
| S5-234713 | Add information elements related to service experience analysis | Huawei | agreed | S5-234112 | - |
| S5-234714 | Add new IOC to support granular access control | Huawei | withdrawn | - | - |
| S5-234715 | Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining | Huawei, Deutsche Telekom | revised | S5-233914 | S5-234836 |
| S5-234716 | InputToDraftCR Rel-18 28.533 on Access control for management service | Nokia, Nokia Shanghai Bell, Telefonica, Deutsche Telekom, Huawei | approved | S5-234381 | - |
| S5-234717 | TS 28.317 v0.4.0 on Management and orchestration;Self-configuration of Radio Access Network Entities (RAN NEs) | CMCC | email agreement | - | - |
| S5-234718 | TR 28.824 v0.12.0 on Study on on network slice management capability exposure | Alibaba | email agreement | - | - |
| S5-234719 | TR 28.829 v1.2.0 on Study on network and service operations for energy utilities | Samsung | email agreement | - | - |
| S5-234720 | TR 28.830 v0.5.0 on Study on Fault Supervision Evolution | CMCC | withdrawn | - | - |
| S5-234721 | TR 28.831 v0.8.0 on Study on basic Service-Based Management Architecture (SBMA) enabler enhancements | Nokia | email agreement | - | - |
| S5-234722 | TR 28.832 v0.7.0 on Study on management aspects of Ultra-Reliable and Low Latency Communication (URLLC) | China Unicom | email agreement | - | - |
| S5-234723 | TR 28.835 v0.7.0 on Study on management aspects of 5G Multiple Operator Core Network (MOCN) network sharing phase2 | China Unicom | email agreement | - | - |
| S5-234724 | TR 28.836 v0.6.0 on Study on intent-driven management for network slicing | Ericsson | email agreement | - | - |
| S5-234725 | TR 28.837 v0.8.0 on Study on management of trace/ Minimization of Drive Tests (MDT) phase 2 | Nokia | email agreement | - | - |
| S5-234726 | TR 28.841 v0.6.0 on Study on management aspects of IoT NTN enhancements | China Unicom | email agreement | - | - |
| S5-234727 | TR 28.842 v0.4.0 on Study on data management phase 2 | Nokia | email agreement | - | - |
| S5-234728 | TR 28.863 v0.7.0 on Study on Key Quality Indicators (KQIs) for 5G service experience | Huawei | withdrawn | - | - |
| S5-234729 | TR 28.865 v0.5.0 on Study on Deterministic Communication Service Assurance (DCSA) | Huawei | email agreement | - | - |
| S5-234730 | TR 28.903 v0.7.0 on Study on alignment with ETSI Mobile Edge Computing (MEC) for Edge computing management | Huawei | email agreement | - | - |
| S5-234731 | TR 28.909 v0.3.0 on Study on evaluation of autonomous network levels | CMCC | withdrawn | - | - |
| S5-234732 | TR 28.910 v0.6.0 on Study on enhancement of autonomous network levels | CMCC | withdrawn | - | - |
| S5-234733 | TR 28.913 v0.7.0 on Study on new aspects of EE for 5G networks phase 2 | Huawei | email agreement | - | - |
| S5-234734 | TR 28.925 v0.11.0 on Study on enhancement of service based management architecture | Huawei | email agreement | - | - |
| S5-234735 | Rel18 CR TS28.541 NRM enhancements for NRFFunction | Nokia, Nokia Shanghai Bell | agreed | S5-233958 | - |
| S5-234736 | pCR TR28.836 Add solution for intent expectation for network slice delivering and assurance | Huawei, Deutsche Telekom,China Mobile | approved | S5-234076 | - |
| S5-234737 | pCR 28.836 Add alternatives and evaluation to 6.2.2 | L.M. Ericsson Limited, Deutsche Telekom | not pursued | S5-234160 | - |
| S5-234738 | Rel18 CR TS28.541 NRM enhancements for CHFFunction | Nokia, Nokia Shanghai Bell | agreed | S5-233959 | - |
| S5-234739 | Rel18 CR TS28.541 NRM enhancements for MFAFFunction | Nokia, Nokia Shanghai Bell | agreed | S5-233960 | - |
| S5-234740 | Rel18 CR TS28.541 NRM enhancements for DCCFunction | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-234741 | TS28.541 Rel18 Corrections to missing properties for a few attributes | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S5-234742 | Rel18 CR TS28.541 Improve EP\_Transport model to clarify connection point info | Nokia, Nokia Shanghai Bell, Ericsson, TELUS, KDDI, Verizon, Telefonica, Huawei | agreed | S5-233969 | - |
| S5-234743 | Add use case and requirements for NPN fault management | Huawei | agreed | S5-234170 | - |
| S5-234744 | pCR TR 28.909 Add potential solution for NRM fragment for autonomous network evaluation | Huawei, China Mobile,Deutsche Telekom | not pursued | S5-234255 | - |
| S5-234745 | pCR TR 28.909 Add potential KEI for fault management | China Mobile, Huawei | not pursued | S5-234177 | - |
| S5-234746 | Netconf with-defaults | Ericsson Hungary Ltd | agreed | S5-233820 | - |
| S5-234747 | Netconf with-defaults | Ericsson Hungary Ltd | agreed | S5-233819 | - |
| S5-234748 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | not pursued | S5-233825 | - |
| S5-234749 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | not pursued | S5-233826 | - |
| S5-234750 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | not pursued | S5-233827 | - |
| S5-234751 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | not pursued | S5-233828 | - |
| S5-234752 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | agreed | S5-233882 | - |
| S5-234753 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | agreed | S5-233883 | - |
| S5-234754 | Rel-16 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | agreed | S5-234004 | - |
| S5-234755 | Rel-17 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | agreed | S5-234011 | - |
| S5-234756 | Rel-16 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | agreed | S5-234014 | - |
| S5-234757 | Rel-17 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | agreed | S5-234015 | - |
| S5-234758 | Rel-16 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shanghai Bell | agreed | S5-234018 | - |
| S5-234759 | Rel-17 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shnaghai Bell | agreed | S5-234021 | - |
| S5-234760 | Rel18\_CR\_28312 Use case and Requirements on Testing Intent MnS Capabilities | Nokia, Nokia Shangai Bell | not pursued | S5-233872 | - |
| S5-234761 | Rel18\_CR\_28312 Use case and Requirements on Mapping Intents to ML capabilities | Nokia, Nokia Shangai Bell | not pursued | S5-233873 | - |
| S5-234762 | Rel-16 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | agreed | S5-234030 | - |
| S5-234763 | Rel-17 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | agreed | S5-234031 | - |
| S5-234764 | Rel-18 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | agreed | S5-234032 | - |
| S5-234765 | Clarify AlarmList locking | Ericsson Hungary Ltd | not pursued | S5-234033 | - |
| S5-234766 | Clarify AlarmList locking | Ericsson Hungary Ltd | not pursued | S5-234034 | - |
| S5-234767 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | not pursued | S5-234035 | - |
| S5-234768 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | not pursued | S5-234036 | - |
| S5-234769 | Correction of reference and alarm information | Ericsson | withdrawn | - | - |
| S5-234770 | Correction of RFC references and alarm information | Ericsson | withdrawn | - | - |
| S5-234771 | Correction of RFC references, and alarm information | Ericsson | withdrawn | - | - |
| S5-234772 | Move Attibute definitions to UML repertoire | Ericsson Hungary Ltd | agreed | S5-234303 | - |
| S5-234773 | Rel-18 CR 32.156 Move Attribute definitions to UML repertoire | Ericsson-LG Co., LTD | agreed | S5-234348 | - |
| S5-234774 | Rel-17 CR 28.532 Clarify streaming data reporting service definitions | Ericsson Inc. | agreed | S5-234375 | - |
| S5-234775 | Correction of attributes in MDAOutputs dataType | Huawei | agreed | S5-234101 | - |
| S5-234776 | LS on Security for AI ML trustworthiness management (to: SA3; cc: -; contact: Nokia) | Nokia, Nokia Shanghai Bell | approved | S5-234167 | - |
| S5-234777 | Rel-17 TS 28.105 Correction of the figure for ML training function | Ericsson-LG Co., LTD | agreed | S5-234355 | - |
| S5-234778 | CR TS28.104 Corrections of the requirements on MDA capability | NEC, Intel | agreed | S5-234424 | - |
| S5-234779 | Rel-17 CR TS 28.105 Correcting the attribute properties | Nokia, Nokia Shanghai Bell | agreed | S5-233922 | - |
| S5-234780 | Rel-17 CR TS 28.312 Correct the supported qualifier for ExpectationObject and allowed value for contextCondition | Huawei, Nokia, Deutsche Telekom, China Mobile Com. Corporation, ZTE | agreed | S5-233992 | - |
| S5-234781 | Rel-17 CR TS 28.312 Separate YAML file for generic Information model definition and scenario specific IntentExpectation definition | Huawei | agreed | S5-233994 | - |
| S5-234782 | Rel-17 CR TS 28.312 Correct the errors in Table 6.2.2.2-1 | Huawei | agreed | S5-233995 | - |
| S5-234783 | Rel-17 CR TS 28.312 Intent Context and Expectation object support for multiple data types | Nokia, Nokia Shanghai Bell, CMCC, ZTE | withdrawn | S5-234029 | - |
| S5-234784 | Rel-17 CR 28.312 Fixing documentation and allowed value bug in contextValueRange attribute | China Mobile Com. Corporation | agreed | S5-234235 | - |
| S5-234785 | Rel-17 CR 28.312 Clarify the definition of intent expectation fulfilment | L.M. Ericsson Limited, Deutsche Telekom | agreed | S5-234156 | - |
| S5-234786 | Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes | China Mobile Com. Corporation | not pursued | S5-234351 | - |
| S5-234787 | Add use case of MDA assisted virtual resource utilization analysis in CN domain | Huawei | not pursued | S5-234113 | - |
| S5-234788 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | not pursued | S5-233892 | - |
| S5-234789 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | not pursued | S5-233893 | - |
| S5-234790 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | agreed | S5-233904 | - |
| S5-234791 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | agreed | S5-233905 | - |
| S5-234792 | Rel-17 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | agreed | S5-233996 | - |
| S5-234793 | Rel-18 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | agreed | S5-233997 | - |
| S5-234794 | Clarify network slicing provisioning use case | Ericsson | agreed | S5-234016 | - |
| S5-234795 | Clarify network slicing provisioning use case | Ericsson | agreed | S5-234017 | - |
| S5-234796 | Clarify network slicing provisioning use case | Ericsson | agreed | S5-234019 | - |
| S5-234797 | Clarify network slicing provisioning use case | Ericsson | agreed | S5-234020 | - |
| S5-234798 | Rel18 Input To DraftCR\_28105 Coordination between the ML capabilities | Nokia, Nokia Shanghai Bell, TELUS | withdrawn | S5-233947 | - |
| S5-234799 | Rel18 Input To DraftCR\_28105 Training data effectiveness reporting and analytics | Nokia, Nokia Shanghai Bell | not pursued | S5-233950 | - |
| S5-234800 | Revised SID: Study on Basic SBMA enabler enhancements | Nokia | agreed | - | - |
| S5-234801 | TS28.541 Rel16 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | agreed | S5-233965 | - |
| S5-234802 | TS28.541 Rel17 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | agreed | S5-233966 | - |
| S5-234803 | TS28.541 Rel18 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | agreed | S5-233967 | - |
| S5-234804 | R18 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT | China Telecom Corporation Ltd., Huawei | not pursued | S5-234099 | - |
| S5-234805 | Rel-18 CR TS 28.623 Correcting the min and max Items possible for fiveQIValue attribute in Stage 3 | Nokia, Nokia Shanghai Bell | agreed | S5-233936 | - |
| S5-234806 | New Rel-18 WID on Management Aspects of URLLC | China Unicom | agreed | S5-234379 | - |
| S5-234807 | Rel-18 Input to Draft CR TS 28.105 Use case and requirements for Capabilities of ML Entities | Nokia, Nokia Shanghai Bell | approved | S5-233941 | - |
| S5-234808 | TS28.532 Rel16 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | agreed | S5-233983 | - |
| S5-234809 | TS28.532 Rel17 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | agreed | S5-233984 | - |
| S5-234810 | Rel-16 CR 28.532 clarification on notification target | Huawei | agreed | S5-234103 | - |
| S5-234811 | Rel-17 CR 28.541 fixing coverageArea | Samsung R&D Institute India | agreed | S5-234232 | - |
| S5-234812 | Rel-18 CR 28.541 fixing coverageArea | Samsung R&D Institute India | agreed | S5-234234 | - |
| S5-234813 | Rel-18 CR for TS28.310 editorial Corrections | ZTE Corporation | agreed | S5-234418 | - |
| S5-234814 | Rel-18 CR for TS28.541 several editorial Corrections | ZTE Corporation | agreed | S5-234423 | - |
| S5-234815 | Correct EAS to connect to UPF procedure | Huawei | agreed | S5-234105 | - |
| S5-234816 | Correct EAS to connect to UPF procedure | Huawei | agreed | S5-234108 | - |
| S5-234817 | Discussion paper on isolation and sharing | L.M. Ericsson Limited, Deutsche Telekom | not pursued | S5-234698 | - |
| S5-234818 | Input to Draft CR Rel-18 28.104 Add MDA capability for resource utilization analysis | Intel, NEC | approved | S5-234044 | - |
| S5-234819 | Input to DraftCR 28.105 Add terms related to ML training | Intel, NEC | approved | S5-234046 | - |
| S5-234820 | Input to DraftCR 28.105 Add UC and requirements for ML validation | Intel, NEC | approved | S5-234048 | - |
| S5-234821 | Input to DraftCR 28.105 Enhance the NRMs to support ML validation | Intel, NEC, Nokia | approved | S5-234049 | - |
| S5-234822 | Input to DraftCR 28.105 Add NRMs for ML entity testing | Intel, NEC, Nokia, CATT | approved | S5-234054 | - |
| S5-234823 | SA5 Collection of Rel-19 potential topics for SA workshop preparation | SA5 Vice chair (Huawei) | endorsed | S5-234495 | - |
| S5-234824 | Reply LS to O-RAN\_WG9\_S-2022003 =S5-233850 and O-RAN\_WG9\_S-2023005 = S5-234493 on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 (to: cc: SA, SA3, RAN; contact: Ericsson) | SA5 | approved | S5-234550 | - |
| S5-234825 | New Work Item on Network and Service Operations for Energy Utilities | Samsung, EUTC, EDF, BMWK, Deutsche Telekom, Huawei, Ericsson, NOVAMINT, Vodafone, China Mobile | agreed | S5-234056 | - |
| S5-234826 | Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA | China Telecom | revised | S5-234551 | S5-234839 |
| S5-234827 | Rel-18 Input to draft CR TS 28.105 AI/ML inference performance evaluation | Nokia, Nokia Shanghai Bell | approved | S5-234596 | - |
| S5-234828 | Rel-18 Input to draft CR TS 28.105 AI/ML training performance management | Nokia, Nokia Shanghai Bell | approved | S5-234598 | - |
| S5-234829 | Rel-18 Input to draft CR TS 28.105 Use case and requirements for joint testing of multiple ml entities | Nokia, Nokia Shanghai Bell, CATT | approved | S5-234654 | - |
| S5-234830 | Slice-aware charging for Roaming partners | MATRIXX Software | agreed | S5-234459 | - |
| S5-234831 | Enhancement on 6.1 supporting solution to deliver a network slice subnet | ZTE Corporation | approved | S5-234525 | - |
| S5-234832 | Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information | ZTE Corporation | agreed | S5-234665 | - |
| S5-234833 | Input to DraftCR 28.105 Enhance the ML training to include re-training | Intel, NEC, Nokia, Huawei, CATT | approved | S5-234650 | - |
| S5-234834 | Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance | AsiaInfo, Huawei | not pursued | S5-234666 | - |
| S5-234835 | Adding new UC for 5GC subnetwork delivery | AsiaInfo, Huawei | agreed | S5-234662 | - |
| S5-234836 | Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining | Huawei, Deutsche Telekom | agreed | S5-234715 | - |
| S5-234837 | Rel-17 CR TS 28.105 Grammatical Corrections | Nokia, Nokia Shanghai Bell | agreed | S5-234037 | - |
| S5-234838 | Presentation of TR 28.836 v1.0.0 for information | Ericsson | approved | - | - |
| S5-234839 | Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA (to:RAN3; cc: -; contact: China Telecom) | China Telecom | approved | S5-234826 | - |
| S5-234840 | Presentation sheet of TR 28.835 for Approval | China Unicom | approved | S5-234378 | - |
| S5-234841 | Presentation Sheet of TR 28.832 for SA Approval | China Unicom | approved | S5-234385 | - |
| S5-234842 | Presentation of TR 28.913 to TSG SA for Information and Approval | Huawei | withdrawn | - | - |
| S5-234843 | pCR TR 28.925 Add conclusion and recommendation for issue#9 Improvement on the management function description | Huawei | approved | S5-234243 | - |
| S5-234844 | Presentation of Report to TSG for approval: TR 28.829, Version 2.0.0 | Samsung (Rapporteur) | approved | S5-234066 | - |
| S5-234845 | DraftCR 28.533 on Access control for management service | Nokia | approved | - | - |
| S5-234846 | Draft CR eMDAS\_Ph2 – TS28.104; Further enhancements into the Management Data Analytics (Phase 2) | Intel | approved | - | - |
| S5-234847 | Draft CR AIML\_MGMT – TS 28.105; Enhancements for AI-ML management | Intel | approved | - | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S5-233800 | 22/05/2023 07:00:41 | approved |
| S5-233801 | 22/05/2023 07:01:40 | noted |
| S5-233802 | 22/05/2023 09:07:25 | approved |
| S5-233804 | 26/05/2023 07:33:40 | noted |
| S5-233805 | 24/05/2023 11:52:33 | noted |
| S5-233806 | 26/05/2023 07:34:02 | noted |
| S5-233807 | 26/05/2023 07:34:06 | noted |
| S5-233808 | 24/05/2023 08:01:57 | revised |
| S5-233809 | 21/05/2023 12:21:43 | withdrawn |
| S5-233810 | 26/05/2023 07:07:18 | noted |
| S5-233811 | 26/05/2023 07:14:14 | noted |
| S5-233812 | 24/05/2023 11:52:52 | noted |
| S5-233813 | 26/05/2023 07:34:22 | reserved |
| S5-233813 | 05/06/2023 12:32:54 | noted |
| S5-233814 | 24/05/2023 11:49:01 | noted |
| S5-233815 | 26/05/2023 07:33:15 | noted |
| S5-233816 | 26/05/2023 07:34:29 | noted |
| S5-233817 | 25/05/2023 07:47:31 | agreed |
| S5-233818 | 25/05/2023 07:49:12 | agreed |
| S5-233819 | 25/05/2023 07:56:37 | revised |
| S5-233820 | 25/05/2023 07:56:15 | revised |
| S5-233821 | 25/05/2023 08:05:09 | not pursued |
| S5-233822 | 22/05/2023 12:12:38 | revised |
| S5-233823 | 22/05/2023 14:58:44 | merged |
| S5-233824 | 22/05/2023 14:50:01 | merged |
| S5-233825 | 25/05/2023 08:10:06 | revised |
| S5-233826 | 25/05/2023 08:13:11 | revised |
| S5-233827 | 25/05/2023 08:13:39 | revised |
| S5-233828 | 25/05/2023 08:13:57 | revised |
| S5-233829 | 21/05/2023 08:43:35 | merged |
| S5-233830 | 22/05/2023 10:02:34 | postponed |
| S5-233830 | 31/05/2023 09:11:16 | noted |
| S5-233831 | 24/05/2023 11:53:19 | agreed |
| S5-233831 | 24/05/2023 11:53:21 | noted |
| S5-233832 | 24/05/2023 11:53:23 | noted |
| S5-233833 | 24/05/2023 15:57:05 | noted |
| S5-233834 | 24/05/2023 15:44:33 | postponed |
| S5-233834 | 31/05/2023 09:10:59 | noted |
| S5-233834 | 31/05/2023 09:11:06 | postponed |
| S5-233835 | 24/05/2023 15:45:05 | postponed |
| S5-233836 | 22/05/2023 17:29:45 | replied to |
| S5-233836 | 26/05/2023 07:40:38 | postponed |
| S5-233837 | 24/05/2023 17:55:53 | replied to |
| S5-233837 | 26/05/2023 07:41:00 | postponed |
| S5-233838 | 24/05/2023 15:46:02 | postponed |
| S5-233839 | 22/05/2023 17:20:48 | revised |
| S5-233839 | 22/05/2023 17:21:19 | replied to |
| S5-233839 | 26/05/2023 07:42:05 | postponed |
| S5-233840 | 26/05/2023 03:58:26 | postponed |
| S5-233841 | 24/05/2023 15:48:11 | postponed |
| S5-233841 | 24/05/2023 15:51:19 | noted |
| S5-233841 | 26/05/2023 07:43:09 | postponed |
| S5-233842 | 24/05/2023 15:51:56 | noted |
| S5-233843 | 24/05/2023 07:05:04 | replied to |
| S5-233844 | 24/05/2023 17:54:02 | replied to |
| S5-233845 | 22/05/2023 17:23:01 | replied to |
| S5-233845 | 26/05/2023 07:46:24 | postponed |
| S5-233846 | 26/05/2023 03:59:10 | replied to |
| S5-233847 | 24/05/2023 15:54:57 | postponed |
| S5-233848 | 24/05/2023 11:53:41 | noted |
| S5-233849 | 24/05/2023 15:46:59 | postponed |
| S5-233850 | 22/05/2023 17:27:16 | replied to |
| S5-233851 | 26/05/2023 07:32:36 | noted |
| S5-233852 | 24/05/2023 16:00:09 | postponed |
| S5-233852 | 24/05/2023 16:01:08 | noted |
| S5-233853 | 26/05/2023 04:00:20 | replied to |
| S5-233854 | 22/05/2023 08:08:57 | revised |
| S5-233855 | 23/05/2023 14:46:40 | noted |
| S5-233856 | 23/05/2023 15:20:09 | revised |
| S5-233857 | 23/05/2023 15:28:51 | revised |
| S5-233858 | 24/05/2023 09:04:58 | revised |
| S5-233860 | 24/05/2023 07:13:53 | revised |
| S5-233861 | 24/05/2023 07:14:32 | postponed |
| S5-233861 | 31/05/2023 09:12:15 | noted |
| S5-233862 | 24/05/2023 07:32:42 | revised |
| S5-233863 | 26/05/2023 10:34:52 | not pursued |
| S5-233864 | 24/05/2023 09:37:45 | postponed |
| S5-233864 | 31/05/2023 09:12:22 | noted |
| S5-233865 | 24/05/2023 09:30:50 | revised |
| S5-233866 | 23/05/2023 15:43:42 | revised |
| S5-233867 | 23/05/2023 15:49:42 | revised |
| S5-233868 | 24/05/2023 07:34:23 | merged |
| S5-233868 | 24/05/2023 07:42:47 | available |
| S5-233868 | 26/05/2023 10:01:51 | approved |
| S5-233868 | 26/05/2023 10:05:30 | endorsed |
| S5-233868 | 26/05/2023 10:05:33 | merged |
| S5-233869 | 26/05/2023 10:34:42 | not pursued |
| S5-233870 | 24/05/2023 06:16:54 | postponed |
| S5-233871 | 24/05/2023 12:56:57 | revised |
| S5-233872 | 25/05/2023 09:22:23 | revised |
| S5-233873 | 25/05/2023 09:22:32 | revised |
| S5-233874 | 24/05/2023 14:16:18 | not pursued |
| S5-233875 | 24/05/2023 14:20:34 | revised |
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| S5-233878 | 24/05/2023 06:35:44 | revised |
| S5-233879 | 21/05/2023 08:44:05 | merged |
| S5-233880 | 21/05/2023 08:44:21 | merged |
| S5-233882 | 25/05/2023 08:16:40 | revised |
| S5-233883 | 25/05/2023 08:17:03 | revised |
| S5-233885 | 22/05/2023 15:29:13 | revised |
| S5-233886 | 22/05/2023 15:29:54 | revised |
| S5-233887 | 26/05/2023 08:24:38 | agreed |
| S5-233887 | 26/05/2023 09:08:06 | not pursued |
| S5-233888 | 26/05/2023 08:24:44 | agreed |
| S5-233888 | 26/05/2023 09:08:25 | not pursued |
| S5-233889 | 26/05/2023 08:24:48 | agreed |
| S5-233889 | 26/05/2023 09:08:34 | not pursued |
| S5-233890 | 25/05/2023 12:46:51 | postponed |
| S5-233891 | 25/05/2023 12:46:58 | postponed |
| S5-233892 | 25/05/2023 14:11:20 | revised |
| S5-233893 | 25/05/2023 14:14:47 | revised |
| S5-233894 | 25/05/2023 14:16:18 | postponed |
| S5-233895 | 25/05/2023 14:16:23 | postponed |
| S5-233896 | 26/05/2023 13:00:30 | agreed |
| S5-233897 | 23/05/2023 14:10:44 | revised |
| S5-233898 | 23/05/2023 14:28:40 | revised |
| S5-233899 | 23/05/2023 14:36:02 | revised |
| S5-233900 | 23/05/2023 14:36:52 | revised |
| S5-233901 | 23/05/2023 14:42:59 | revised |
| S5-233902 | 23/05/2023 14:43:29 | revised |
| S5-233903 | 23/05/2023 14:43:34 | revised |
| S5-233904 | 25/05/2023 14:28:50 | agreed |
| S5-233904 | 25/05/2023 14:31:51 | revised |
| S5-233905 | 25/05/2023 14:38:23 | revised |
| S5-233906 | 25/05/2023 14:40:52 | agreed |
| S5-233907 | 25/05/2023 14:40:56 | agreed |
| S5-233908 | 25/05/2023 14:41:50 | agreed |
| S5-233909 | 25/05/2023 14:41:52 | agreed |
| S5-233910 | 24/05/2023 10:20:59 | revised |
| S5-233911 | 24/05/2023 10:22:51 | agreed |
| S5-233912 | 24/05/2023 10:23:44 | agreed |
| S5-233913 | 24/05/2023 10:26:19 | revised |
| S5-233914 | 24/05/2023 17:32:02 | revised |
| S5-233915 | 24/05/2023 12:28:04 | revised |
| S5-233916 | 24/05/2023 09:44:25 | revised |
| S5-233917 | 23/05/2023 06:43:33 | approved |
| S5-233918 | 23/05/2023 06:45:06 | approved |
| S5-233919 | 25/05/2023 16:02:59 | postponed |
| S5-233920 | 24/05/2023 11:37:27 | agreed |
| S5-233921 | 26/05/2023 08:23:12 | not pursued |
| S5-233922 | 25/05/2023 12:27:20 | revised |
| S5-233923 | 25/05/2023 16:04:02 | agreed |
| S5-233924 | 25/05/2023 16:03:06 | postponed |
| S5-233925 | 23/05/2023 12:47:14 | revised |
| S5-233926 | 23/05/2023 13:09:25 | revised |
| S5-233927 | 23/05/2023 13:01:39 | revised |
| S5-233928 | 24/05/2023 09:50:00 | revised |
| S5-233929 | 24/05/2023 17:23:05 | revised |
| S5-233932 | 24/05/2023 16:57:01 | revised |
| S5-233933 | 25/05/2023 16:10:12 | agreed |
| S5-233934 | 25/05/2023 16:04:14 | agreed |
| S5-233935 | 25/05/2023 16:03:11 | postponed |
| S5-233936 | 25/05/2023 16:06:48 | revised |
| S5-233937 | 26/05/2023 10:20:54 | not pursued |
| S5-233938 | 24/05/2023 10:00:32 | merged |
| S5-233939 | 26/05/2023 10:12:32 | not pursued |
| S5-233939 | 26/05/2023 10:15:35 | merged |
| S5-233940 | 24/05/2023 06:54:15 | merged |
| S5-233941 | 25/05/2023 16:23:44 | revised |
| S5-233942 | 26/05/2023 10:25:54 | not pursued |
| S5-233943 | 22/05/2023 09:14:32 | revised |
| S5-233944 | 22/05/2023 09:26:09 | agreed |
| S5-233945 | 24/05/2023 17:24:05 | agreed |
| S5-233946 | 24/05/2023 10:29:02 | merged |
| S5-233947 | 25/05/2023 15:21:16 | revised |
| S5-233948 | 26/05/2023 10:26:53 | not pursued |
| S5-233949 | 26/05/2023 10:26:21 | not pursued |
| S5-233950 | 25/05/2023 15:22:30 | revised |
| S5-233951 | 26/05/2023 10:27:06 | not pursued |
| S5-233952 | 26/05/2023 10:34:37 | not pursued |
| S5-233953 | 26/05/2023 10:27:22 | not pursued |
| S5-233954 | 26/05/2023 10:27:56 | not pursued |
| S5-233955 | 22/05/2023 15:53:08 | approved |
| S5-233956 | 26/05/2023 12:30:54 | merged |
| S5-233957 | 26/05/2023 14:34:13 | approved |
| S5-233958 | 25/05/2023 06:46:27 | revised |
| S5-233959 | 25/05/2023 06:53:36 | revised |
| S5-233960 | 25/05/2023 06:56:52 | revised |
| S5-233961 | 25/05/2023 06:58:00 | revised |
| S5-233961 | 25/05/2023 07:00:44 | agreed |
| S5-233962 | 25/05/2023 06:59:28 | agreed |
| S5-233963 | 25/05/2023 15:25:37 | agreed |
| S5-233964 | 25/05/2023 15:25:40 | agreed |
| S5-233965 | 25/05/2023 15:33:02 | revised |
| S5-233966 | 25/05/2023 15:33:22 | revised |
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| S5-233968 | 25/05/2023 06:59:43 | revised |
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| S5-233970 | 23/05/2023 07:03:22 | revised |
| S5-233971 | 24/05/2023 14:37:34 | revised |
| S5-233972 | 24/05/2023 14:38:25 | revised |
| S5-233973 | 24/05/2023 11:43:42 | agreed |
| S5-233974 | 24/05/2023 11:43:45 | agreed |
| S5-233975 | 24/05/2023 11:43:50 | agreed |
| S5-233976 | 24/05/2023 11:43:59 | agreed |
| S5-233977 | 24/05/2023 11:44:02 | agreed |
| S5-233978 | 25/05/2023 15:38:58 | agreed |
| S5-233979 | 25/05/2023 15:39:00 | agreed |
| S5-233980 | 25/05/2023 15:39:01 | agreed |
| S5-233981 | 25/05/2023 16:20:47 | agreed |
| S5-233982 | 25/05/2023 16:20:49 | agreed |
| S5-233983 | 25/05/2023 16:31:04 | revised |
| S5-233984 | 25/05/2023 16:31:19 | revised |
| S5-233985 | 24/05/2023 11:44:48 | agreed |
| S5-233987 | 24/05/2023 12:39:02 | revised |
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| S5-233989 | 23/05/2023 09:36:12 | revised |
| S5-233990 | 23/05/2023 09:59:19 | merged |
| S5-233991 | 23/05/2023 10:10:41 | revised |
| S5-233992 | 25/05/2023 12:51:05 | revised |
| S5-233993 | 25/05/2023 12:55:20 | agreed |
| S5-233994 | 25/05/2023 12:57:52 | revised |
| S5-233995 | 25/05/2023 13:00:00 | available |
| S5-233995 | 25/05/2023 13:00:47 | revised |
| S5-233996 | 25/05/2023 14:44:59 | revised |
| S5-233997 | 25/05/2023 14:46:14 | revised |
| S5-233998 | 25/05/2023 15:39:39 | agreed |
| S5-233999 | 25/05/2023 15:39:41 | agreed |
| S5-234000 | 24/05/2023 11:38:11 | agreed |
| S5-234001 | 24/05/2023 11:38:12 | agreed |
| S5-234002 | 26/05/2023 09:34:14 | agreed |
| S5-234002 | 26/05/2023 09:35:54 | not pursued |
| S5-234003 | 26/05/2023 09:34:18 | agreed |
| S5-234003 | 26/05/2023 09:36:00 | not pursued |
| S5-234004 | 25/05/2023 08:28:15 | revised |
| S5-234005 | 26/05/2023 04:25:09 | noted |
| S5-234006 | 24/05/2023 09:39:08 | revised |
| S5-234007 | 24/05/2023 09:39:34 | revised |
| S5-234008 | 25/05/2023 10:16:51 | revised |
| S5-234010 | 29/05/2023 09:17:21 | approved |
| S5-234011 | 25/05/2023 08:28:38 | revised |
| S5-234012 | 25/05/2023 09:05:05 | agreed |
| S5-234013 | 25/05/2023 09:05:10 | agreed |
| S5-234014 | 25/05/2023 09:11:00 | revised |
| S5-234015 | 25/05/2023 09:11:18 | revised |
| S5-234016 | 25/05/2023 14:47:22 | revised |
| S5-234017 | 25/05/2023 14:50:09 | revised |
| S5-234018 | 25/05/2023 09:14:46 | revised |
| S5-234019 | 25/05/2023 14:50:27 | revised |
| S5-234020 | 25/05/2023 14:50:39 | revised |
| S5-234021 | 25/05/2023 09:15:00 | revised |
| S5-234022 | 25/05/2023 09:16:32 | agreed |
| S5-234023 | 25/05/2023 09:16:34 | agreed |
| S5-234024 | 26/05/2023 12:55:41 | not pursued |
| S5-234025 | 25/05/2023 09:23:19 | agreed |
| S5-234026 | 25/05/2023 09:23:20 | agreed |
| S5-234027 | 25/05/2023 09:23:35 | agreed |
| S5-234028 | 25/05/2023 09:23:27 | agreed |
| S5-234029 | 25/05/2023 13:03:34 | revised |
| S5-234030 | 25/05/2023 09:33:00 | revised |
| S5-234031 | 25/05/2023 09:34:01 | revised |
| S5-234032 | 25/05/2023 09:34:16 | revised |
| S5-234033 | 25/05/2023 09:43:46 | revised |
| S5-234034 | 25/05/2023 09:43:52 | revised |
| S5-234035 | 25/05/2023 09:45:02 | revised |
| S5-234036 | 25/05/2023 09:45:40 | revised |
| S5-234037 | 26/05/2023 10:33:04 | agreed |
| S5-234037 | 26/05/2023 12:57:16 | revised |
| S5-234038 | 25/05/2023 15:15:46 | postponed |
| S5-234039 | 25/05/2023 16:46:24 | agreed |
| S5-234040 | 25/05/2023 16:47:02 | agreed |
| S5-234041 | 25/05/2023 16:47:05 | agreed |
| S5-234042 | 25/05/2023 14:35:43 | merged |
| S5-234043 | 25/05/2023 14:38:51 | merged |
| S5-234044 | 26/05/2023 07:21:38 | revised |
| S5-234045 | 23/05/2023 12:44:19 | revised |
| S5-234046 | 26/05/2023 07:22:38 | revised |
| S5-234047 | 24/05/2023 10:14:49 | revised |
| S5-234048 | 26/05/2023 07:22:56 | revised |
| S5-234049 | 26/05/2023 07:23:14 | revised |
| S5-234050 | 24/05/2023 06:53:39 | revised |
| S5-234051 | 24/05/2023 09:56:40 | revised |
| S5-234052 | 24/05/2023 09:57:27 | merged |
| S5-234052 | 24/05/2023 10:09:40 | postponed |
| S5-234052 | 31/05/2023 09:12:24 | noted |
| S5-234053 | 24/05/2023 07:34:20 | merged |
| S5-234054 | 26/05/2023 07:24:08 | revised |
| S5-234055 | 21/05/2023 08:45:01 | merged |
| S5-234056 | 22/05/2023 16:43:28 | agreed |
| S5-234056 | 26/05/2023 08:01:10 | revised |
| S5-234057 | 17/05/2023 22:10:33 | not treated |
| S5-234058 | 24/05/2023 11:54:06 | noted |
| S5-234059 | 17/05/2023 22:11:41 | not treated |
| S5-234060 | 26/05/2023 10:32:08 | not pursued |
| S5-234061 | 22/05/2023 16:25:34 | revised |
| S5-234062 | 26/05/2023 07:50:53 | noted |
| S5-234062 | 26/05/2023 07:51:15 | endorsed |
| S5-234063 | 22/05/2023 16:20:06 | revised |
| S5-234064 | 22/05/2023 16:38:03 | revised |
| S5-234065 | 22/05/2023 16:39:15 | revised |
| S5-234066 | 26/05/2023 14:44:32 | approved |
| S5-234066 | 26/05/2023 15:07:37 | revised |
| S5-234067 | 17/05/2023 22:12:00 | not treated |
| S5-234068 | 23/05/2023 08:30:42 | revised |
| S5-234069 | 23/05/2023 08:37:52 | revised |
| S5-234070 | 25/05/2023 09:46:57 | agreed |
| S5-234071 | 25/05/2023 09:48:55 | agreed |
| S5-234072 | 25/05/2023 09:49:39 | agreed |
| S5-234073 | 25/05/2023 09:50:17 | agreed |
| S5-234074 | 26/05/2023 13:05:34 | endorsed |
| S5-234074 | 26/05/2023 13:06:09 | noted |
| S5-234075 | 26/05/2023 13:06:14 | not pursued |
| S5-234076 | 25/05/2023 06:48:58 | revised |
| S5-234077 | 22/05/2023 07:51:43 | revised |
| S5-234078 | 23/05/2023 14:26:46 | merged |
| S5-234079 | 23/05/2023 07:24:23 | revised |
| S5-234080 | 23/05/2023 08:20:19 | approved |
| S5-234081 | 23/05/2023 08:20:22 | approved |
| S5-234082 | 23/05/2023 08:21:36 | approved |
| S5-234083 | 23/05/2023 08:22:24 | revised |
| S5-234084 | 21/05/2023 08:46:06 | merged |
| S5-234085 | 24/05/2023 13:24:53 | revised |
| S5-234085 | 26/05/2023 12:52:21 | not pursued |
| S5-234087 | 24/05/2023 13:29:00 | revised |
| S5-234087 | 26/05/2023 12:51:22 | not pursued |
| S5-234088 | 24/05/2023 16:57:35 | agreed |
| S5-234089 | 24/05/2023 17:04:45 | revised |
| S5-234090 | 25/05/2023 09:10:10 | revised |
| S5-234090 | 25/05/2023 09:10:46 | available |
| S5-234090 | 25/05/2023 09:12:03 | revised |
| S5-234091 | 23/05/2023 10:11:17 | approved |
| S5-234092 | 24/05/2023 09:25:07 | available |
| S5-234092 | 24/05/2023 09:25:28 | revised |
| S5-234093 | 24/05/2023 09:26:16 | revised |
| S5-234094 | 24/05/2023 09:26:42 | revised |
| S5-234095 | 24/05/2023 09:28:05 | revised |
| S5-234096 | 24/05/2023 09:28:26 | revised |
| S5-234097 | 24/05/2023 09:29:24 | revised |
| S5-234098 | 25/05/2023 15:52:23 | not pursued |
| S5-234099 | 25/05/2023 15:52:46 | revised |
| S5-234100 | 25/05/2023 10:27:12 | not pursued |
| S5-234101 | 25/05/2023 10:28:16 | revised |
| S5-234102 | 25/05/2023 10:31:34 | agreed |
| S5-234103 | 25/05/2023 16:48:02 | revised |
| S5-234104 | 25/05/2023 16:48:45 | agreed |
| S5-234105 | 25/05/2023 16:58:31 | revised |
| S5-234106 | 25/05/2023 15:08:04 | agreed |
| S5-234107 | 26/05/2023 09:29:51 | agreed |
| S5-234107 | 26/05/2023 09:31:39 | not pursued |
| S5-234108 | 25/05/2023 16:59:14 | revised |
| S5-234109 | 26/05/2023 09:29:43 | agreed |
| S5-234110 | 26/05/2023 09:31:44 | not pursued |
| S5-234111 | 24/05/2023 17:25:28 | revised |
| S5-234112 | 24/05/2023 17:25:42 | revised |
| S5-234113 | 25/05/2023 14:01:39 | revised |
| S5-234114 | 26/05/2023 09:38:43 | agreed |
| S5-234114 | 26/05/2023 09:42:51 | not pursued |
| S5-234115 | 24/05/2023 14:12:40 | revised |
| S5-234116 | 26/05/2023 12:30:22 | available |
| S5-234117 | 26/05/2023 12:40:32 | merged |
| S5-234118 | 24/05/2023 10:29:36 | revised |
| S5-234119 | 24/05/2023 13:07:32 | revised |
| S5-234119 | 26/05/2023 12:47:15 | not pursued |
| S5-234120 | 24/05/2023 15:29:21 | agreed |
| S5-234120 | 24/05/2023 15:30:13 | revised |
| S5-234121 | 24/05/2023 15:29:22 | agreed |
| S5-234121 | 24/05/2023 15:31:42 | revised |
| S5-234122 | 22/05/2023 14:48:34 | revised |
| S5-234123 | 23/05/2023 09:58:21 | revised |
| S5-234124 | 23/05/2023 09:44:39 | revised |
| S5-234125 | 23/05/2023 10:15:08 | revised |
| S5-234126 | 23/05/2023 10:16:17 | revised |
| S5-234127 | 26/05/2023 14:47:50 | approved |
| S5-234128 | 24/05/2023 16:56:09 | agreed |
| S5-234129 | 23/05/2023 07:40:25 | revised |
| S5-234130 | 24/05/2023 06:55:07 | merged |
| S5-234131 | 24/05/2023 06:36:37 | merged |
| S5-234132 | 23/05/2023 15:36:12 | merged |
| S5-234134 | 22/05/2023 16:01:23 | revised |
| S5-234137 | 23/05/2023 12:23:36 | revised |
| S5-234138 | 24/05/2023 16:55:36 | agreed |
| S5-234139 | 25/05/2023 06:43:19 | agreed |
| S5-234140 | 24/05/2023 14:43:43 | revised |
| S5-234140 | 24/05/2023 14:44:12 | not pursued |
| S5-234141 | 26/05/2023 13:09:13 | not pursued |
| S5-234142 | 24/05/2023 15:03:56 | revised |
| S5-234143 | 24/05/2023 15:15:30 | revised |
| S5-234144 | 24/05/2023 14:45:33 | agreed |
| S5-234145 | 24/05/2023 14:49:52 | revised |
| S5-234146 | 24/05/2023 15:17:12 | revised |
| S5-234147 | 24/05/2023 15:21:13 | revised |
| S5-234148 | 24/05/2023 15:22:18 | revised |
| S5-234149 | 24/05/2023 15:25:23 | revised |
| S5-234150 | 25/05/2023 14:59:27 | not pursued |
| S5-234150 | 25/05/2023 14:59:42 | postponed |
| S5-234151 | 25/05/2023 14:59:56 | postponed |
| S5-234152 | 25/05/2023 14:26:22 | postponed |
| S5-234153 | 22/05/2023 14:40:15 | revised |
| S5-234153 | 26/05/2023 13:31:06 | not pursued |
| S5-234155 | 22/05/2023 14:44:59 | available |
| S5-234155 | 22/05/2023 14:45:21 | revised |
| S5-234156 | 25/05/2023 13:23:22 | revised |
| S5-234157 | 26/05/2023 12:58:31 | agreed |
| S5-234158 | 24/05/2023 16:39:10 | revised |
| S5-234159 | 24/05/2023 16:46:40 | revised |
| S5-234159 | 26/05/2023 12:59:49 | not pursued |
| S5-234160 | 25/05/2023 06:49:10 | revised |
| S5-234161 | 22/05/2023 14:18:14 | revised |
| S5-234162 | 22/05/2023 14:46:05 | approved |
| S5-234163 | 24/05/2023 13:12:28 | revised |
| S5-234164 | 22/05/2023 14:46:44 | approved |
| S5-234166 | 23/05/2023 09:14:04 | revised |
| S5-234167 | 25/05/2023 10:40:38 | revised |
| S5-234168 | 23/05/2023 09:21:43 | revised |
| S5-234169 | 21/05/2023 08:44:47 | merged |
| S5-234170 | 25/05/2023 07:12:45 | revised |
| S5-234171 | 25/05/2023 07:07:18 | agreed |
| S5-234174 | 21/05/2023 08:43:04 | merged |
| S5-234175 | 22/05/2023 10:40:47 | revised |
| S5-234176 | 26/05/2023 13:17:33 | not pursued |
| S5-234177 | 25/05/2023 07:44:13 | revised |
| S5-234178 | 22/05/2023 14:50:26 | revised |
| S5-234179 | 24/05/2023 09:40:11 | revised |
| S5-234179 | 26/05/2023 03:17:58 | not pursued |
| S5-234180 | 24/05/2023 09:40:34 | revised |
| S5-234181 | 26/05/2023 04:38:07 | noted |
| S5-234182 | 26/05/2023 04:41:11 | noted |
| S5-234183 | 26/05/2023 04:42:24 | noted |
| S5-234184 | 26/05/2023 04:38:49 | merged |
| S5-234185 | 24/05/2023 09:46:52 | revised |
| S5-234186 | 25/05/2023 09:52:48 | revised |
| S5-234187 | 25/05/2023 09:53:49 | revised |
| S5-234188 | 24/05/2023 09:47:32 | revised |
| S5-234189 | 25/05/2023 09:52:17 | revised |
| S5-234190 | 26/05/2023 05:08:37 | merged |
| S5-234191 | 26/05/2023 05:03:25 | merged |
| S5-234192 | 26/05/2023 05:06:50 | merged |
| S5-234193 | 25/05/2023 10:11:48 | revised |
| S5-234194 | 25/05/2023 10:16:22 | revised |
| S5-234195 | 25/05/2023 10:57:25 | revised |
| S5-234196 | 26/05/2023 03:27:14 | revised |
| S5-234197 | 26/05/2023 03:28:01 | revised |
| S5-234198 | 29/05/2023 09:23:27 | approved |
| S5-234199 | 29/05/2023 09:23:53 | not pursued |
| S5-234200 | 26/05/2023 03:28:44 | revised |
| S5-234201 | 26/05/2023 03:29:45 | revised |
| S5-234202 | 26/05/2023 03:30:18 | revised |
| S5-234203 | 26/05/2023 03:31:11 | revised |
| S5-234204 | 26/05/2023 03:31:41 | revised |
| S5-234205 | 26/05/2023 03:32:35 | revised |
| S5-234206 | 26/05/2023 03:33:14 | revised |
| S5-234207 | 26/05/2023 03:34:13 | revised |
| S5-234208 | 26/05/2023 03:37:49 | revised |
| S5-234209 | 29/05/2023 10:34:04 | agreed |
| S5-234210 | 25/05/2023 09:25:18 | revised |
| S5-234211 | 25/05/2023 09:25:51 | revised |
| S5-234213 | 25/05/2023 09:26:36 | revised |
| S5-234214 | 25/05/2023 09:27:39 | revised |
| S5-234215 | 25/05/2023 09:28:00 | revised |
| S5-234216 | 25/05/2023 09:28:15 | revised |
| S5-234217 | 29/05/2023 10:38:53 | noted |
| S5-234220 | 25/05/2023 09:42:15 | revised |
| S5-234221 | 25/05/2023 09:46:30 | revised |
| S5-234222 | 26/05/2023 04:26:19 | noted |
| S5-234223 | 26/05/2023 04:29:37 | merged |
| S5-234224 | 24/05/2023 08:22:07 | revised |
| S5-234225 | 22/05/2023 09:31:54 | agreed |
| S5-234225 | 22/05/2023 09:33:52 | revised |
| S5-234226 | 21/05/2023 08:46:19 | merged |
| S5-234227 | 23/05/2023 09:47:07 | revised |
| S5-234228 | 25/05/2023 13:08:38 | merged |
| S5-234229 | 23/05/2023 09:49:55 | revised |
| S5-234230 | 25/05/2023 12:50:43 | merged |
| S5-234231 | 23/05/2023 10:21:35 | revised |
| S5-234232 | 25/05/2023 16:49:34 | revised |
| S5-234233 | 24/05/2023 15:26:57 | revised |
| S5-234234 | 25/05/2023 16:50:40 | revised |
| S5-234235 | 25/05/2023 13:18:50 | revised |
| S5-234235 | 26/05/2023 08:26:30 | not pursued |
| S5-234235 | 26/05/2023 12:14:56 | revised |
| S5-234236 | 25/05/2023 16:10:46 | postponed |
| S5-234237 | 22/05/2023 15:30:00 | revised |
| S5-234238 | 24/05/2023 15:33:20 | revised |
| S5-234239 | 24/05/2023 15:36:10 | revised |
| S5-234240 | 22/05/2023 13:36:48 | revised |
| S5-234241 | 24/05/2023 17:28:20 | revised |
| S5-234241 | 24/05/2023 17:42:16 | merged |
| S5-234242 | 22/05/2023 13:03:26 | revised |
| S5-234243 | 22/05/2023 12:18:09 | revised |
| S5-234243 | 26/05/2023 14:03:02 | available |
| S5-234243 | 26/05/2023 14:49:06 | revised |
| S5-234244 | 22/05/2023 13:46:02 | revised |
| S5-234245 | 22/05/2023 15:07:47 | revised |
| S5-234246 | 22/05/2023 15:38:37 | revised |
| S5-234247 | 22/05/2023 15:43:17 | revised |
| S5-234248 | 24/05/2023 15:37:09 | agreed |
| S5-234249 | 24/05/2023 12:34:21 | revised |
| S5-234250 | 26/05/2023 14:19:28 | approved |
| S5-234251 | 24/05/2023 15:38:00 | revised |
| S5-234252 | 26/05/2023 07:53:25 | approved |
| S5-234253 | 26/05/2023 13:17:46 | not pursued |
| S5-234254 | 26/05/2023 13:18:06 | not pursued |
| S5-234255 | 25/05/2023 07:32:33 | revised |
| S5-234256 | 24/05/2023 15:39:25 | revised |
| S5-234257 | 22/05/2023 08:10:40 | revised |
| S5-234258 | 22/05/2023 12:40:46 | revised |
| S5-234259 | 22/05/2023 13:20:19 | revised |
| S5-234260 | 24/05/2023 15:40:07 | revised |
| S5-234261 | 23/05/2023 14:11:31 | not pursued |
| S5-234262 | 22/05/2023 12:54:26 | revised |
| S5-234263 | 22/05/2023 09:30:13 | revised |
| S5-234264 | 22/05/2023 13:23:42 | revised |
| S5-234265 | 22/05/2023 13:32:28 | revised |
| S5-234266 | 22/05/2023 13:34:04 | revised |
| S5-234267 | 22/05/2023 13:34:11 | revised |
| S5-234268 | 22/05/2023 13:34:20 | revised |
| S5-234269 | 22/05/2023 13:34:26 | revised |
| S5-234270 | 25/05/2023 09:53:11 | agreed |
| S5-234271 | 22/05/2023 13:34:35 | revised |
| S5-234272 | 25/05/2023 09:54:13 | agreed |
| S5-234273 | 22/05/2023 13:34:44 | revised |
| S5-234274 | 22/05/2023 13:35:43 | approved |
| S5-234275 | 21/05/2023 08:46:42 | merged |
| S5-234276 | 25/05/2023 09:57:57 | revised |
| S5-234276 | 25/05/2023 17:06:07 | available |
| S5-234276 | 26/05/2023 08:21:08 | agreed |
| S5-234277 | 22/05/2023 13:07:45 | approved |
| S5-234278 | 22/05/2023 13:09:35 | merged |
| S5-234279 | 25/05/2023 09:58:29 | revised |
| S5-234279 | 25/05/2023 17:06:56 | available |
| S5-234279 | 26/05/2023 08:21:23 | agreed |
| S5-234280 | 26/05/2023 14:13:25 | approved |
| S5-234281 | 22/05/2023 17:18:44 | merged |
| S5-234282 | 25/05/2023 09:58:48 | revised |
| S5-234282 | 25/05/2023 17:07:32 | available |
| S5-234282 | 26/05/2023 08:22:14 | agreed |
| S5-234283 | 24/05/2023 14:53:13 | revised |
| S5-234284 | 24/05/2023 14:54:37 | revised |
| S5-234285 | 24/05/2023 15:01:59 | revised |
| S5-234286 | 25/05/2023 09:26:12 | revised |
| S5-234287 | 29/05/2023 10:39:31 | not pursued |
| S5-234288 | 29/05/2023 10:40:15 | not pursued |
| S5-234289 | 23/05/2023 07:48:19 | revised |
| S5-234290 | 24/05/2023 16:52:07 | revised |
| S5-234291 | 24/05/2023 17:44:20 | noted |
| S5-234292 | 22/05/2023 10:49:56 | revised |
| S5-234293 | 22/05/2023 10:55:40 | revised |
| S5-234294 | 22/05/2023 10:58:01 | revised |
| S5-234295 | 22/05/2023 17:36:58 | revised |
| S5-234296 | 22/05/2023 17:18:21 | revised |
| S5-234297 | 23/05/2023 09:23:00 | approved |
| S5-234298 | 23/05/2023 09:25:15 | approved |
| S5-234299 | 23/05/2023 09:25:16 | approved |
| S5-234300 | 23/05/2023 09:32:19 | revised |
| S5-234301 | 26/05/2023 14:38:24 | revised |
| S5-234302 | 26/05/2023 09:34:35 | agreed |
| S5-234303 | 25/05/2023 10:02:02 | revised |
| S5-234304 | 25/05/2023 15:58:11 | agreed |
| S5-234305 | 25/05/2023 15:58:12 | agreed |
| S5-234306 | 25/05/2023 15:58:16 | agreed |
| S5-234307 | 25/05/2023 15:58:19 | agreed |
| S5-234308 | 24/05/2023 08:20:07 | revised |
| S5-234309 | 25/05/2023 09:29:14 | revised |
| S5-234310 | 25/05/2023 09:29:32 | revised |
| S5-234311 | 29/05/2023 10:42:08 | not pursued |
| S5-234312 | 25/05/2023 09:30:09 | revised |
| S5-234313 | 25/05/2023 09:30:26 | revised |
| S5-234314 | 29/05/2023 10:42:50 | not pursued |
| S5-234315 | 25/05/2023 09:31:01 | revised |
| S5-234316 | 25/05/2023 09:31:34 | revised |
| S5-234317 | 25/05/2023 09:36:18 | revised |
| S5-234318 | 29/05/2023 10:44:27 | not pursued |
| S5-234319 | 25/05/2023 09:38:50 | revised |
| S5-234320 | 25/05/2023 09:41:33 | revised |
| S5-234321 | 26/05/2023 04:18:52 | merged |
| S5-234322 | 26/05/2023 04:12:36 | merged |
| S5-234323 | 24/05/2023 09:41:32 | revised |
| S5-234323 | 26/05/2023 03:19:05 | not pursued |
| S5-234324 | 24/05/2023 09:42:34 | revised |
| S5-234325 | 24/05/2023 09:43:04 | revised |
| S5-234326 | 24/05/2023 09:43:24 | revised |
| S5-234327 | 24/05/2023 09:45:15 | revised |
| S5-234328 | 24/05/2023 09:45:45 | revised |
| S5-234328 | 26/05/2023 03:20:24 | not pursued |
| S5-234329 | 25/05/2023 09:55:18 | revised |
| S5-234330 | 25/05/2023 09:55:36 | revised |
| S5-234331 | 25/05/2023 09:56:10 | revised |
| S5-234332 | 26/05/2023 05:05:09 | approved |
| S5-234333 | 25/05/2023 10:01:15 | revised |
| S5-234334 | 25/05/2023 10:04:17 | revised |
| S5-234335 | 25/05/2023 10:14:26 | revised |
| S5-234336 | 25/05/2023 10:05:39 | revised |
| S5-234337 | 25/05/2023 10:04:54 | revised |
| S5-234338 | 24/05/2023 15:55:45 | postponed |
| S5-234340 | 22/05/2023 15:45:42 | revised |
| S5-234341 | 22/05/2023 15:49:40 | revised |
| S5-234342 | 26/05/2023 07:19:15 | noted |
| S5-234342 | 26/05/2023 09:09:39 | merged |
| S5-234343 | 26/05/2023 10:31:23 | not pursued |
| S5-234344 | 29/05/2023 09:48:21 | approved |
| S5-234345 | 25/05/2023 09:13:06 | revised |
| S5-234346 | 25/05/2023 09:14:08 | revised |
| S5-234347 | 25/05/2023 09:15:42 | revised |
| S5-234348 | 25/05/2023 10:02:20 | revised |
| S5-234349 | 26/05/2023 10:32:13 | not pursued |
| S5-234350 | 26/05/2023 10:31:41 | approved |
| S5-234351 | 25/05/2023 13:27:54 | revised |
| S5-234352 | 23/05/2023 12:32:58 | revised |
| S5-234353 | 25/05/2023 12:10:27 | agreed |
| S5-234354 | 26/05/2023 10:32:22 | not pursued |
| S5-234355 | 25/05/2023 12:15:04 | revised |
| S5-234356 | 26/05/2023 10:32:29 | not pursued |
| S5-234357 | 26/05/2023 10:05:56 | merged |
| S5-234358 | 24/05/2023 09:01:06 | postponed |
| S5-234358 | 31/05/2023 09:12:20 | noted |
| S5-234359 | 22/05/2023 15:48:33 | merged |
| S5-234360 | 26/05/2023 10:32:39 | not pursued |
| S5-234361 | 22/05/2023 09:45:56 | revised |
| S5-234362 | 26/05/2023 10:32:50 | not pursued |
| S5-234363 | 24/05/2023 09:05:28 | merged |
| S5-234364 | 22/05/2023 16:34:56 | revised |
| S5-234365 | 22/05/2023 08:16:35 | revised |
| S5-234365 | 26/05/2023 07:31:40 | endorsed |
| S5-234366 | 26/05/2023 10:32:57 | not pursued |
| S5-234367 | 26/05/2023 09:33:37 | not pursued |
| S5-234368 | 21/05/2023 08:45:21 | merged |
| S5-234369 | 26/05/2023 09:33:44 | not pursued |
| S5-234370 | 25/05/2023 10:13:56 | not pursued |
| S5-234371 | 23/05/2023 07:01:21 | postponed |
| S5-234371 | 31/05/2023 09:12:28 | noted |
| S5-234372 | 22/05/2023 16:45:59 | approved |
| S5-234373 | 22/05/2023 16:57:20 | revised |
| S5-234374 | 22/05/2023 17:06:17 | revised |
| S5-234375 | 25/05/2023 10:14:44 | revised |
| S5-234376 | 22/05/2023 17:11:14 | revised |
| S5-234377 | 22/05/2023 15:30:12 | revised |
| S5-234378 | 26/05/2023 14:29:09 | revised |
| S5-234379 | 25/05/2023 16:22:47 | revised |
| S5-234380 | 23/05/2023 06:37:34 | revised |
| S5-234381 | 24/05/2023 17:40:40 | revised |
| S5-234382 | 23/05/2023 06:42:09 | revised |
| S5-234383 | 21/05/2023 08:46:30 | merged |
| S5-234384 | 23/05/2023 06:40:27 | approved |
| S5-234385 | 26/05/2023 14:26:37 | approved |
| S5-234385 | 26/05/2023 14:30:33 | revised |
| S5-234386 | 22/05/2023 17:12:18 | noted |
| S5-234387 | 23/05/2023 06:41:16 | noted |
| S5-234388 | 22/05/2023 17:14:00 | revised |
| S5-234389 | 23/05/2023 14:59:15 | revised |
| S5-234390 | 21/05/2023 08:46:52 | merged |
| S5-234391 | 26/05/2023 13:17:06 | not pursued |
| S5-234392 | 23/05/2023 08:01:24 | revised |
| S5-234393 | 24/05/2023 08:23:25 | revised |
| S5-234394 | 24/05/2023 08:24:56 | revised |
| S5-234395 | 24/05/2023 08:25:34 | revised |
| S5-234396 | 24/05/2023 09:21:57 | revised |
| S5-234397 | 24/05/2023 09:23:32 | revised |
| S5-234398 | 24/05/2023 09:24:07 | revised |
| S5-234399 | 24/05/2023 08:20:53 | revised |
| S5-234400 | 23/05/2023 07:11:29 | revised |
| S5-234401 | 23/05/2023 07:21:12 | revised |
| S5-234402 | 24/05/2023 09:24:38 | revised |
| S5-234403 | 26/05/2023 04:11:27 | noted |
| S5-234404 | 24/05/2023 09:30:12 | revised |
| S5-234405 | 24/05/2023 09:34:04 | revised |
| S5-234406 | 24/05/2023 09:34:25 | revised |
| S5-234407 | 26/05/2023 04:17:49 | approved |
| S5-234408 | 24/05/2023 09:35:10 | revised |
| S5-234409 | 21/05/2023 08:47:08 | merged |
| S5-234410 | 21/05/2023 08:47:20 | merged |
| S5-234411 | 24/05/2023 09:36:24 | revised |
| S5-234412 | 24/05/2023 09:37:05 | revised |
| S5-234413 | 22/05/2023 10:26:39 | noted |
| S5-234414 | 23/05/2023 08:09:21 | revised |
| S5-234415 | 23/05/2023 08:13:07 | revised |
| S5-234416 | 24/05/2023 16:58:55 | not pursued |
| S5-234417 | 24/05/2023 16:59:13 | revised |
| S5-234418 | 25/05/2023 16:52:38 | revised |
| S5-234419 | 24/05/2023 11:47:14 | agreed |
| S5-234420 | 24/05/2023 11:47:30 | agreed |
| S5-234421 | 23/05/2023 08:17:26 | merged |
| S5-234422 | 24/05/2023 11:47:33 | agreed |
| S5-234423 | 25/05/2023 16:56:21 | revised |
| S5-234424 | 25/05/2023 12:16:50 | revised |
| S5-234425 | 24/05/2023 17:09:20 | revised |
| S5-234426 | 24/05/2023 17:10:40 | revised |
| S5-234427 | 24/05/2023 17:10:56 | revised |
| S5-234428 | 24/05/2023 17:15:18 | revised |
| S5-234429 | 26/05/2023 13:04:32 | not pursued |
| S5-234430 | 24/05/2023 17:17:21 | revised |
| S5-234431 | 21/05/2023 08:45:36 | merged |
| S5-234432 | 24/05/2023 17:17:39 | revised |
| S5-234433 | 24/05/2023 17:18:09 | revised |
| S5-234434 | 24/05/2023 09:35:29 | revised |
| S5-234435 | 25/05/2023 09:16:10 | revised |
| S5-234436 | 24/05/2023 11:54:19 | noted |
| S5-234437 | 22/05/2023 08:23:05 | noted |
| S5-234438 | 24/05/2023 11:51:05 | noted |
| S5-234439 | 22/05/2023 07:25:27 | noted |
| S5-234440 | 22/05/2023 07:30:12 | noted |
| S5-234441 | 23/05/2023 15:19:04 | replied to |
| S5-234442 | 24/05/2023 15:55:49 | noted |
| S5-234443 | 30/05/2023 10:38:51 | noted |
| S5-234444 | 26/05/2023 04:19:46 | reserved |
| S5-234445 | 26/05/2023 04:20:59 | reserved |
| S5-234446 | 26/05/2023 04:35:19 | reserved |
| S5-234447 | 26/05/2023 05:09:41 | reserved |
| S5-234451 | 29/05/2023 09:22:49 | approved |
| S5-234452 | 26/05/2023 03:59:43 | approved |
| S5-234453 | 26/05/2023 04:00:46 | approved |
| S5-234454 | 26/05/2023 04:04:15 | noted |
| S5-234455 | 26/05/2023 04:08:43 | agreed |
| S5-234456 | 26/05/2023 04:08:55 | agreed |
| S5-234457 | 26/05/2023 04:10:01 | agreed |
| S5-234458 | 26/05/2023 04:10:11 | agreed |
| S5-234459 | 26/05/2023 04:10:25 | agreed |
| S5-234459 | 26/05/2023 10:36:59 | revised |
| S5-234460 | 26/05/2023 04:10:36 | agreed |
| S5-234461 | 26/05/2023 04:11:07 | agreed |
| S5-234462 | 26/05/2023 04:21:29 | agreed |
| S5-234463 | 26/05/2023 04:22:18 | agreed |
| S5-234464 | 26/05/2023 04:22:41 | agreed |
| S5-234465 | 26/05/2023 04:23:09 | agreed |
| S5-234466 | 26/05/2023 04:23:17 | agreed |
| S5-234467 | 26/05/2023 04:24:31 | agreed |
| S5-234468 | 26/05/2023 04:11:55 | approved |
| S5-234469 | 26/05/2023 04:15:31 | agreed |
| S5-234469 | 26/05/2023 04:16:08 | approved |
| S5-234470 | 26/05/2023 04:15:52 | agreed |
| S5-234470 | 26/05/2023 04:15:57 | approved |
| S5-234471 | 26/05/2023 04:17:59 | approved |
| S5-234472 | 26/05/2023 04:18:22 | approved |
| S5-234473 | 26/05/2023 04:20:28 | approved |
| S5-234474 | 26/05/2023 04:20:36 | approved |
| S5-234475 | 26/05/2023 04:25:58 | agreed |
| S5-234476 | 26/05/2023 04:30:28 | approved |
| S5-234477 | 26/05/2023 03:17:49 | withdrawn |
| S5-234478 | 26/05/2023 04:32:20 | approved |
| S5-234479 | 26/05/2023 03:18:52 | withdrawn |
| S5-234480 | 26/05/2023 04:33:00 | approved |
| S5-234481 | 26/05/2023 04:33:14 | approved |
| S5-234482 | 26/05/2023 04:34:09 | approved |
| S5-234483 | 26/05/2023 04:34:29 | approved |
| S5-234484 | 26/05/2023 03:19:56 | withdrawn |
| S5-234485 | 26/05/2023 04:40:54 | approved |
| S5-234486 | 26/05/2023 04:42:04 | approved |
| S5-234487 | 29/05/2023 10:33:30 | approved |
| S5-234487 | 29/05/2023 10:33:34 | agreed |
| S5-234488 | 29/05/2023 10:33:53 | agreed |
| S5-234489 | 29/05/2023 09:48:28 | approved |
| S5-234490 | 29/05/2023 09:49:59 | approved |
| S5-234491 | 29/05/2023 09:50:07 | approved |
| S5-234492 | 29/05/2023 09:50:14 | approved |
| S5-234493 | 22/05/2023 17:28:39 | replied to |
| S5-234494 | 26/05/2023 07:15:59 | endorsed |
| S5-234495 | 26/05/2023 07:25:21 | revised |
| S5-234496 | 26/05/2023 07:29:58 | endorsed |
| S5-234497 | 26/05/2023 07:31:01 | withdrawn |
| S5-234498 | 26/05/2023 07:54:09 | agreed |
| S5-234499 | 26/05/2023 07:54:36 | agreed |
| S5-234500 | 26/05/2023 07:54:50 | agreed |
| S5-234501 | 26/05/2023 07:55:06 | agreed |
| S5-234502 | 26/05/2023 13:17:25 | not pursued |
| S5-234503 | 26/05/2023 13:34:47 | not pursued |
| S5-234504 | 26/05/2023 13:35:06 | not pursued |
| S5-234505 | 26/05/2023 13:35:22 | not pursued |
| S5-234506 | 24/05/2023 16:21:40 | postponed |
| S5-234507 | 26/05/2023 13:36:36 | endorsed |
| S5-234508 | 25/05/2023 10:27:56 | withdrawn |
| S5-234509 | 26/05/2023 14:09:52 | approved |
| S5-234510 | 26/05/2023 14:10:02 | approved |
| S5-234511 | 26/05/2023 14:11:21 | approved |
| S5-234512 | 26/05/2023 14:10:12 | approved |
| S5-234513 | 26/05/2023 14:10:18 | approved |
| S5-234514 | 26/05/2023 14:10:24 | approved |
| S5-234515 | 26/05/2023 14:10:29 | approved |
| S5-234516 | 26/05/2023 14:10:33 | approved |
| S5-234517 | 26/05/2023 14:10:38 | approved |
| S5-234518 | 26/05/2023 14:10:42 | approved |
| S5-234519 | 26/05/2023 14:10:47 | approved |
| S5-234520 | 26/05/2023 14:10:52 | approved |
| S5-234521 | 26/05/2023 14:11:05 | approved |
| S5-234522 | 26/05/2023 14:11:15 | not pursued |
| S5-234523 | 26/05/2023 13:25:52 | approved |
| S5-234524 | 26/05/2023 13:30:28 | withdrawn |
| S5-234525 | 26/05/2023 10:43:05 | revised |
| S5-234526 | 26/05/2023 14:00:44 | approved |
| S5-234527 | 26/05/2023 14:16:32 | approved |
| S5-234528 | 26/05/2023 14:16:43 | approved |
| S5-234529 | 26/05/2023 14:21:43 | approved |
| S5-234530 | 26/05/2023 14:22:23 | withdrawn |
| S5-234531 | 26/05/2023 14:20:41 | withdrawn |
| S5-234531 | 26/05/2023 14:22:07 | not pursued |
| S5-234532 | 26/05/2023 14:23:42 | withdrawn |
| S5-234533 | 26/05/2023 14:23:59 | approved |
| S5-234534 | 26/05/2023 14:24:06 | approved |
| S5-234535 | 26/05/2023 14:33:18 | approved |
| S5-234536 | 26/05/2023 14:33:35 | approved |
| S5-234537 | 26/05/2023 07:38:20 | not pursued |
| S5-234537 | 26/05/2023 07:38:24 | withdrawn |
| S5-234538 | 26/05/2023 14:39:06 | approved |
| S5-234539 | 26/05/2023 14:39:22 | approved |
| S5-234540 | 26/05/2023 14:39:28 | approved |
| S5-234541 | 26/05/2023 14:39:33 | approved |
| S5-234542 | 26/05/2023 14:39:40 | approved |
| S5-234543 | 26/05/2023 14:26:50 | approved |
| S5-234544 | 26/05/2023 14:26:54 | approved |
| S5-234545 | 26/05/2023 14:27:00 | approved |
| S5-234546 | 26/05/2023 14:27:12 | approved |
| S5-234547 | 26/05/2023 12:07:49 | approved |
| S5-234548 | 26/05/2023 07:41:54 | not pursued |
| S5-234549 | 26/05/2023 07:46:17 | withdrawn |
| S5-234550 | 26/05/2023 07:48:29 | approved |
| S5-234550 | 26/05/2023 07:49:49 | revised |
| S5-234551 | 26/05/2023 07:37:33 | not pursued |
| S5-234551 | 26/05/2023 09:11:31 | revised |
| S5-234552 | 26/05/2023 13:35:47 | not pursued |
| S5-234553 | 26/05/2023 14:24:20 | approved |
| S5-234554 | 26/05/2023 14:24:47 | approved |
| S5-234555 | 26/05/2023 09:32:14 | agreed |
| S5-234556 | 25/05/2023 17:09:05 | withdrawn |
| S5-234557 | 25/05/2023 17:08:24 | withdrawn |
| S5-234558 | 26/05/2023 14:34:39 | approved |
| S5-234559 | 26/05/2023 14:35:05 | not pursued |
| S5-234560 | 26/05/2023 14:35:11 | approved |
| S5-234561 | 26/05/2023 14:35:14 | approved |
| S5-234562 | 26/05/2023 14:35:18 | approved |
| S5-234563 | 26/05/2023 14:35:20 | approved |
| S5-234564 | 26/05/2023 14:46:13 | approved |
| S5-234565 | 26/05/2023 14:46:19 | approved |
| S5-234566 | 26/05/2023 14:46:23 | approved |
| S5-234567 | 26/05/2023 14:45:32 | not pursued |
| S5-234568 | 26/05/2023 14:45:45 | not pursued |
| S5-234569 | 26/05/2023 14:45:55 | approved |
| S5-234570 | 26/05/2023 14:46:33 | approved |
| S5-234571 | 23/05/2023 09:44:52 | revised |
| S5-234571 | 23/05/2023 09:45:04 | available |
| S5-234571 | 26/05/2023 14:46:37 | approved |
| S5-234572 | 26/05/2023 14:46:42 | approved |
| S5-234573 | 26/05/2023 14:46:44 | approved |
| S5-234574 | 23/05/2023 09:50:06 | approved |
| S5-234575 | 26/05/2023 14:46:51 | approved |
| S5-234576 | 26/05/2023 14:46:55 | approved |
| S5-234577 | 26/05/2023 14:46:58 | approved |
| S5-234578 | 26/05/2023 14:47:02 | approved |
| S5-234579 | 26/05/2023 14:47:14 | approved |
| S5-234580 | 26/05/2023 09:37:01 | agreed |
| S5-234580 | 26/05/2023 14:32:18 | not pursued |
| S5-234581 | 26/05/2023 09:37:07 | agreed |
| S5-234582 | 26/05/2023 12:16:39 | not pursued |
| S5-234583 | 26/05/2023 09:38:18 | agreed |
| S5-234584 | 26/05/2023 09:38:22 | agreed |
| S5-234585 | 26/05/2023 09:38:36 | not pursued |
| S5-234586 | 26/05/2023 13:00:22 | agreed |
| S5-234587 | 26/05/2023 13:00:41 | agreed |
| S5-234588 | 26/05/2023 13:00:57 | agreed |
| S5-234589 | 26/05/2023 13:01:06 | agreed |
| S5-234590 | 26/05/2023 13:01:09 | agreed |
| S5-234591 | 26/05/2023 13:01:13 | agreed |
| S5-234592 | 26/05/2023 13:01:16 | agreed |
| S5-234593 | 26/05/2023 09:53:31 | agreed |
| S5-234594 | 26/05/2023 12:08:30 | approved |
| S5-234595 | 26/05/2023 09:53:45 | agreed |
| S5-234595 | 26/05/2023 09:54:38 | not pursued |
| S5-234596 | 26/05/2023 09:56:59 | revised |
| S5-234597 | 26/05/2023 09:57:42 | agreed |
| S5-234598 | 26/05/2023 09:58:35 | revised |
| S5-234599 | 29/05/2023 10:34:57 | agreed |
| S5-234600 | 29/05/2023 10:35:15 | agreed |
| S5-234601 | 29/05/2023 10:35:54 | agreed |
| S5-234602 | 29/05/2023 10:36:33 | agreed |
| S5-234603 | 29/05/2023 10:36:49 | agreed |
| S5-234604 | 29/05/2023 10:37:12 | agreed |
| S5-234605 | 29/05/2023 10:37:28 | agreed |
| S5-234606 | 29/05/2023 10:40:37 | agreed |
| S5-234607 | 29/05/2023 10:40:51 | agreed |
| S5-234608 | 29/05/2023 10:41:33 | agreed |
| S5-234609 | 29/05/2023 10:41:42 | agreed |
| S5-234610 | 29/05/2023 10:42:24 | agreed |
| S5-234611 | 29/05/2023 10:42:34 | agreed |
| S5-234612 | 29/05/2023 10:43:02 | agreed |
| S5-234613 | 29/05/2023 10:43:56 | agreed |
| S5-234614 | 29/05/2023 10:44:11 | agreed |
| S5-234615 | 29/05/2023 10:45:08 | agreed |
| S5-234616 | 29/05/2023 10:45:27 | agreed |
| S5-234617 | 29/05/2023 11:03:11 | reserved |
| S5-234618 | 29/05/2023 11:03:33 | reserved |
| S5-234619 | 26/05/2023 04:42:53 | approved |
| S5-234620 | 26/05/2023 04:43:22 | approved |
| S5-234621 | 26/05/2023 04:43:27 | approved |
| S5-234622 | 26/05/2023 04:43:49 | approved |
| S5-234623 | 26/05/2023 04:43:53 | approved |
| S5-234624 | 26/05/2023 05:05:05 | approved |
| S5-234625 | 26/05/2023 05:05:16 | approved |
| S5-234626 | 26/05/2023 05:07:17 | approved |
| S5-234627 | 29/05/2023 09:11:53 | approved |
| S5-234628 | 29/05/2023 09:14:18 | approved |
| S5-234629 | 29/05/2023 09:14:32 | approved |
| S5-234630 | 29/05/2023 09:14:47 | approved |
| S5-234631 | 29/05/2023 09:15:04 | approved |
| S5-234632 | 29/05/2023 09:17:10 | approved |
| S5-234633 | 29/05/2023 09:23:03 | approved |
| S5-234634 | 29/05/2023 09:23:22 | approved |
| S5-234635 | 29/05/2023 09:24:11 | approved |
| S5-234636 | 29/05/2023 09:24:50 | approved |
| S5-234637 | 29/05/2023 09:25:07 | approved |
| S5-234638 | 29/05/2023 09:25:21 | approved |
| S5-234639 | 29/05/2023 09:25:31 | approved |
| S5-234640 | 29/05/2023 09:25:43 | approved |
| S5-234641 | 29/05/2023 09:26:36 | approved |
| S5-234642 | 29/05/2023 09:26:56 | approved |
| S5-234643 | 29/05/2023 09:27:05 | approved |
| S5-234644 | 08/06/2023 08:24:49 | approved |
| S5-234649 | 26/05/2023 09:59:45 | agreed |
| S5-234650 | 26/05/2023 12:26:36 | revised |
| S5-234651 | 26/05/2023 07:43:33 | withdrawn |
| S5-234651 | 26/05/2023 07:45:44 | reserved |
| S5-234651 | 26/05/2023 12:06:53 | approved |
| S5-234652 | 26/05/2023 10:00:14 | not pursued |
| S5-234653 | 26/05/2023 10:00:20 | agreed |
| S5-234654 | 26/05/2023 10:10:54 | revised |
| S5-234655 | 26/05/2023 12:21:36 | not pursued |
| S5-234656 | 26/05/2023 10:11:50 | endorsed |
| S5-234657 | 26/05/2023 10:12:03 | agreed |
| S5-234658 | 26/05/2023 10:12:12 | approved |
| S5-234659 | 26/05/2023 12:28:01 | approved |
| S5-234660 | 26/05/2023 12:28:25 | agreed |
| S5-234661 | 26/05/2023 12:28:34 | agreed |
| S5-234662 | 26/05/2023 12:41:42 | revised |
| S5-234663 | 24/05/2023 16:23:48 | replied to |
| S5-234664 | 26/05/2023 12:45:43 | agreed |
| S5-234665 | 26/05/2023 10:43:39 | revised |
| S5-234666 | 26/05/2023 12:31:46 | revised |
| S5-234667 | 26/05/2023 12:46:21 | agreed |
| S5-234668 | 26/05/2023 12:46:38 | not pursued |
| S5-234669 | 26/05/2023 12:47:06 | withdrawn |
| S5-234670 | 26/05/2023 12:48:32 | not pursued |
| S5-234671 | 26/05/2023 12:48:44 | not pursued |
| S5-234672 | 25/05/2023 17:16:43 | withdrawn |
| S5-234673 | 25/05/2023 17:15:58 | withdrawn |
| S5-234674 | 26/05/2023 12:52:42 | agreed |
| S5-234675 | 26/05/2023 12:52:53 | agreed |
| S5-234676 | 26/05/2023 09:32:24 | agreed |
| S5-234677 | 26/05/2023 09:32:35 | agreed |
| S5-234678 | 26/05/2023 13:09:46 | postponed |
| S5-234678 | 31/05/2023 09:12:25 | noted |
| S5-234679 | 26/05/2023 13:10:08 | agreed |
| S5-234680 | 26/05/2023 13:10:12 | agreed |
| S5-234681 | 26/05/2023 13:10:20 | agreed |
| S5-234682 | 26/05/2023 13:10:22 | agreed |
| S5-234683 | 26/05/2023 13:10:27 | agreed |
| S5-234684 | 26/05/2023 13:10:32 | agreed |
| S5-234685 | 24/05/2023 15:17:51 | agreed |
| S5-234686 | 26/05/2023 13:10:38 | agreed |
| S5-234687 | 26/05/2023 13:10:43 | agreed |
| S5-234688 | 26/05/2023 13:10:47 | agreed |
| S5-234689 | 26/05/2023 13:11:04 | agreed |
| S5-234689 | 26/05/2023 13:11:25 | not pursued |
| S5-234690 | 26/05/2023 13:11:37 | agreed |
| S5-234691 | 26/05/2023 13:11:42 | agreed |
| S5-234692 | 26/05/2023 13:11:47 | agreed |
| S5-234693 | 26/05/2023 13:11:50 | agreed |
| S5-234694 | 26/05/2023 13:11:55 | agreed |
| S5-234695 | 26/05/2023 13:11:59 | agreed |
| S5-234696 | 26/05/2023 13:12:03 | agreed |
| S5-234697 | 24/05/2023 16:25:37 | reserved |
| S5-234697 | 05/06/2023 12:32:56 | approved |
| S5-234698 | 26/05/2023 06:20:05 | revised |
| S5-234699 | 26/05/2023 12:59:40 | withdrawn |
| S5-234700 | 26/05/2023 13:00:13 | not pursued |
| S5-234701 | 26/05/2023 13:02:33 | agreed |
| S5-234702 | 26/05/2023 13:03:29 | agreed |
| S5-234703 | 26/05/2023 13:03:36 | agreed |
| S5-234704 | 26/05/2023 13:03:47 | not pursued |
| S5-234705 | 26/05/2023 13:03:58 | not pursued |
| S5-234706 | 26/05/2023 13:04:15 | not pursued |
| S5-234707 | 26/05/2023 13:04:25 | not pursued |
| S5-234708 | 26/05/2023 13:04:41 | not pursued |
| S5-234709 | 26/05/2023 13:04:51 | not pursued |
| S5-234710 | 26/05/2023 13:05:00 | not pursued |
| S5-234711 | 26/05/2023 13:05:13 | not pursued |
| S5-234712 | 26/05/2023 09:45:21 | not pursued |
| S5-234712 | 26/05/2023 09:45:50 | available |
| S5-234712 | 26/05/2023 12:18:03 | not pursued |
| S5-234713 | 26/05/2023 09:47:36 | agreed |
| S5-234714 | 24/05/2023 17:42:42 | withdrawn |
| S5-234715 | 26/05/2023 12:54:47 | revised |
| S5-234716 | 26/05/2023 13:12:21 | approved |
| S5-234720 | 30/05/2023 09:39:49 | withdrawn |
| S5-234728 | 01/06/2023 12:07:24 | withdrawn |
| S5-234731 | 01/06/2023 12:07:40 | withdrawn |
| S5-234732 | 01/06/2023 12:07:49 | withdrawn |
| S5-234735 | 26/05/2023 13:06:34 | agreed |
| S5-234736 | 26/05/2023 13:26:26 | approved |
| S5-234737 | 26/05/2023 13:26:38 | not pursued |
| S5-234738 | 26/05/2023 13:06:38 | agreed |
| S5-234739 | 26/05/2023 13:06:42 | agreed |
| S5-234740 | 25/05/2023 07:00:59 | withdrawn |
| S5-234741 | 26/05/2023 13:07:07 | withdrawn |
| S5-234742 | 26/05/2023 13:07:44 | agreed |
| S5-234743 | 26/05/2023 13:16:25 | agreed |
| S5-234744 | 26/05/2023 13:18:53 | not pursued |
| S5-234745 | 26/05/2023 13:24:14 | not pursued |
| S5-234746 | 26/05/2023 07:58:37 | agreed |
| S5-234747 | 26/05/2023 07:58:47 | agreed |
| S5-234748 | 26/05/2023 07:59:07 | not pursued |
| S5-234749 | 26/05/2023 07:59:23 | not pursued |
| S5-234750 | 26/05/2023 07:59:45 | not pursued |
| S5-234751 | 26/05/2023 07:59:51 | not pursued |
| S5-234752 | 26/05/2023 08:00:02 | agreed |
| S5-234753 | 26/05/2023 08:00:04 | agreed |
| S5-234754 | 26/05/2023 08:11:55 | agreed |
| S5-234755 | 26/05/2023 08:12:03 | agreed |
| S5-234756 | 26/05/2023 08:12:13 | agreed |
| S5-234757 | 26/05/2023 08:12:21 | agreed |
| S5-234758 | 26/05/2023 08:12:31 | agreed |
| S5-234759 | 26/05/2023 08:12:39 | agreed |
| S5-234760 | 26/05/2023 12:53:11 | not pursued |
| S5-234761 | 26/05/2023 12:53:32 | not pursued |
| S5-234762 | 26/05/2023 08:12:49 | agreed |
| S5-234763 | 26/05/2023 08:12:58 | agreed |
| S5-234764 | 26/05/2023 08:13:02 | agreed |
| S5-234765 | 26/05/2023 08:13:06 | agreed |
| S5-234765 | 26/05/2023 08:13:29 | not pursued |
| S5-234766 | 26/05/2023 08:13:47 | not pursued |
| S5-234767 | 26/05/2023 08:14:00 | agreed |
| S5-234767 | 26/05/2023 08:16:13 | not pursued |
| S5-234768 | 26/05/2023 08:14:04 | agreed |
| S5-234768 | 26/05/2023 08:16:29 | not pursued |
| S5-234769 | 25/05/2023 17:05:12 | withdrawn |
| S5-234770 | 25/05/2023 17:06:21 | withdrawn |
| S5-234771 | 25/05/2023 17:07:05 | withdrawn |
| S5-234772 | 26/05/2023 08:22:31 | agreed |
| S5-234773 | 26/05/2023 08:22:38 | agreed |
| S5-234774 | 25/05/2023 10:15:00 | agreed |
| S5-234775 | 26/05/2023 08:23:28 | agreed |
| S5-234776 | 26/05/2023 07:33:13 | approved |
| S5-234777 | 26/05/2023 08:23:44 | agreed |
| S5-234778 | 26/05/2023 08:23:53 | agreed |
| S5-234779 | 26/05/2023 08:24:32 | agreed |
| S5-234780 | 26/05/2023 08:24:57 | agreed |
| S5-234781 | 26/05/2023 08:25:09 | agreed |
| S5-234782 | 26/05/2023 08:25:15 | agreed |
| S5-234783 | 26/05/2023 08:25:46 | withdrawn |
| S5-234784 | 26/05/2023 08:26:24 | withdrawn |
| S5-234784 | 26/05/2023 12:15:29 | available |
| S5-234784 | 26/05/2023 12:15:38 | agreed |
| S5-234785 | 26/05/2023 08:27:42 | agreed |
| S5-234786 | 26/05/2023 12:10:07 | not pursued |
| S5-234787 | 26/05/2023 09:52:22 | not pursued |
| S5-234788 | 26/05/2023 08:28:44 | agreed |
| S5-234788 | 26/05/2023 08:29:00 | not pursued |
| S5-234789 | 26/05/2023 08:29:07 | not pursued |
| S5-234790 | 26/05/2023 08:29:19 | agreed |
| S5-234791 | 26/05/2023 08:29:25 | agreed |
| S5-234792 | 26/05/2023 08:29:34 | agreed |
| S5-234793 | 26/05/2023 08:29:37 | agreed |
| S5-234794 | 26/05/2023 08:29:42 | agreed |
| S5-234794 | 26/05/2023 08:30:39 | not pursued |
| S5-234794 | 26/05/2023 14:50:39 | agreed |
| S5-234795 | 26/05/2023 08:30:51 | not pursued |
| S5-234795 | 26/05/2023 14:51:08 | agreed |
| S5-234796 | 26/05/2023 08:31:28 | not treated |
| S5-234796 | 26/05/2023 08:31:33 | not pursued |
| S5-234796 | 26/05/2023 14:51:16 | agreed |
| S5-234797 | 26/05/2023 08:31:40 | not pursued |
| S5-234797 | 26/05/2023 14:51:26 | agreed |
| S5-234798 | 26/05/2023 10:33:38 | withdrawn |
| S5-234799 | 26/05/2023 10:26:40 | not pursued |
| S5-234800 | 26/05/2023 14:16:20 | agreed |
| S5-234801 | 26/05/2023 09:31:57 | agreed |
| S5-234802 | 26/05/2023 09:32:05 | agreed |
| S5-234803 | 26/05/2023 09:32:09 | agreed |
| S5-234804 | 26/05/2023 07:36:15 | not pursued |
| S5-234805 | 26/05/2023 09:33:52 | agreed |
| S5-234806 | 26/05/2023 07:55:26 | agreed |
| S5-234807 | 26/05/2023 10:25:33 | approved |
| S5-234808 | 26/05/2023 09:33:59 | agreed |
| S5-234809 | 26/05/2023 09:34:07 | agreed |
| S5-234810 | 25/05/2023 16:48:48 | agreed |
| S5-234811 | 26/05/2023 09:34:26 | agreed |
| S5-234812 | 26/05/2023 09:34:30 | agreed |
| S5-234813 | 26/05/2023 09:36:38 | agreed |
| S5-234814 | 26/05/2023 09:36:47 | agreed |
| S5-234815 | 26/05/2023 09:29:33 | agreed |
| S5-234816 | 26/05/2023 09:29:37 | agreed |
| S5-234817 | 26/05/2023 12:59:13 | not pursued |
| S5-234818 | 26/05/2023 12:18:27 | approved |
| S5-234819 | 26/05/2023 12:27:41 | approved |
| S5-234820 | 26/05/2023 12:22:35 | approved |
| S5-234821 | 26/05/2023 12:23:09 | approved |
| S5-234822 | 26/05/2023 12:19:56 | approved |
| S5-234823 | 26/05/2023 12:04:00 | endorsed |
| S5-234824 | 26/05/2023 12:08:56 | approved |
| S5-234825 | 26/05/2023 08:01:17 | agreed |
| S5-234826 | 26/05/2023 13:59:43 | revised |
| S5-234827 | 26/05/2023 12:18:55 | approved |
| S5-234828 | 26/05/2023 12:19:22 | approved |
| S5-234829 | 26/05/2023 12:20:53 | approved |
| S5-234830 | 26/05/2023 13:55:25 | agreed |
| S5-234831 | 26/05/2023 13:31:53 | agreed |
| S5-234831 | 26/05/2023 13:31:56 | approved |
| S5-234832 | 26/05/2023 12:46:11 | agreed |
| S5-234833 | 26/05/2023 12:27:10 | approved |
| S5-234834 | 26/05/2023 14:56:46 | agreed |
| S5-234835 | 26/05/2023 14:55:52 | agreed |
| S5-234836 | 26/05/2023 14:57:21 | agreed |
| S5-234837 | 26/05/2023 12:57:21 | agreed |
| S5-234838 | 26/05/2023 14:59:07 | reserved |
| S5-234838 | 05/06/2023 12:33:01 | approved |
| S5-234839 | 26/05/2023 14:54:50 | approved |
| S5-234840 | 26/05/2023 14:31:00 | approved |
| S5-234841 | 26/05/2023 14:30:41 | approved |
| S5-234842 | 26/05/2023 14:38:56 | approved |
| S5-234842 | 26/05/2023 15:05:54 | withdrawn |
| S5-234843 | 26/05/2023 15:03:17 | approved |
| S5-234844 | 26/05/2023 15:08:12 | approved |
| S5-234845 | 26/05/2023 15:19:00 | reserved |
| S5-234845 | 05/06/2023 12:33:00 | approved |
| S5-234846 | 26/05/2023 15:25:15 | reserved |
| S5-234846 | 05/06/2023 12:32:58 | approved |
| S5-234847 | 26/05/2023 15:24:57 | reserved |
| S5-234847 | 05/06/2023 12:32:59 | approved |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S5-233920 | Rel-17 CR TS 28.104 Correcting attribute type for Recommended 3GPP action and MDA type for Paging Use case | Nokia, Nokia Shanghai Bell | 28.104 | 0044 | - | Rel-17 | F | eMDAS | agreed |
| S5-233921 | Rel-17 CR TS 28.104 Replacing MDAEntity with ManagedEntity | Nokia, Nokia Shanghai Bell | 28.104 | 0045 | - | Rel-17 | F | eMDAS | not pursued |
| S5-234100 | Add error handling in MDA report | Huawei | 28.104 | 0046 | - | Rel-17 | F | eMDAS | not pursued |
| S5-234101 | Correction of attributes in MDAOutputs dataType | Huawei | 28.104 | 0047 | - | Rel-17 | F | eMDAS | revised |
| S5-234775 | Correction of attributes in MDAOutputs dataType | Huawei | 28.104 | 0047 | 1 | Rel-17 | F | eMDAS | agreed |
| S5-234102 | Remove duplicate mdaType in MDA report | Huawei | 28.104 | 0048 | - | Rel-17 | F | eMDAS | agreed |
| S5-234111 | Add information elements related to fault management | Huawei | 28.104 | 0049 | - | Rel-18 | B | eMDAS\_Ph2 | revised |
| S5-234712 | Add information elements related to fault management | Huawei | 28.104 | 0049 | 1 | Rel-18 | B | eMDAS\_Ph2 | not pursued |
| S5-234112 | Add information elements related to service experience analysis | Huawei | 28.104 | 0050 | - | Rel-18 | B | eMDAS\_Ph2 | revised |
| S5-234713 | Add information elements related to service experience analysis | Huawei | 28.104 | 0050 | 1 | Rel-18 | B | eMDAS\_Ph2 | agreed |
| S5-234113 | Add use case of MDA assisted virtual resource utilization analysis in CN domain | Huawei | 28.104 | 0051 | - | Rel-18 | B | eMDAS\_Ph2 | revised |
| S5-234787 | Add use case of MDA assisted virtual resource utilization analysis in CN domain | Huawei | 28.104 | 0051 | 1 | Rel-18 | B | eMDAS\_Ph2 | not pursued |
| S5-234114 | Describe analytics relationship to control loop | Huawei | 28.104 | 0052 | - | Rel-18 | B | eMDAS\_Ph2 | not pursued |
| S5-234424 | CR TS28.104 Corrections of the requirements on MDA capability | NEC, Intel | 28.104 | 0053 | - | Rel-17 | F | eMDAS | revised |
| S5-234778 | CR TS28.104 Corrections of the requirements on MDA capability | NEC, Intel | 28.104 | 0053 | 1 | Rel-17 | F | eMDAS | agreed |
| S5-233922 | Rel-17 CR TS 28.105 Correcting the attribute properties | Nokia, Nokia Shanghai Bell | 28.105 | 0022 | - | Rel-17 | F | eMDAS | revised |
| S5-234779 | Rel-17 CR TS 28.105 Correcting the attribute properties | Nokia, Nokia Shanghai Bell | 28.105 | 0022 | 1 | Rel-17 | F | eMDAS | agreed |
| S5-233928 | Rel-18 CR TS 28.105 Modelling ML Entity | Nokia, Nokia Shanghai Bell | 28.105 | 0023 | - | Rel-18 | C | AIML\_MGT | revised |
| S5-234657 | Rel-18 CR TS 28.105 Modelling ML Entity | Nokia, Nokia Shanghai Bell | 28.105 | 0023 | 1 | Rel-18 | C | AIML\_MGT | agreed |
| S5-234037 | Rel-17 CR TS 28.105 Grammatical Corrections | Nokia, Nokia Shanghai Bell | 28.105 | 0024 | - | Rel-17 | D | TEI17 | revised |
| S5-234837 | Rel-17 CR TS 28.105 Grammatical Corrections | Nokia, Nokia Shanghai Bell | 28.105 | 0024 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234060 | Rel-17 CR TS28.105 ML batchTraining | Nokia Germany | 28.105 | 0025 | - | Rel-17 | C | TEI17 | not pursued |
| S5-234130 | Rel-18 CR TS 28.105 Add use case and requirement for ML entities updating initiated by producer | Huawei | 28.105 | 0026 | - | Rel-18 | B | AIML\_MGT | merged |
| S5-234131 | Rel-18 CR TS 28.105 Add use case and requirement for AIML update control | Huawei | 28.105 | 0027 | - | Rel-18 | B | AIML\_MGT | merged |
| S5-234132 | Rel-18 CR TS 28.105 Add use case and requirement for AIML performance evaluation in inference phase | Huawei | 28.105 | 0028 | - | Rel-18 | B | AIML\_MGT | merged |
| S5-234133 | Rel-18 CR TS 28.105 Add use case and requirements for ML entity configuration initiated by producer | Huawei | 28.105 | 0029 | - | Rel-18 | B | AIML\_MGT | withdrawn |
| S5-234353 | CR Rel-17 TS 28.105 Removal of SW loading from training phase | Ericsson-LG Co., LTD | 28.105 | 0030 | - | Rel-17 | F | eMDAS | agreed |
| S5-234355 | Rel-17 TS 28.105 Correction of the figure for ML training function | Ericsson-LG Co., LTD | 28.105 | 0031 | - | Rel-17 | F | eMDAS | revised |
| S5-234777 | Rel-17 TS 28.105 Correction of the figure for ML training function | Ericsson-LG Co., LTD | 28.105 | 0031 | 1 | Rel-17 | F | eMDAS | agreed |
| S5-234593 | CR to TS 28.105 on Enhancements to TS structure | NEC, Intel, Nokia | 28.105 | 0032 | - | Rel-18 | B | AIML\_MGT | agreed |
| S5-233887 | Update NG-RAN data EE KPI definition with reference to TS 28.554 | Nokia, Nokia Shanghai Bell | 28.310 | 0028 | - | Rel-16 | F | TEI16 | not pursued |
| S5-233888 | Update NG-RAN data EE KPI definition with reference to TS 28.554 | Nokia, Nokia Shanghai Bell | 28.310 | 0029 | - | Rel-17 | A | TEI16 | not pursued |
| S5-233889 | Update NG-RAN data EE KPI definition with reference to TS 28.554 | Nokia, Nokia Shanghai Bell | 28.310 | 0030 | - | Rel-18 | A | TEI16 | not pursued |
| S5-233890 | Remove redundant Network Slice EE KPI definition | Nokia, Nokia Shanghai Bell | 28.310 | 0031 | - | Rel-17 | F | TEI17 | not pursued |
| S5-233891 | Remove redundant Network Slice EE KPI definition | Nokia, Nokia Shanghai Bell | 28.310 | 0032 | - | Rel-18 | A | TEI17 | not pursued |
| S5-234418 | Rel-18 CR for TS28.310 several editorial Corrections | ZTE Corporation | 28.310 | 0033 | - | Rel-18 | F | TEI18 | revised |
| S5-234813 | Rel-18 CR for TS28.310 editorial Corrections | ZTE Corporation | 28.310 | 0033 | 1 | Rel-18 | F | TEI18 | agreed |
| S5-233871 | Rel18 CR 28312 Use case and Requirements Intent-driven Closed Loop control | Nokia, Nokia Shangai Bell | 28.312 | 0027 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234668 | Rel18 CR 28312 Use case and Requirements Intent-driven Closed Loop control | Nokia, Nokia Shangai Bell | 28.312 | 0027 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-233872 | Rel18\_CR\_28312 Use case and Requirements on Testing Intent MnS Capabilities | Nokia, Nokia Shangai Bell | 28.312 | 0028 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234760 | Rel18\_CR\_28312 Use case and Requirements on Testing Intent MnS Capabilities | Nokia, Nokia Shangai Bell | 28.312 | 0028 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-233873 | Rel18\_CR\_28312 Use case and Requirements on Mapping Intents to ML capabilities | Nokia, Nokia Shangai Bell | 28.312 | 0029 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234761 | Rel18\_CR\_28312 Use case and Requirements on Mapping Intents to ML capabilities | Nokia, Nokia Shangai Bell | 28.312 | 0029 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-233874 | Rel18\_CR\_28312 Use case and Requirements on Intent-driven SON orchestration | Nokia, Nokia Shangai Bell | 28.312 | 0030 | - | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-233875 | Rel18 CR 28312 Use case and Requirements on expectation for network optimization | Nokia, Nokia Shangai Bell | 28.312 | 0031 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234675 | Rel18 CR 28312 Use case and Requirements on expectation for network optimization | Nokia, Nokia Shangai Bell | 28.312 | 0031 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233876 | Rel18 CR 28312 Use case and Requirements on Intent conflicts | Nokia, Nokia Shangai Bell | 28.312 | 0032 | - | Rel-18 | B | IDMS\_MN\_ph2 | merged |
| S5-233877 | Rel-18 CR TS 28.312 information model change to support intent priorities | Nokia, Nokia Shangai Bell, DOCOMO | 28.312 | 0033 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234671 | Rel-18 CR TS 28.312 information model change to support intent priorities | Nokia, Nokia Shangai Bell, DOCOMO | 28.312 | 0033 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-233910 | Rel-18 CR TS 28.312 Clarify how generic provisioning MnS can be used for intent lifecycle management | Huawei,Nokia Deutsche Telekom | 28.312 | 0034 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234660 | Rel-18 CR TS 28.312 Clarify how generic provisioning MnS can be used for intent lifecycle management | Huawei,Nokia Deutsche Telekom | 28.312 | 0034 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233911 | Rel-18 CR TS 28.312 Add missing yaml document examples for scenario specific intent instance | Huawei,Nokia,Deutsche Telekom | 28.312 | 0035 | - | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233912 | Rel-18 CR TS 28.312 Add use case and requirements for intent driven approach for RAN energy saving | Huawei,Deutsche Telekom | 28.312 | 0036 | - | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233913 | Add use case and requirements for intent driven approach for radio network capacity optimization | Huawei,Deutsche Telekom | 28.312 | 0037 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234661 | Add use case and requirements for intent driven approach for radio network capacity optimization | Huawei,Deutsche Telekom | 28.312 | 0037 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233914 | Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining | Huawei,Deutsche Telekom | 28.312 | 0038 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234715 | Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining | Huawei, Deutsche Telekom | 28.312 | 0038 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234836 | Rel-18 CR TS 28.312 Add general concept and requirements for intent handling capability obtaining | Huawei, Deutsche Telekom | 28.312 | 0038 | 2 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233915 | Add general concept and requirements for intent report | Huawei, Deutsche Telekom | 28.312 | 0039 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234664 | Add general concept and requirements for intent report | Huawei, Deutsche Telekom | 28.312 | 0039 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233946 | Add the use cases for Intent containing an expectation for delivering 5GC network | AsiaInfo | 28.312 | 0040 | - | Rel-18 | B | IDMS\_MN\_ph2 | merged |
| S5-233956 | Add the use cases for intent containing an expectation on 5GC network performance to be assured | AsiaInfo | 28.312 | 0041 | - | Rel-18 | B | IDMS\_MN\_ph2 | merged |
| S5-233987 | Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance | AsiaInfo | 28.312 | 0042 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234666 | Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance | AsiaInfo | 28.312 | 0042 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234834 | Add the solution for 5GC Network Expectation of delivering 5GC network and performance assurance | AsiaInfo, Huawei | 28.312 | 0042 | 2 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-233988 | Add new capabilities for intent driven management for Intent fulfilment feasibility checks | AsiaInfo | 28.312 | 0043 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234667 | Add new capabilities for intent driven management for Intent fulfilment feasibility checks | AsiaInfo | 28.312 | 0043 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-233992 | Rel-17 CR TS 28.312 Correct the supported qualifier for ExpectationObject and allowed value for contextCondition | Huawei,Nokia,Deutsche Telekom, CMCC, ZTE | 28.312 | 0044 | - | Rel-17 | F | IDMS\_MN | revised |
| S5-234780 | Rel-17 CR TS 28.312 Correct the supported qualifier for ExpectationObject and allowed value for contextCondition | Huawei, Nokia, Deutsche Telekom, China Mobile Com. Corporation, ZTE | 28.312 | 0044 | 1 | Rel-17 | F | IDMS\_MN | agreed |
| S5-233993 | Rel-17 CR TS 28.312 Update IntentNRM YAML file to align with stage2 | Huawei | 28.312 | 0045 | - | Rel-17 | F | IDMS\_MN | agreed |
| S5-233994 | Rel-17 CR TS 28.312 Separate YAML file for generic Information model definition and scenario specific IntentExpectation definition | Huawei | 28.312 | 0046 | - | Rel-17 | F | IDMS\_MN | revised |
| S5-234781 | Rel-17 CR TS 28.312 Separate YAML file for generic Information model definition and scenario specific IntentExpectation definition | Huawei | 28.312 | 0046 | 1 | Rel-17 | F | IDMS\_MN | agreed |
| S5-233995 | Rel-17 CR TS 28.312 Correct the errors in Table 6.2.2.2-1 | Huawei | 28.312 | 0047 | - | Rel-17 | F | IDMS\_MN | revised |
| S5-234782 | Rel-17 CR TS 28.312 Correct the errors in Table 6.2.2.2-1 | Huawei | 28.312 | 0047 | 1 | Rel-17 | F | IDMS\_MN | agreed |
| S5-234024 | Rel18 CR 28312 Use case and Requirements exposing Intent-Logic | Nokia, Nokia Shangai Bell | 28.312 | 0048 | - | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-234029 | Rel-17 CR TS 28.312 Intent Context and Expectation object support for multiple data types | Nokia, Nokia Shanghai Bell | 28.312 | 0049 | - | Rel-17 | F | TEI17 | revised |
| S5-234783 | Rel-17 CR TS 28.312 Intent Context and Expectation object support for multiple data types | Nokia, Nokia Shanghai Bell, CMCC, ZTE | 28.312 | 0049 | 1 | Rel-17 | F | IDMS\_MN | withdrawn |
| S5-234085 | Rel-18 CR TS 28.312 add procedure of intent conflict resolution based on intent preemption | NTT DOCOMO | 28.312 | 0050 | - | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-234672 | Rel-18 CR TS 28.312 add procedure of intent conflict resolution based on intent preemption | NTT DOCOMO | 28.312 | 0050 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | withdrawn |
| S5-234087 | Rel-18 CR TS 28.312 information model change to support intent preemption attributes | NTT DOCOMO | 28.312 | 0051 | - | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-234673 | Rel-18 CR TS 28.312 information model change to support intent preemption attributes | NTT DOCOMO | 28.312 | 0051 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | withdrawn |
| S5-234115 | Add concept of intent validation | Huawei | 28.312 | 0052 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234674 | Remove concept of intent validation | Huawei | 28.312 | 0052 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-234116 | Adding new UC for 5GC NF delivery | Huawei | 28.312 | 0053 | - | Rel-18 | B | IDMS\_MN\_ph2 | merged |
| S5-234117 | Rel-18 CR 28.312 adding new UC for 5GC performace assurance | Huawei | 28.312 | 0054 | - | Rel-18 | B | IDMS\_MN\_ph2 | merged |
| S5-234118 | Adding new UC for 5GC subnetwork delivery | Huawei | 28.312 | 0055 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234662 | Adding new UC for 5GC subnetwork delivery | AsiaInfo, Huawei | 28.312 | 0055 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234835 | Adding new UC for 5GC subnetwork delivery | AsiaInfo, Huawei | 28.312 | 0055 | 2 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-234119 | Update description related to intent driven closed loop | Huawei | 28.312 | 0056 | - | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-234669 | Update description related to intent driven closed loop | Huawei | 28.312 | 0056 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | withdrawn |
| S5-234154 | Fixing documentation and allowed value bug in contextValueRange attribute | China Mobile Com. Corporation | 28.312 | 0057 | - | Rel-17 | A | IDMS\_MN | withdrawn |
| S5-234156 | Rel-17 CR 28.312 Clarify the definition of intent expectation fulfilment | L.M. Ericsson Limited, Deutsche Telekom | 28.312 | 0058 | - | Rel-17 | F | IDMS\_MN | revised |
| S5-234785 | Rel-17 CR 28.312 Clarify the definition of intent expectation fulfilment | L.M. Ericsson Limited, Deutsche Telekom | 28.312 | 0058 | 1 | Rel-17 | F | IDMS\_MN | agreed |
| S5-234157 | Clarify service support intent expectation | Ericsson, Deutsche Telekom | 28.312 | 0059 | - | Rel-18 | C | IDMS\_MN\_ph2 | agreed |
| S5-234163 | Rel-18 CR TS 28.312 Add general concept and requirements for intent conflict | Huawei | 28.312 | 0060 | - | Rel-18 | B | IDMS\_MN\_ph2 | revised |
| S5-234670 | Rel-18 CR TS 28.312 Add general concept and requirements for intent conflict | Nokia, Nokia Shangai Bell, Huawei | 28.312 | 0060 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-234165 | Rel-17 CR 28.312 Add ValueRange type and replace the Real type | China Mobile Com. Corporation | 28.312 | 0061 | - | Rel-17 | A | IDMS\_MN | withdrawn |
| S5-234172 | Rel-17 CR 28.312 Add IS\_ALL\_OF to allowedValues in targetCondition and contextCondition attributes | China Mobile Com. Corporation | 28.312 | 0062 | - | Rel-17 | A | IDMS\_MN | withdrawn |
| S5-234173 | Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes | China Mobile Com. Corporation | 28.312 | 0063 | - | Rel-17 | A | IDMS\_MN | withdrawn |
| S5-234228 | Rel-17 CR 28.312 Add ValueRange type and replace the Real type | China Mobile Com. Corporation, ZTE | 28.312 | 0064 | - | Rel-17 | A | IDMS\_MN | merged |
| S5-234230 | Rel-17 CR 28.312 Add IS\_ALL\_OF to allowedValues in targetCondition and contextCondition attributes | China Mobile Com. Corporation, ZTE | 28.312 | 0065 | - | Rel-17 | A | IDMS\_MN | merged |
| S5-234235 | Rel-17 CR 28.312 Fixing documentation and allowed value bug in contextValueRange attribute | China Mobile Com. Corporation | 28.312 | 0066 | - | Rel-17 | A | IDMS\_MN | revised |
| S5-234784 | Rel-17 CR 28.312 Fixing documentation and allowed value bug in contextValueRange attribute | China Mobile Com. Corporation | 28.312 | 0066 | 1 | Rel-17 | F | IDMS\_MN | agreed |
| S5-234249 | Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information | ZTE Corporation | 28.312 | 0067 | - | Rel-18 | B | FS\_NETSLICE\_IDMS | revised |
| S5-234665 | Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information | ZTE Corporation | 28.312 | 0067 | 1 | Rel-18 | B | FS\_NETSLICE\_IDMS | revised |
| S5-234832 | Rel-18 CR TS 28.312 Add description on monitoring the intent fulfilment information | ZTE Corporation | 28.312 | 0067 | 2 | Rel-18 | B | IDMS\_MN\_ph2 | agreed |
| S5-234351 | Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes | China Mobile Com. Corporation | 28.312 | 0068 | - | Rel-17 | A | IDMS\_MN | revised |
| S5-234786 | Rel-17 CR 28.312 Add REPORT to allowedValues in expectationVerb attributes | China Mobile Com. Corporation | 28.312 | 0068 | 1 | Rel-18 | B | IDMS\_MN\_ph2 | not pursued |
| S5-234419 | Rel-18 CR for TS28.405 several editorial Corrections | ZTE Corporation | 28.405 | 0023 | - | Rel-18 | F | TEI18 | agreed |
| S5-234016 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0167 | 2 | Rel-15 | F | NETSLICE | revised |
| S5-234794 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0167 | 3 | Rel-15 | F | NETSLICE | agreed |
| S5-234017 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0168 | 2 | Rel-16 | A | NETSLICE | revised |
| S5-234795 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0168 | 3 | Rel-16 | A | NETSLICE | agreed |
| S5-234019 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0169 | 2 | Rel-17 | A | NETSLICE | revised |
| S5-234796 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0169 | 3 | Rel-17 | A | NETSLICE | agreed |
| S5-234020 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0170 | 2 | Rel-18 | A | NETSLICE | revised |
| S5-234797 | Clarify network slicing provisioning use case | Ericsson | 28.531 | 0170 | 3 | Rel-18 | A | NETSLICE | agreed |
| S5-233898 | Update Procedure of Network Slice Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0173 | - | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234587 | Update Procedure of Network Slice Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telefonica | 28.531 | 0173 | 1 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233899 | Update Procedure of Network Slice Instance Deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0174 | - | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234588 | Update Procedure of Network Slice Instance Deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0174 | 1 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233900 | Update Procedure of Network Slice Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0175 | - | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234589 | Update Procedure of Network Slice Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0175 | 1 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233901 | Update Procedure of Network Slice Subnet Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0176 | - | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234590 | Update Procedure of Network Slice Subnet Instance Allocation to support asynchronous operations | Nokia, Nokia Shanghai Bell, Huawei, Telefonica, Ericsson | 28.531 | 0176 | 1 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233902 | Update Procedure of network slice subnet instance deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0177 | - | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234591 | Update Procedure of network slice subnet instance deallocation to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0177 | 1 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233903 | Update Procedure of Network Slice Subnet Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0178 | - | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234592 | Update Procedure of Network Slice Subnet Instance Modification to support asynchronous operations | Nokia, Nokia Shanghai Bell | 28.531 | 0178 | 1 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233904 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | 28.531 | 0179 | - | Rel-17 | F | TEI17 | revised |
| S5-234790 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | 28.531 | 0179 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-233905 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | 28.531 | 0180 | - | Rel-18 | A | TEI17 | revised |
| S5-234791 | Align figure with description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | 28.531 | 0180 | 1 | Rel-18 | A | TEI17 | agreed |
| S5-233906 | Align figure with description in Procedure of NF instance deletion | Nokia, Nokia Shanghai Bell | 28.531 | 0181 | - | Rel-17 | F | TEI17 | agreed |
| S5-233907 | Align figure with description in Procedure of NF instance deletion | Nokia, Nokia Shanghai Bell | 28.531 | 0182 | - | Rel-18 | A | TEI17 | agreed |
| S5-233908 | Align figure with description in Procedure of NF instance modification | Nokia, Nokia Shanghai Bell | 28.531 | 0183 | - | Rel-17 | F | TEI17 | agreed |
| S5-233909 | Align figure with description in Procedure of NF instance modification | Nokia, Nokia Shanghai Bell | 28.531 | 0184 | - | Rel-18 | A | TEI17 | agreed |
| S5-234042 | Correct createMOI response description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | 28.531 | 0185 | - | Rel-17 | F | TEI17 | merged |
| S5-234043 | Correct createMOI response description in Procedure of NF instance creation | Nokia, Nokia Shanghai Bell | 28.531 | 0186 | - | Rel-18 | A | TEI17 | merged |
| S5-234078 | Rel-18 CR TS28.531 Update the network slice (subnet) instance allocation procedures to support async mode | Huawei, Telefonica, Deutsche Telekom,Samsung | 28.531 | 0187 | - | Rel-18 | B | eNETSLICE\_PRO | merged |
| S5-234420 | Rel-18 CR for TS28.531 several editorial Corrections | ZTE Corporation | 28.531 | 0188 | - | Rel-18 | F | TEI18 | agreed |
| S5-233819 | Netconf with-defaults | Ericsson Hungary Ltd | 28.532 | 0249 | - | Rel-17 | A | TEI16 | revised |
| S5-234747 | Netconf with-defaults | Ericsson Hungary Ltd | 28.532 | 0249 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-233820 | Netconf with-defaults | Ericsson Hungary Ltd | 28.532 | 0250 | - | Rel-16 | F | TEI16 | revised |
| S5-234746 | Netconf with-defaults | Ericsson Hungary Ltd | 28.532 | 0250 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-233821 | Indicate missed data change notifications | Ericsson Hungary Ltd | 28.532 | 0251 | - | Rel-17 | F | TEI17 | not pursued |
| S5-233981 | TS28.532 Rel16 Add missing definition of the JSON Patch document | Nokia, Nokia Shanghai Bell | 28.532 | 0252 | - | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-233982 | TS28.532 Rel17 Add missing definition of the JSON Patch document | Nokia, Nokia Shanghai Bell | 28.532 | 0253 | - | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-233983 | TS28.532 Rel16 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | 28.532 | 0254 | - | Rel-16 | F | TEI16, REST\_SS | revised |
| S5-234808 | TS28.532 Rel16 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | 28.532 | 0254 | 1 | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-233984 | TS28.532 Rel17 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | 28.532 | 0255 | - | Rel-17 | A | TEI16, REST\_SS | revised |
| S5-234809 | TS28.532 Rel17 correction the Information Type for objectClass objectInstance and systemDN | Nokia, Nokia Shanghai Bell | 28.532 | 0255 | 1 | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-233985 | TS 28.532 Rel17 resources-edgeNrm is missing in resource schema | Nokia, Nokia Shanghai Bell | 28.532 | 0256 | - | Rel-17 | F | TEI17 | agreed |
| S5-234022 | Rel-16 CR 28.532 Correct media types used with HTTP Patch | Nokia, Nokia Shanghai Bell | 28.532 | 0257 | - | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-234023 | Rel-17 CR 28.532 Correct media types used with HTTP Patch | Nokia, Nokia Shanghai Bell | 28.532 | 0258 | - | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-234103 | Rel-16 CR 28.532 clarification on notification target | Huawei | 28.532 | 0259 | - | Rel-16 | F | TEI16 | revised |
| S5-234810 | Rel-16 CR 28.532 clarification on notification target | Huawei | 28.532 | 0259 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-234104 | Clarification on notification target | Huawei | 28.532 | 0260 | - | Rel-17 | A | TEI16 | agreed |
| S5-234276 | Correction of reference and alarm information | Ericsson | 28.532 | 0261 | - | Rel-15 | F | TEI15 | agreed |
| S5-234769 | Correction of reference and alarm information | Ericsson | 28.532 | 0261 | 1 | Rel-15 | F | TEI15 | withdrawn |
| S5-234279 | Correction of RFC references and alarm information | Ericsson | 28.532 | 0262 | - | Rel-16 | A | TEI15 | agreed |
| S5-234770 | Correction of RFC references and alarm information | Ericsson | 28.532 | 0262 | 1 | Rel-16 | A | TEI15 | withdrawn |
| S5-234282 | Correction of RFC references, and alarm information | Ericsson | 28.532 | 0263 | - | Rel-17 | A | TEI15 | agreed |
| S5-234771 | Correction of RFC references, and alarm information | Ericsson | 28.532 | 0263 | 1 | Rel-17 | A | TEI15 | withdrawn |
| S5-234375 | Rel-17 CR 28.532 Clarify streaming data reporting service definitions | Ericsson Inc. | 28.532 | 0264 | - | Rel-17 | F | TM\_SBMA | revised |
| S5-234774 | Rel-17 CR 28.532 Clarify streaming data reporting service definitions | Ericsson Inc. | 28.532 | 0264 | 1 | Rel-17 | F | TEI17,TM\_SBMA | agreed |
| S5-234302 | Update lifecycle phase description of closed control loop | Huawei | 28.535 | 0070 | - | Rel-17 | F | TEI17 | agreed |
| S5-234370 | Rel-17 CR 28.537 Clarify management service discovery use cases | Ericsson Inc. | 28.537 | 0012 | - | Rel-17 | F | 5GDMS | not pursued |
| S5-233945 | Correct the wrong and missing clauses of reference | AsiaInfo | 28.538 | 0033 | - | Rel-18 | F | eECM | agreed |
| S5-234105 | Correct EAS to connect to UPF procedure | Huawei | 28.538 | 0034 | - | Rel-17 | F | ECM | revised |
| S5-234815 | Correct EAS to connect to UPF procedure | Huawei | 28.538 | 0034 | 1 | Rel-17 | F | ECM | agreed |
| S5-234106 | Correction of ECM NRM | Huawei | 28.538 | 0035 | - | Rel-17 | F | ECM | agreed |
| S5-234108 | Correct EAS to connect to UPF procedure | Huawei | 28.538 | 0036 | - | Rel-18 | A | ECM | revised |
| S5-234816 | Correct EAS to connect to UPF procedure | Huawei | 28.538 | 0036 | 1 | Rel-18 | A | ECM | agreed |
| S5-234109 | Correction of ECM NRM | Huawei | 28.538 | 0037 | - | Rel-18 | A | ECM | agreed |
| S5-234422 | Rel-18 CR for TS28.538 several editorial Corrections | ZTE Corporation | 28.538 | 0038 | - | Rel-18 | F | TEI18 | agreed |
| S5-233897 | Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations | Nokia, Nokia Shanghai Bell, Ericsson | 28.541 | 0800 | 4 | Rel-18 | B | eNETSLICE\_PRO | revised |
| S5-234586 | Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telefonica | 28.541 | 0800 | 5 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233892 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | 28.541 | 0852 | 2 | Rel-17 | F | TEI17 | revised |
| S5-234788 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | 28.541 | 0852 | 3 | Rel-17 | F | TEI17 | not pursued |
| S5-233893 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | 28.541 | 0853 | 2 | Rel-18 | A | TEI17 | revised |
| S5-234789 | Add missing SLS attributes supported in serviceProfile to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS, Huawei | 28.541 | 0853 | 3 | Rel-18 | A | TEI17 | not pursued |
| S5-234290 | Add NRM for network slice isolation | Nokia, Nokia Shanghai Bell | 28.541 | 0858 | 2 | Rel-18 | B | NSRULE | revised |
| S5-234700 | Add NRM for network slice isolation | Nokia, Nokia Shanghai Bell | 28.541 | 0858 | 3 | Rel-18 | B | NSRULE | not pursued |
| S5-234150 | Rel-17 CR 28.541 Clarify use of V2X in service profile | L.M. Ericsson Limited, Deutsche Telekom | 28.541 | 0886 | 1 | Rel-17 | F | TEI17 | not pursued |
| S5-234151 | Rel-18 CR 28.541 Clarify use of V2X in service profile | Ericsson LM, Deutsche Telekom | 28.541 | 0887 | 1 | Rel-18 | A | TEI17 | not pursued |
| S5-233894 | Add SLS attributes availability and jitter to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS | 28.541 | 0892 | - | Rel-17 | F | TEI17 | not pursued |
| S5-233895 | Add SLS attributes availability and jitter to sliceProfile | Nokia, Nokia Shanghai Bell, KDDI, TELUS | 28.541 | 0893 | - | Rel-18 | A | TEI17 | not pursued |
| S5-233958 | Rel18 CR TS28.541 NRM enhancements for NRFFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0894 | - | Rel-18 | B | AdNRM\_ph2 | revised |
| S5-234735 | Rel18 CR TS28.541 NRM enhancements for NRFFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0894 | 1 | Rel-18 | B | AdNRM\_ph2 | agreed |
| S5-233959 | Rel18 CR TS28.541 NRM enhancements for CHFFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0895 | - | Rel-18 | B | AdNRM\_ph2 | revised |
| S5-234738 | Rel18 CR TS28.541 NRM enhancements for CHFFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0895 | 1 | Rel-18 | B | AdNRM\_ph2 | agreed |
| S5-233960 | Rel18 CR TS28.541 NRM enhancements for MFAFFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0896 | - | Rel-18 | B | AdNRM\_ph2 | revised |
| S5-234739 | Rel18 CR TS28.541 NRM enhancements for MFAFFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0896 | 1 | Rel-18 | B | AdNRM\_ph2 | agreed |
| S5-233961 | Rel18 CR TS28.541 NRM enhancements for DCCFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0897 | - | Rel-18 | B | AdNRM\_ph2 | agreed |
| S5-234740 | Rel18 CR TS28.541 NRM enhancements for DCCFunction | Nokia, Nokia Shanghai Bell | 28.541 | 0897 | 1 | Rel-18 | B | AdNRM\_ph2 | withdrawn |
| S5-233962 | Rel18 CR TS28.541 NRM enhancements for class diagram | Nokia, Nokia Shanghai Bell | 28.541 | 0898 | - | Rel-18 | B | AdNRM\_ph2 | agreed |
| S5-233963 | TS28.541 Rel17 Correction to dCHOControl by adding definition to attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0899 | - | Rel-17 | F | TEI17 | agreed |
| S5-233964 | Correction to dCHOControl by adding definition to attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0900 | - | Rel-18 | A | TEI17 | agreed |
| S5-233965 | TS28.541 Rel16 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | 28.541 | 0901 | - | Rel-16 | F | TEI16 | revised |
| S5-234801 | TS28.541 Rel16 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | 28.541 | 0901 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-233966 | TS28.541 Rel17 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | 28.541 | 0902 | - | Rel-17 | A | TEI16 | revised |
| S5-234802 | TS28.541 Rel17 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | 28.541 | 0902 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-233967 | TS28.541 Rel18 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | 28.541 | 0903 | - | Rel-18 | A | TEI16 | revised |
| S5-234803 | TS28.541 Rel18 Correction to multiplicity definition to nRPciList and stage 3 implementation of both NRPciList and CSonPciList | Nokia, Nokia Shanghai Bell | 28.541 | 0903 | 1 | Rel-18 | A | TEI16 | agreed |
| S5-233968 | TS28.541 Rel18 Corrections to missing properties for a few attributes | Nokia, Nokia Shanghai Bell | 28.541 | 0904 | - | Rel-18 | F | AdNRM\_ph2 | agreed |
| S5-234741 | TS28.541 Rel18 Corrections to missing properties for a few attributes | Nokia, Nokia Shanghai Bell | 28.541 | 0904 | 1 | Rel-18 | F | AdNRM\_ph2 | withdrawn |
| S5-233969 | Rel18 CR TS28.541 Improve EP\_Transport model to clarify connection point info | Nokia, Nokia Shanghai Bell, Ericsson, TELUS, KDDI, Verizon | 28.541 | 0905 | - | Rel-18 | C | AdNRM\_ph2 | revised |
| S5-234742 | Rel18 CR TS28.541 Improve EP\_Transport model to clarify connection point info | Nokia, Nokia Shanghai Bell, Ericsson, TELUS, KDDI, Verizon, Telefonica, Huawei | 28.541 | 0905 | 1 | Rel-18 | C | AdNRM\_ph2 | agreed |
| S5-233970 | TS28.541 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0906 | - | Rel-16 | F | TEI16 | revised |
| S5-234555 | TS28.541 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0906 | 1 | Rel-16 | F | TEI16 | agreed |
| S5-233971 | TS28.541 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0907 | - | Rel-17 | A | TEI16 | revised |
| S5-234676 | TS28.541 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0907 | 1 | Rel-17 | A | TEI16 | agreed |
| S5-233972 | TS28.541 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0908 | - | Rel-18 | A | TEI16 | revised |
| S5-234677 | TS28.541 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.541 | 0908 | 1 | Rel-18 | A | TEI16 | agreed |
| S5-233996 | Rel-17 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | 28.541 | 0909 | - | Rel-17 | F | adNRM | revised |
| S5-234792 | Rel-17 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | 28.541 | 0909 | 1 | Rel-17 | F | adNRM | agreed |
| S5-233997 | Rel-18 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | 28.541 | 0910 | - | Rel-18 | A | adNRM | revised |
| S5-234793 | Rel-18 CR TS 28.541 Correct the feasibility check and resource reservation NRM fragment | Huawei | 28.541 | 0910 | 1 | Rel-18 | A | adNRM | agreed |
| S5-233998 | Rel-17 CR TS 28.541 Correct issues for NR NRM | Huawei | 28.541 | 0911 | - | Rel-17 | F | adNRM | agreed |
| S5-233999 | Rel-18 CR TS 28.541 Correct issues for NR NRM | Huawei | 28.541 | 0912 | - | Rel-18 | A | adNRM | agreed |
| S5-234000 | Rel-17 CR TS 28.541 Update SliceNRM YAML to align with stage2 | Huawei | 28.541 | 0913 | - | Rel-17 | F | adNRM | agreed |
| S5-234001 | Rel-18 CR TS 28.541 Update SliceNRM YAML to align with stage2 | Huawei | 28.541 | 0914 | - | Rel-18 | A | adNRM | agreed |
| S5-234071 | YANG Corrections | Ericsson Hungary Ltd | 28.541 | 0915 | - | Rel-17 | F | TEI17 | agreed |
| S5-234073 | YANG Corrections | Ericsson Hungary Ltd | 28.541 | 0916 | - | Rel-18 | F | TEI18 | agreed |
| S5-234098 | R17 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT | China Telecom Corporation Ltd., Huawei | 28.541 | 0917 | - | Rel-17 | F | TEI17 | not pursued |
| S5-234099 | R18 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT | China Telecom Corporation Ltd., Huawei | 28.541 | 0918 | - | Rel-18 | A | TEI17 | revised |
| S5-234804 | R18 CR TS 28.541 Update attributes in ANR to support “Resource Coordination Only” in NCRT | China Telecom Corporation Ltd., Huawei | 28.541 | 0918 | 1 | Rel-18 | B | AdNRM\_ph2 | not pursued |
| S5-234107 | Correction of EcmConnectionInfo | Huawei | 28.541 | 0919 | - | Rel-17 | F | ECM | not pursued |
| S5-234110 | Correction of EcmConnectionInfo | Huawei | 28.541 | 0920 | - | Rel-18 | A | ECM | not pursued |
| S5-234139 | Rel-18 CR 28.541 Update NRM enhancements for NWDAFFunction | China Telecommunication | 28.541 | 0921 | - | Rel-18 | F | AdNRM\_ph2 | agreed |
| S5-234140 | Rel-18 CR 28.541 Add NRM enhancements for NWDAFFunction | China Telecommunication | 28.541 | 0922 | - | Rel-18 | B | MANWDAF | not pursued |
| S5-234152 | Rel-18 CR 28.541 Remove jitter from service profile | L.M. Ericsson Limited, Deutsche Telekom | 28.541 | 0923 | - | Rel-18 | F | NETSLICE | not pursued |
| S5-234159 | Rel-18 CR 28.541 Add network slice selection and sharing information | L.M. Ericsson Limited, Deutsche Telekom | 28.541 | 0924 | - | Rel-18 | B | NSRULE | not pursued |
| S5-234699 | Rel-18 CR 28.541 Add network slice selection and sharing information | L.M. Ericsson Limited, Deutsche Telekom | 28.541 | 0924 | 1 | Rel-18 | B | NSRULE | withdrawn |
| S5-234232 | Rel-17 CR 28.541 fixing coverageArea | Samsung R&D Institute India | 28.541 | 0925 | - | Rel-17 | F | adNRM | revised |
| S5-234811 | Rel-17 CR 28.541 fixing coverageArea | Samsung R&D Institute India | 28.541 | 0925 | 1 | Rel-17 | F | adNRM | agreed |
| S5-234233 | TS28.541 Rel-18 NRM enhancements to support 5GLAN management | China Mobile | 28.541 | 0926 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234689 | TS28.541 Rel-18 NRM enhancements to support 5GLAN management | China Mobile | 28.541 | 0926 | 1 | Rel-18 | B | 5GLAN\_Mgt | not pursued |
| S5-234234 | Rel-18 CR 28.541 fixing coverageArea | Samsung R&D Institute India | 28.541 | 0927 | - | Rel-18 | A | adNRM | revised |
| S5-234812 | Rel-18 CR 28.541 fixing coverageArea | Samsung R&D Institute India | 28.541 | 0927 | 1 | Rel-18 | A | adNRM | agreed |
| S5-234236 | Rel-18 CR Correcting NSSI State Diagram | Samsung R&D Institute India | 28.541 | 0928 | - | Rel-18 | F | AdNRM\_ph2 | not pursued |
| S5-234241 | Add new IOC to support granular access control | Huawei | 28.541 | 0929 | - | Rel-18 | B | MSAC | merged |
| S5-234714 | Add new IOC to support granular access control | Huawei | 28.541 | 0929 | 1 | Rel-18 | B | MSAC | withdrawn |
| S5-234261 | Rel-18 CR TS 28.541 Add NetworkSliceController and NetworkSliceSubnetController IOCs to support asynchronous LCM operations | Samsung | 28.541 | 0930 | - | Rel-18 | B | eNETSLICE\_PRO | not pursued |
| S5-234423 | Rel-18 CR for TS28.541 several editorial Corrections | ZTE Corporation | 28.541 | 0931 | - | Rel-18 | F | TEI18 | revised |
| S5-234814 | Rel-18 CR for TS28.541 several editorial Corrections | ZTE Corporation | 28.541 | 0931 | 1 | Rel-18 | F | TEI18 | agreed |
| S5-233929 | Rel-18 CR TS 28.550 Enhance the streaming format of PM | Nokia, Nokia Shanghai Bell | 28.550 | 0078 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234711 | Rel-18 CR TS 28.550 Enhance the streaming format of PM | Nokia, Nokia Shanghai Bell | 28.550 | 0078 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-233930 | Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement | Nokia, Nokia Shanghai Bell | 28.552 | 0410 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234136 | Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement | Nokia, Nokia Shanghai Bell | 28.552 | 0410 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234138 | Rel-18 CR TS 28.552 Addition of “Available MIMO Layers Coverage Map per UE and per PRB” measurement | Nokia, Nokia Shanghai Bell | 28.552 | 0410 | 2 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | agreed |
| S5-233931 | Rel-18 CR TS 28.552 Addition of “Distribution of Scheduled PUSCH/PDSCH PRBs based on MIMO Layers Coverage Map” measurement | Nokia, Nokia Shanghai Bell | 28.552 | 0411 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234128 | Rel-18 CR TS 28.552 Addition of “Distribution of Scheduled PUSCH/PDSCH PRBs based on MIMO Layers Coverage Map” measurement | Nokia, Nokia Shanghai Bell | 28.552 | 0411 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | agreed |
| S5-233932 | Rel-18 CR TS 28.552 Add Reference for “DL PDCP buffered throughput per UE per DRB” | Nokia, Nokia Shanghai Bell | 28.552 | 0412 | - | Rel-18 | F | PM\_KPI\_5G\_Ph3 | revised |
| S5-234701 | Rel-18 CR TS 28.552 Add Reference for “DL PDCP buffered throughput per UE per DRB” | Nokia, Nokia Shanghai Bell | 28.552 | 0412 | 1 | Rel-18 | F | PM\_KPI\_5G\_Ph3 | agreed |
| S5-234086 | Rel-18 CR TS 28.552 Add MA PDU session creation measurements for ATSSS | China Telecomunication Corp.,Intel | 28.552 | 0413 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | withdrawn |
| S5-234088 | Rel-18 CR TS 28.552 Add MA PDU session creation measurements for ATSSS | China Telecomunication Corp.,Intel | 28.552 | 0414 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | agreed |
| S5-234089 | Rel-18 CR TS 28.552 Add Cross Link Interference related performance measurement | China Telecomunication Corp. | 28.552 | 0415 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234703 | Rel-18 CR TS 28.552 Add Cross Link Interference related performance measurement | China Telecomunication Corp. | 28.552 | 0415 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | agreed |
| S5-234120 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for SMF | Huawei | 28.552 | 0416 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234690 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for SMF | Huawei | 28.552 | 0416 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234121 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for UPF | Huawei | 28.552 | 0417 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234691 | Rel-18 CR 28.552 Add internal group ID to 5G LAN related performance measurements for UPF | Huawei | 28.552 | 0417 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234141 | Rel-18 CR 28.552 Add clause titles related to the performance measurements for NWDAF | China Telecommunication | 28.552 | 0418 | - | Rel-18 | B | MANWDAF | not pursued |
| S5-234142 | Add use case of time consumption of NWDAF providing analytcis service information | China Telecom | 28.552 | 0419 | - | Rel-18 | B | MANWDAF | revised |
| S5-234683 | Add use case of time consumption of NWDAF providing analytcis service information | China Telecom | 28.552 | 0419 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234143 | Rel-18 CR 28.552 Add time consumption of NWDAF providing analytcis service information | China Telecommunication | 28.552 | 0420 | - | Rel-18 | B | MANWDAF | revised |
| S5-234684 | Rel-18 CR 28.552 Add time consumption of NWDAF providing analytcis service information | China Telecommunication | 28.552 | 0420 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234144 | Rel-18 CR 28.552 Add use case of measurements related to the coordination between multiple NWDAFs | China Telecommunication | 28.552 | 0421 | - | Rel-18 | B | MANWDAF | agreed |
| S5-234145 | Rel-18 CR 28.552 Add measurements related to the coordination between multiple NWDAFs | China Telecommunication | 28.552 | 0422 | - | Rel-18 | B | MANWDAF | revised |
| S5-234679 | Rel-18 CR 28.552 Add measurements related to the coordination between multiple NWDAFs | China Telecommunication | 28.552 | 0422 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234146 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service provisioning | China Telecommunication | 28.552 | 0423 | - | Rel-18 | B | MANWDAF | revised |
| S5-234685 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service provisioning | China Telecommunication | 28.552 | 0423 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234147 | Rel-18 CR 28.552 Add measurements related to the NWDAF service provisioning | China Telecommunication | 28.552 | 0424 | - | Rel-18 | B | MANWDAF | revised |
| S5-234686 | Rel-18 CR 28.552 Add measurements related to the NWDAF service provisioning | China Telecommunication | 28.552 | 0424 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234148 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service failure | China Telecommunication | 28.552 | 0425 | - | Rel-18 | B | MANWDAF | revised |
| S5-234687 | Rel-18 CR 28.552 Add use case of measurements related to the NWDAF service failure | China Telecommunication | 28.552 | 0425 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234149 | Rel-18 CR 28.552 Add measurements related to the NWDAF service failure | China Telecommunication | 28.552 | 0426 | - | Rel-18 | B | MANWDAF | revised |
| S5-234688 | Rel-18 CR 28.552 Add measurements related to the NWDAF service failure | China Telecommunication | 28.552 | 0426 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234238 | Rel-18 CR 28.552 Add a use case for 5GLAN measurements | China Mobile | 28.552 | 0427 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234692 | Rel-18 CR 28.552 Add a use case for 5GLAN measurements | China Mobile | 28.552 | 0427 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234239 | Rel-18 CR 28.552 Update group-level N4 session measurements of SMF for 5GLAN | China Mobile | 28.552 | 0428 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234693 | Rel-18 CR 28.552 Update group-level N4 session measurements of SMF for 5GLAN | China Mobile | 28.552 | 0428 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234248 | Rel-18 CR 28.552 Update N19 related measurements of UPF for 5GLAN | China Mobile | 28.552 | 0429 | - | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234251 | Rel-18 CR 28.552 Update QoS flow related measurements of UPF for 5GLAN | China Mobile | 28.552 | 0430 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234694 | Rel-18 CR 28.552 Update QoS flow related measurements of UPF for 5GLAN | China Mobile | 28.552 | 0430 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234283 | Rel-18 CR 28 552 Add performance measurement related with number of notifications for NWDAF data collection | China Mobile Com. Corporation | 28.552 | 0431 | - | Rel-18 | B | MANWDAF | revised |
| S5-234680 | Rel-18 CR 28 552 Add performance measurement related with number of notifications for NWDAF data collection | China Mobile Com. Corporation | 28.552 | 0431 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234284 | Rel-18 CR 28 552 Add performance measurement related with number of subscriptions for NWDAF data collection | China Mobile Com. Corporation | 28.552 | 0432 | - | Rel-18 | B | MANWDAF | revised |
| S5-234681 | Rel-18 CR 28 552 Add performance measurement related with number of subscriptions for NWDAF data collection | China Mobile Com. Corporation | 28.552 | 0432 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234285 | Rel-18 CR 28 552 Add use case of the performance measurement for NWDAF data collection | China Mobile | 28.552 | 0433 | - | Rel-18 | B | MANWDAF | revised |
| S5-234682 | Rel-18 CR 28 552 Add use case of the performance measurement for NWDAF data collection | China Mobile | 28.552 | 0433 | 1 | Rel-18 | B | MANWDAF | agreed |
| S5-234367 | Rel-17 CR for TS28.552 Add packet measurements valid for split gNB deployment scenario | ZTE Corporation | 28.552 | 0434 | - | Rel-17 | B | ePM\_KPI\_5G | not pursued |
| S5-234369 | Rel-18 CR for TS28.552 Add packet measurements valid for split gNB deployment scenario | ZTE Corporation | 28.552 | 0435 | - | Rel-18 | A | ePM\_KPI\_5G | not pursued |
| S5-234416 | Rel-17 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity | Samsung Electronics Czech | 28.552 | 0436 | - | Rel-17 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234417 | Rel-18 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity | Samsung Electronics Czech | 28.552 | 0437 | - | Rel-18 | A | PM\_KPI\_5G\_Ph3 | revised |
| S5-234702 | Rel-18 CR TS 28.552 Adding new DRB measurements in case of Dual Connectivity | Samsung Electronics Czech | 28.552 | 0437 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | agreed |
| S5-234425 | New measurement “In-session activity time per RAT” | Apple | 28.552 | 0438 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234704 | New measurement “In-session activity time per RAT” | Apple | 28.552 | 0438 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234427 | New measurement “Successful RRC connection establishments per RAT” | Apple | 28.552 | 0439 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234706 | New measurement “Successful RRC connection establishments per RAT” | Apple | 28.552 | 0439 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234429 | New measurement “Number of RRC release” | Apple | 28.552 | 0440 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234432 | New measurement “DL PDCP SDU Data Volume per RAT” | Apple | 28.552 | 0441 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234709 | New measurement “DL PDCP SDU Data Volume per RAT” | Apple | 28.552 | 0441 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234256 | Rel-18 CR 28.554 Add a use case for 5G VN group measurements related KPIs | China Mobile | 28.554 | 0117 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234695 | Rel-18 CR 28.554 Add a use case for 5G VN group measurements related KPIs | China Mobile | 28.554 | 0117 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234260 | Rel-18 CR 28.554 Add Accessibility KPIs for 5G VN group measurements | China Mobile | 28.554 | 0118 | - | Rel-18 | B | 5GLAN\_Mgt | revised |
| S5-234696 | Rel-18 CR 28.554 Add Accessibility KPIs for 5G VN group measurements | China Mobile | 28.554 | 0118 | 1 | Rel-18 | B | 5GLAN\_Mgt | agreed |
| S5-234304 | Rel-15 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | 28.554 | 0119 | - | Rel-15 | F | TEI15 | agreed |
| S5-234305 | Rel-16 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | 28.554 | 0120 | - | Rel-16 | A | TEI15 | agreed |
| S5-234306 | Rel-17 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | 28.554 | 0121 | - | Rel-17 | A | TEI15 | agreed |
| S5-234307 | Rel-18 CR 28.554 Correction of accessibility and integrity KPI | Ericsson LM | 28.554 | 0122 | - | Rel-18 | A | TEI15 | agreed |
| S5-234426 | New KPI “NR and E-UTRAN in-session retention rate” | Apple | 28.554 | 0123 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234705 | New KPI “NR and E-UTRAN in-session retention rate” | Apple | 28.554 | 0123 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234428 | New KPI “RRC Retainability” | Apple | 28.554 | 0124 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234707 | New KPI “RRC Retainability” | Apple | 28.554 | 0124 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234430 | New KPI “NR and EUTRAN RRC retention rate” | Apple | 28.554 | 0125 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234708 | New KPI “NR and EUTRAN RRC retention rate” | Apple | 28.554 | 0125 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234433 | New KPI “NR and EUTRAN data volume retention rate” | Apple | 28.554 | 0126 | - | Rel-18 | B | PM\_KPI\_5G\_Ph3 | revised |
| S5-234710 | New KPI “NR and EUTRAN data volume retention rate” | Apple | 28.554 | 0126 | 1 | Rel-18 | B | PM\_KPI\_5G\_Ph3 | not pursued |
| S5-234170 | Add use case and requirements for NPN fault management | Huawei | 28.557 | 0002 | - | Rel-18 | B | OAM\_NPN\_Ph2 | revised |
| S5-234743 | Add use case and requirements for NPN fault management | Huawei | 28.557 | 0002 | 1 | Rel-18 | B | OAM\_NPN\_Ph2 | agreed |
| S5-234171 | Add use case and requirements for management of NPN service customer | Huawei | 28.557 | 0003 | - | Rel-18 | B | OAM\_NPN\_Ph2 | agreed |
| S5-234002 | Add missing supporting management capabilities for several control NRM Fragments | Huawei | 28.622 | 0221 | 1 | Rel-17 | F | MADCOL | not pursued |
| S5-234003 | Add missing supporting management capabilities for several control NRM Fragments | Huawei | 28.622 | 0222 | 1 | Rel-18 | A | MADCOL | not pursued |
| S5-233825 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | 28.622 | 0243 | - | Rel-17 | F | TEI17 | revised |
| S5-234748 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | 28.622 | 0243 | 1 | Rel-17 | F | TEI17 | not pursued |
| S5-233826 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | 28.622 | 0244 | - | Rel-18 | A | TEI17 | revised |
| S5-234749 | Clarify MnsRegistry handling | Ericsson Hungary Ltd | 28.622 | 0244 | 1 | Rel-18 | A | TEI17 | not pursued |
| S5-233884 | Rel-16 CR Correct inconsistency of Distinguish Name (3GPP, YANG) | Dell Technologies | 28.622 | 0245 | - | Rel-18 | F | eNRM | revised |
| S5-234038 | Rel-16 CR Correct inconsistency of Distinguish Name (3GPP, YANG) | Dell Technologies | 28.622 | 0245 | 1 | Rel-18 | F | eNRM | not pursued |
| S5-233919 | Rel-16 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions | Nokia, Nokia Shanghai Bell | 28.622 | 0246 | - | Rel-16 | F | TEI16 | not pursued |
| S5-233923 | Rel-17 CR TS 28.622 Correcting attributes properties for Excess Packet Delay Threshold | Nokia, Nokia Shanghai Bell | 28.622 | 0247 | - | Rel-17 | F | TEI17 | agreed |
| S5-233924 | Rel-17 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions | Nokia, Nokia Shangai Bell | 28.622 | 0248 | - | Rel-17 | A | TEI16 | not pursued |
| S5-233933 | Rel-18 CR TS 28.622 Adding the missing definition of the attribute excessPacketDelayThreshold | Nokia, Nokia Shanghai Bell | 28.622 | 0249 | - | Rel-18 | F | TEI18 | agreed |
| S5-233934 | Rel-18 CR TS 28.622 Correcting attributes properties for Excess Packet Delay Threshold | Nokia, Nokia Shanghai Bell | 28.622 | 0250 | - | Rel-18 | A | TEI17 | agreed |
| S5-233935 | Rel-18 CR TS 28.622 Correcting the TraceJob jobType names in attribute definitions | Nokia, Nokia Shanghai Bell | 28.622 | 0251 | - | Rel-18 | A | TEI16 | not pursued |
| S5-233973 | TS28.622 Rel16 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.622 | 0252 | - | Rel-16 | F | TEI16 | agreed |
| S5-233974 | TS28.622 Rel17 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.622 | 0253 | - | Rel-17 | A | TEI16 | agreed |
| S5-233975 | TS28.622 Rel18 clean up of incorrect use of multiplicity isOrdered isUnique and isNullable in attribute properties table | Nokia, Nokia Shanghai Bell | 28.622 | 0254 | - | Rel-18 | A | TEI16 | agreed |
| S5-233978 | TS28.622 Rel16 correction to missing Notification and Attribute constraints clauses | Nokia, Nokia Shanghai Bell | 28.622 | 0255 | - | Rel-16 | F | TEI16 | agreed |
| S5-233979 | TS28.622 Rel17 correction to missing Notification and Attribute constraints clauses | Nokia, Nokia Shanghai Bell | 28.622 | 0256 | - | Rel-17 | A | TEI16 | agreed |
| S5-233980 | TS28.622 Rel18 correction to missing Notification and Attribute constraints clauses | Nokia, Nokia Shanghai Bell | 28.622 | 0257 | - | Rel-18 | A | TEI16 | agreed |
| S5-234025 | Rel-15 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | 28.622 | 0258 | - | Rel-15 | F | TEI15, NETSLICE-5GNRM | agreed |
| S5-234026 | Rel-16 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | 28.622 | 0259 | - | Rel-16 | A | TEI15, NETSLICE-5GNRM | agreed |
| S5-234027 | Rel-17 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | 28.622 | 0260 | - | Rel-17 | A | TEI15, NETSLICE-5GNRM | agreed |
| S5-234028 | Rel-18 CR 28.622 Add clarification on TS version applicable for the IRP framework | Nokia, Nokia Shanghai Bell | 28.622 | 0261 | - | Rel-18 | A | TEI15, NETSLICE-5GNRM | agreed |
| S5-234030 | Rel-16 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | 28.622 | 0262 | - | Rel-16 | F | TEI16, adNRM | revised |
| S5-234762 | Rel-16 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | 28.622 | 0262 | 1 | Rel-16 | F | TEI16, adNRM | agreed |
| S5-234031 | Rel-17 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | 28.622 | 0263 | - | Rel-17 | A | TEI16, adNRM | revised |
| S5-234763 | Rel-17 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | 28.622 | 0263 | 1 | Rel-17 | A | TEI16, adNRM | agreed |
| S5-234032 | Rel-18 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | 28.622 | 0264 | - | Rel-18 | A | TEI16, adNRM | revised |
| S5-234764 | Rel-18 CR 28.622 Clarify how to subscribe to notifyThresholdCrossing | Nokia, Nokia Shanghai Bell | 28.622 | 0264 | 1 | Rel-18 | A | TEI16, adNRM | agreed |
| S5-234033 | Clarify AlarmList locking | Ericsson Hungary Ltd | 28.622 | 0265 | - | Rel-17 | F | TEI17 | revised |
| S5-234765 | Clarify AlarmList locking | Ericsson Hungary Ltd | 28.622 | 0265 | 1 | Rel-17 | F | TEI17 | not pursued |
| S5-234034 | Clarify AlarmList locking | Ericsson Hungary Ltd | 28.622 | 0266 | - | Rel-18 | A | TEI17 | revised |
| S5-234766 | Clarify AlarmList locking | Ericsson Hungary Ltd | 28.622 | 0266 | 1 | Rel-18 | A | TEI17 | not pursued |
| S5-234270 | Correction of attribute Syntax | Ericsson | 28.622 | 0267 | - | Rel-17 | F | TEI17 | agreed |
| S5-234272 | Correction of attribute syntax | Ericsson | 28.622 | 0268 | - | Rel-18 | A | TEI17 | agreed |
| S5-233896 | Add stage 3 for data type AvailabilityStatus | Nokia, Nokia Shanghai Bell | 28.623 | 0214 | 3 | Rel-18 | B | eNETSLICE\_PRO | agreed |
| S5-233827 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | 28.623 | 0242 | - | Rel-17 | F | TEI17 | revised |
| S5-234750 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | 28.623 | 0242 | 1 | Rel-17 | F | TEI17 | not pursued |
| S5-233828 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | 28.623 | 0243 | - | Rel-18 | A | TEI17 | revised |
| S5-234751 | Clarify MnsRegistry handling, YANG SS | Ericsson Hungary Ltd | 28.623 | 0243 | 1 | Rel-18 | A | TEI17 | not pursued |
| S5-233936 | Rel-18 CR TS 28.623 Correcting the min and max Items possible for fiveQIValue attribute in Stage 3 | Nokia, Nokia Shanghai Bell | 28.623 | 0244 | - | Rel-18 | F | TEI18 | revised |
| S5-234805 | Rel-18 CR TS 28.623 Correcting the min and max Items possible for fiveQIValue attribute in Stage 3 | Nokia, Nokia Shanghai Bell | 28.623 | 0244 | 1 | Rel-18 | F | TEI18 | agreed |
| S5-233976 | TS28.623 Rel17 correction to stage 3 implementation for MnSInfo and MnsRegistry | Nokia, Nokia Shanghai Bell | 28.623 | 0245 | - | Rel-17 | F | TEI17 | agreed |
| S5-233977 | TS28.623 Rel18 correction to stage 3 implementation for MnSInfo and MnsRegistry | Nokia, Nokia Shanghai Bell | 28.623 | 0246 | - | Rel-18 | A | TEI17 | agreed |
| S5-234035 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | 28.623 | 0247 | - | Rel-17 | F | TEI17 | revised |
| S5-234767 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | 28.623 | 0247 | 1 | Rel-17 | F | TEI17 | not pursued |
| S5-234036 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | 28.623 | 0248 | - | Rel-18 | A | TEI17 | revised |
| S5-234768 | Clarify AlarmList locking YANG | Ericsson Hungary Ltd | 28.623 | 0248 | 1 | Rel-18 | A | TEI17 | not pursued |
| S5-234070 | YANG Corrections | Ericsson Hungary Ltd | 28.623 | 0249 | - | Rel-17 | F | TEI17 | agreed |
| S5-234072 | YANG Corrections | Ericsson Hungary Ltd | 28.623 | 0250 | - | Rel-18 | F | TEI18 | agreed |
| S5-234075 | Rel-18 CR TS 28.623 separate yaml file for different control NRM fragment | Huawei | 28.623 | 0251 | - | Rel-18 | F | AdNRM\_ph2 | not pursued |
| S5-233882 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | 32.156 | 0052 | 2 | Rel-17 | F | adNRM | revised |
| S5-234752 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | 32.156 | 0052 | 3 | Rel-17 | F | adNRM | agreed |
| S5-233883 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | 32.156 | 0053 | 2 | Rel-18 | A | adNRM | revised |
| S5-234753 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | 32.156 | 0053 | 3 | Rel-18 | A | adNRM | agreed |
| S5-233881 | Clarifying multilevel attribute properties | Ericsson Hungary Ltd | 32.156 | 0054 | - | Rel-17 | F | TEI17 | withdrawn |
| S5-234303 | Move Attibute definitions to UML repertoire | Ericsson Hungary Ltd | 32.156 | 0055 | - | Rel-17 | F | TEI17 | revised |
| S5-234772 | Move Attibute definitions to UML repertoire | Ericsson Hungary Ltd | 32.156 | 0055 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234348 | Rel-18 CR 32.156 Move Attribute definitions to UML repertoire | Ericsson-LG Co., LTD | 32.156 | 0056 | - | Rel-18 | A | TEI17 | revised |
| S5-234773 | Rel-18 CR 32.156 Move Attribute definitions to UML repertoire | Ericsson-LG Co., LTD | 32.156 | 0056 | 1 | Rel-18 | A | TEI17 | agreed |
| S5-234004 | Rel-16 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | 32.158 | 0099 | - | Rel-16 | F | TEI16, REST\_SS | revised |
| S5-234754 | Rel-16 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | 32.158 | 0099 | 1 | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-234011 | Rel-17 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | 32.158 | 0100 | - | Rel-17 | A | TEI16, REST\_SS | revised |
| S5-234755 | Rel-17 CR 32.158 Clarify usage of filter query parameter | Nokia, Nokia Shanghai Bell | 32.158 | 0100 | 1 | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-234012 | Rel-16 CR 32.158 Correct JSON schema fragment for JSON Patch documents | Nokia, Nokia Shanghai Bell | 32.158 | 0101 | - | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-234013 | Rel-17 CR 32.158 Correct JSON schema fragment for JSON Patch documents | Nokia, Nokia Shanghai Bell | 32.158 | 0102 | - | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-234014 | Rel-16 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | 32.158 | 0103 | - | Rel-16 | F | TEI16, REST\_SS | revised |
| S5-234756 | Rel-16 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | 32.158 | 0103 | 1 | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-234015 | Rel-17 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | 32.158 | 0104 | - | Rel-17 | A | TEI16, REST\_SS | revised |
| S5-234757 | Rel-17 CR 32.158 Clarify usage of the attributes container for object selection | Nokia, Nokia Shanghai Bell | 32.158 | 0104 | 1 | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-234018 | Rel-16 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shanghai Bell | 32.158 | 0105 | - | Rel-16 | F | TEI16, REST\_SS | revised |
| S5-234758 | Rel-16 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shanghai Bell | 32.158 | 0105 | 1 | Rel-16 | F | TEI16, REST\_SS | agreed |
| S5-234021 | Rel-17 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shnaghai Bell | 32.158 | 0106 | - | Rel-17 | A | TEI16, REST\_SS | revised |
| S5-234759 | Rel-17 CR 32.158 Clarify usage of the attributes container for complete resource updates | Nokia, Nokia Shnaghai Bell | 32.158 | 0106 | 1 | Rel-17 | A | TEI16, REST\_SS | agreed |
| S5-233817 | Allow YANG anydata | Ericsson Hungary Ltd | 32.160 | 0036 | - | Rel-17 | F | TEI17 | agreed |
| S5-233818 | Allow YANG anydata | Ericsson Hungary Ltd | 32.160 | 0037 | - | Rel-18 | A | TEI17 | agreed |
| S5-234039 | Correction to template for NRM description related to Notifications | Nokia, Nokia Shanghai Bell | 32.160 | 0038 | - | Rel-16 | F | TEI16 | agreed |
| S5-234040 | Correction to template for NRM description related to Notifications | Nokia, Nokia Shanghai Bell | 32.160 | 0039 | - | Rel-17 | A | TEI16 | agreed |
| S5-234041 | Correction to template for NRM description related to Notifications | Nokia, Nokia Shanghai Bell | 32.160 | 0040 | - | Rel-18 | A | TEI16 | agreed |
| S5-234211 | Add the converged charging mapping | Huawei | 32.240 | 0457 | 1 | Rel-17 | F | TEI17 | revised |
| S5-234600 | Add the converged charging mapping | Huawei | 32.240 | 0457 | 2 | Rel-17 | F | TEI17 | agreed |
| S5-234286 | Add the converged charging mapping | Huawei | 32.240 | 0458 | 1 | Rel-18 | A | TEI18 | revised |
| S5-234601 | Add the converged charging mapping | Huawei | 32.240 | 0458 | 2 | Rel-18 | A | TEI17 | agreed |
| S5-234223 | An architecture for CHF distributed deployment | Huawei | 32.240 | 0459 | 1 | Rel-18 | C | DIST\_CH | merged |
| S5-234006 | Rel-18 CR TS 32.240 Deployment Models | Nokia, Nokia Shanghai Bell | 32.240 | 0461 | - | Rel-18 | B | DIST\_CH | revised |
| S5-234475 | Rel-18 CR TS 32.240 Deployment Models | Nokia, Nokia Shanghai Bell, Huawei | 32.240 | 0461 | 1 | Rel-18 | B | DIST\_CH | agreed |
| S5-234212 | Rel-18 CR 32.240 Add the converged charging mapping | Huawei | 32.240 | 0462 | - | Rel-18 | A | TEI18 | withdrawn |
| S5-234213 | Add the charging data transfer for the converged charging | Huawei | 32.240 | 0463 | - | Rel-17 | F | TEI17 | revised |
| S5-234602 | Add the charging data transfer for the converged charging | Huawei | 32.240 | 0463 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234214 | Add the charging data transfer for the converged charging | Huawei | 32.240 | 0464 | - | Rel-18 | A | TEI18 | revised |
| S5-234603 | Add the charging data transfer for the converged charging | Huawei | 32.240 | 0464 | 1 | Rel-18 | A | TEI17 | agreed |
| S5-234215 | Correction the description for the converged charging | Huawei | 32.240 | 0465 | - | Rel-17 | F | TEI17 | revised |
| S5-234604 | Correction the description for the converged charging | Huawei | 32.240 | 0465 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234216 | Correction the description for the converged charging | Huawei | 32.240 | 0466 | - | Rel-18 | A | TEI18 | revised |
| S5-234605 | Correction the description for the converged charging | Huawei | 32.240 | 0466 | 1 | Rel-18 | A | TEI17 | agreed |
| S5-234394 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.240 | 0467 | - | Rel-18 | B | DUMMY | revised |
| S5-234456 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.240 | 0467 | 1 | Rel-18 | B | DUMMY | agreed |
| S5-233986 | Update Roaming Profile in case of inter plmn N2 HO (Home Routed case) | Cisco Systems France | 32.255 | 0417 | - | Rel-18 | C | TEI18 | revised |
| S5-234090 | Update Roaming Charing Profile in case of I-SMF insertion or I-SMF Change (Home Routed case) | Cisco Systems France | 32.255 | 0417 | 1 | Rel-18 | F | TEI18 | revised |
| S5-234487 | Update SMF-CHF interaction step ordering for I-SMF insertion or change | Cisco Systems France | 32.255 | 0417 | 2 | Rel-17 | A | ETSUN | agreed |
| S5-234092 | Rel-18 CR 32.255 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | 32.255 | 0418 | - | Rel-18 | F | eNPN\_CH | revised |
| S5-234462 | Rel-18 CR 32.255 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | 32.255 | 0418 | 1 | Rel-18 | B | eNPN\_CH | agreed |
| S5-234315 | Rel-17 CR 32.255 Correction of missing inter and intra PLMN mobility | Ericsson LM | 32.255 | 0419 | - | Rel-17 | F | TEI17 | revised |
| S5-234612 | Rel-17 CR 32.255 Correction of missing inter and intra PLMN mobility | Ericsson LM, Cisco Systems | 32.255 | 0419 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234316 | Rel-17 CR 32.255 Correction of inter PLMN without Charging Identifier as string | Ericsson LM | 32.255 | 0420 | - | Rel-17 | F | TEI17 | revised |
| S5-234613 | Rel-17 CR 32.255 Correction of inter PLMN without Charging Identifier as string | Ericsson LM | 32.255 | 0420 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234317 | Rel-17 CR 32.255 Correction of interworking with EPC and Charging Identifier as string | Ericsson LM | 32.255 | 0421 | - | Rel-17 | F | TEI17 | revised |
| S5-234614 | Rel-17 CR 32.255 Correction of interworking with EPC and Charging Identifier as string | Ericsson LM | 32.255 | 0421 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234395 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.255 | 0422 | - | Rel-18 | B | DUMMY | revised |
| S5-234457 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.255 | 0422 | 1 | Rel-18 | B | DUMMY | agreed |
| S5-234488 | Update SMF-CHF interaction step ordering for I-SMF insertion or change | Cisco | 32.255 | 0423 | - | Rel-16 | F | ETSUN | agreed |
| S5-234095 | Rel-18 CR 32.256 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | 32.256 | 0010 | - | Rel-18 | F | eNPN\_CH | revised |
| S5-234465 | Rel-18 CR 32.256 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | 32.256 | 0010 | 1 | Rel-18 | B | eNPN\_CH | agreed |
| S5-234396 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.256 | 0011 | - | Rel-18 | B | DUMMY | revised |
| S5-234458 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.256 | 0011 | 1 | Rel-18 | B | DUMMY | agreed |
| S5-234209 | Correct the message flow for SCUR blocking mode | Huawei | 32.290 | 0195 | - | Rel-17 | F | TEI17 | agreed |
| S5-234210 | Rel-18 CR 32.290 Correct the SCUR blocking-mode message flow | Huawei | 32.290 | 0196 | - | Rel-18 | A | TEI18 | revised |
| S5-234599 | Rel-18 CR 32.290 Correct the SCUR blocking-mode message flow | Huawei | 32.290 | 0196 | 1 | Rel-18 | A | TEI17 | agreed |
| S5-234314 | Rel-18 CR 32.290 Correction of unit type usage for converged charging | Ericsson LM | 32.290 | 0197 | - | Rel-18 | F | TEI18 | not pursued |
| S5-234608 | Rel-17 CR 32.290 Correction of requested units | Ericsson LM | 32.290 | 0198 | - | Rel-17 | F | TEI17 | agreed |
| S5-234609 | Rel-18 CR 32.290 Correction of requested units | Ericsson LM | 32.290 | 0199 | - | Rel-18 | A | TEI17 | agreed |
| S5-234309 | Rel-17 CR 32.291 Correction of requested units | Ericsson LM | 32.291 | 0470 | 1 | Rel-17 | F | TEI17 | revised |
| S5-234606 | Rel-17 CR 32.291 Correction of requested units | Ericsson LM | 32.291 | 0470 | 2 | Rel-17 | F | TEI17 | agreed |
| S5-234310 | Rel-18 CR 32.291 Correction of requested units | Ericsson LM | 32.291 | 0471 | 1 | Rel-18 | A | TEI17 | revised |
| S5-234607 | Rel-18 CR 32.291 Correction of requested units | Ericsson LM | 32.291 | 0471 | 2 | Rel-18 | A | TEI17 | agreed |
| S5-234093 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | 32.291 | 0473 | - | Rel-18 | F | eNPN\_CH | revised |
| S5-234463 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | 32.291 | 0473 | 1 | Rel-18 | B | eNPN\_CH | agreed |
| S5-234096 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | 32.291 | 0474 | - | Rel-18 | F | eNPN\_CH | revised |
| S5-234466 | Rel-18 CR 32.291 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | 32.291 | 0474 | 1 | Rel-18 | B | eNPN\_CH | agreed |
| S5-234220 | Update OpenAPI version | Huawei | 32.291 | 0475 | - | Rel-17 | F | TEI17 | revised |
| S5-234617 | Update OpenAPI version | Huawei | 32.291 | 0475 | 1 | Rel-17 | F | TEI17 | email agreement |
| S5-234221 | Update OpenAPI version | Huawei | 32.291 | 0476 | - | Rel-18 | F | TEI18 | revised |
| S5-234618 | Update OpenAPI version | Huawei | 32.291 | 0476 | 1 | Rel-18 | A | TEI17 | email agreement |
| S5-234311 | Rel-16 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | 32.291 | 0477 | - | Rel-16 | F | TEI16 | not pursued |
| S5-234312 | Rel-17 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | 32.291 | 0478 | - | Rel-17 | A | TEI16 | revised |
| S5-234610 | Rel-17 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | 32.291 | 0478 | 1 | Rel-17 | F | TEI17, 5GS\_Ph1-DCH | agreed |
| S5-234313 | Rel-18 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | 32.291 | 0479 | - | Rel-18 | A | TEI16 | revised |
| S5-234611 | Rel-18 CR 32.291 Correction of QFIContainerInformation | Ericsson LM | 32.291 | 0479 | 1 | Rel-18 | A | TEI17, 5GS\_Ph1-DCH | agreed |
| S5-234397 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.291 | 0480 | - | Rel-18 | B | DUMMY | revised |
| S5-234459 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.291 | 0480 | 1 | Rel-18 | B | DUMMY | revised |
| S5-234830 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.291 | 0480 | 2 | Rel-18 | B | DUMMY | agreed |
| S5-234287 | Addition of the NF Triggers in the CHF CDR | Huawei | 32.298 | 0935 | 1 | Rel-17 | F | TEI17 | not pursued |
| S5-234288 | Rel-18 CR 32.298 Addition of the NF Triggers in the CHF CDR | Huawei | 32.298 | 0936 | 1 | Rel-18 | A | TEI18 | not pursued |
| S5-234094 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | 32.298 | 0938 | - | Rel-18 | F | eNPN\_CH | revised |
| S5-234464 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G data connectivity charging | China Mobile | 32.298 | 0938 | 1 | Rel-18 | B | eNPN\_CH | agreed |
| S5-234097 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | 32.298 | 0939 | - | Rel-18 | F | eNPN\_CH | revised |
| S5-234467 | Rel-18 CR 32.298 Add Identifier of SNPN for 5G connection and mobility charging | China Mobile | 32.298 | 0939 | 1 | Rel-18 | B | eNPN\_CH | agreed |
| S5-234218 | Rel-17 CR 32.298 Addition of the NF Triggers in the CHF CDR | Huawei | 32.298 | 0940 | - | Rel-1S5-2342197 | F | TEI17 | withdrawn |
|  | Rel-18 CR 32.298 Addition of the NF Triggers in the CHF CDR | Huawei | 32.298 | 0941 | - | Rel-18 | A | TEI18 | withdrawn |
| S5-234318 | Rel-16 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | 32.298 | 0942 | - | Rel-16 | F | TEI16 | not pursued |
| S5-234319 | Rel-17 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | 32.298 | 0943 | - | Rel-17 | A | TEI16 | revised |
| S5-234615 | Rel-17 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | 32.298 | 0943 | 1 | Rel-17 | F | TEI17 | agreed |
| S5-234320 | Rel-18 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | 32.298 | 0944 | - | Rel-18 | A | TEI16 | revised |
| S5-234616 | Rel-18 CR 32.298 Correction of TS 22.142 reference in ASN.1 | Ericsson LM | 32.298 | 0944 | 1 | Rel-18 | A | TEI17 | agreed |
| S5-234398 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.298 | 0945 | - | Rel-18 | B | DUMMY | revised |
| S5-234460 | Slice-aware charging for Roaming partners | MATRIXX Software | 32.298 | 0945 | 1 | Rel-18 | B | DUMMY | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S5-233831 | C1-232650 | Reply LS on 3GPP work on Energy Efficiency | C1-232650 | noted | (none) |
| S5-233832 | C3-231470 | Reply LS on 3GPP work on Energy Efficiency | C3-231470 | noted | (none) |
| S5-233833 |  | Withdrawal of ETSI GS NFV-MAN 001 | ETSI ISG NFV | noted | (none) |
| S5-233834 | R2-2304401 | Reply LS on Approval of eQoE CRs for NR | R2-2304401 | postponed | (none) |
| S5-233835 | R3-232047 | LS on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload | R3-232047 | postponed | (none) |
| S5-233836 | R3-232051 | Reply LS on introduction of a new attribute ""Only Resource Coordination"" to support source coordination between LTE and NR SA | R3-232051 | replied to | S5-234839 |
| S5-233837 | R3-232070 | LS on MDT measurements collection in MR-DC | R3-232070 | postponed | (none) |
| S5-233838 | R3-232079 | LS on collecting QoE measurements per MBS service area and MBS session ID | R3-232079 | postponed | (none) |
| S5-233839 | S2-2304067 | LS for improved KPIs involving end-to-end data volume transfer time analytics | S2-2304067 | postponed | (none) |
| S5-233840 | S2-2305426 | LS on charging aspects of AI/ML traffic | S2-2305426 | postponed | (none) |
| S5-233841 | S2-2306095 | LS on OAM input data for QoS Sustainability Analytics | S2-2306095 | postponed | (none) |
| S5-233842 |  | LS on initiation of new work item ITU-T Y.REOUPF: ""Resource efficiency optimization for managing user plane function in IMT-2020 networks and beyond"" | ITU-T SG13 | noted | (none) |
| S5-233843 |  | LS on Y.3159 ""Framework for classifying network slice level in future networks including IMT-2020"" | ITU-T SG13 | replied to | S5-234651 |
| S5-233844 |  | LS on Information and request of advice on the SG13 plan to initiate a new work item on ""Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective, | ITU-T SG13 | replied to | S5-234547 |
| S5-233845 |  | ZSM work on AI enablers and intent-driven autonomous networks | ETSI ZSM | postponed | (none) |
| S5-233846 | C4-225411 | Reply LS on Enhancement on Charging Identifier Uniqueness Mechanism | C4-225411 | replied to | S5-234452 |
| S5-233847 |  | 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) |
| S5-233848 | S3-231400 | Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S3-231400 | noted | (none) |
| S5-233849 | R3-225253 | LS on NCR Solutions | R3-225253 | postponed | (none) |
| S5-233850 |  | LS on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 | O-RAN | replied to | S5-234824 |
| S5-233851 |  | 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 | noted | (none) |
| S5-233852 |  | LS to SA5 on E2E Network Slicing Requirements | GSMA | noted | (none) |
| S5-233853 |  | LS on Slice based (wholesale) differentiation and charging in roaming | GSMA | replied to | S5-234453 |
| S5-234338 |  | LS on initiation of draft new Recommendation ITU-T Y.IMT2020-MEVE-req-frame “Future networks including IMT-2020: requirements and framework for measurement of effectiveness and value evaluation of autonomous networks” | ITU-T SG13 | postponed | (none) |
| S5-234441 |  | Information on ETSI EE monitoring standard and support from 3GPP SA5 | ETSI TC EE | replied to | S5-234594 |
| S5-234442 |  | LS on ITU FG AN Build-a-thon 2023 | ITU-T | noted | (none) |
| S5-234493 | O-RAN\_WG9\_S-2023005 | LS on O-RAN - Transport Network Slicing Enhancement IM/DM TS28.541 (O-RAN\_WG9\_S-2023005; to: SA5; cc: SA, RAN; contact: Telefonica) | O-RAN WG9 | replied to | S5-234824 |
| S5-234506 | ETSI\_ISG\_NFV(23)000099 | LS about status of FEAT24 “VNF-OAM” development by ETSI NFV (ETSI\_ISG\_NFV(23)000099; to: SA5; cc: -; contact: ZTE) | ETSI ISG NFV | postponed | (none) |
| S5-234663 | ETSI ISG ZSM(23)000104r1 | Reply to S5-233276 and S5-233277 on enhanced intent driven management services for mobile networks (ETSI ISG ZSM(23)000104r1; to: SA5; cc: -; contact: Nokia) | ETSI ISG ZSM | replied to | S5-234697 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S5-234452 | Reply LS to C4-225411 = S5-233195 on Enhancement on Charging Identifier Uniqueness Mechanism (to: CT4; cc: CT3; contact: Ericsson) | CT4 | CT3 | C4-225411 = S5-233195 |
| S5-234453 | Reply LS to GSMA LS S5-233853 on Slice based (wholesale) differentiation and charging in roaming (to: GSMA NG ENSWI; cc: GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2; contact: MATRIXX Software) | GSMA NG ENSWI | GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2 | S5-233853 |
| S5-234547 | Reply LS to ITU-T SG13 LS S5-233844 on Information and request of advice on the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective" (to: ITU-T Q20/13; cc: SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN; contact: Huawei) | ITU-T Q20/13 | SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN | S5-233844 |
| S5-234594 | Reply LS to ETSI TC EE(23)000005 = S5-234441 on Information on ETSI EE monitoring standard and support from 3GPP SA5 (to: ETSI TC EE WG2; cc: ITU-T SG5 Q6, NGMN Green Future Networks; contact: Huawei) | ETSI TC EE | ITU-T SG5 Q6, NGMN Green Future Networks | ETSI TC EE(23)000005 = S5-23444 |
| S5-234651 | Reply LS to ITU-T SG13-LS80 = S5-233843 on Y.3159 "Framework for classifying network slice level in future networks includin"g IMT-2020" (to: ITU-T SG13/Q21; cc: SA2, GSMA; contact: BT) | ITU-T SG13/Q21 | SA2, GSMA | ITU-T SG13-LS80 = S5-233843 |
| S5-234697 | Reply to ETSI ISG ZSM(23)000104r1 = S5-234663 on enhanced intent driven management services for mobile networks (to: ETSI ISG ZSM; cc: -, contact: Huawei) | ETSI ISG ZSM | - | S5-234663 |
| S5-234776 | LS on Security for AI ML trustworthiness management (to: SA3; cc: -; contact: Nokia) | SA3 | - | - |
| S5-234824 | Reply LS to O-RAN\_WG9\_S-2022003 =S5-233850 and O-RAN\_WG9\_S-2023005 = S5-234493 on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 (to: cc: SA, SA3, RAN; contact: Ericsson) | O-RAN WG9 | SA, SA3, RAN | S5-233850, S5-234493 |
| S5-234839 | Reply LS to R3-232051 = S5-233836 on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA (to:RAN3; cc: -; contact: China Telecom) | RAN3 | - | R3-232051 = S5-233836 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S5-234498 | Revised SID on Management of TraceMDT Phase 2 | Nokia, Nokia Shanghai Bell | SID revised |
| S5-234800 | Revised SID: Study on Basic SBMA enabler enhancements | Nokia | SID revised |
| S5-234455 | New WID on Charging enhancement for Network Slice based wholesale in roaming | MATRIXX Software | WID new |
| S5-234501 | New Rel-18 WID on Management Aspect of 5G Network Sharing Phase2 | China Unicom, Ericsson, Huawei, ZTE, CMCC, China Telecom, AsiaInfo | WID new |
| S5-234806 | New Rel-18 WID on Management Aspects of URLLC | China Unicom | WID new |
| S5-234825 | New Work Item on Network and Service Operations for Energy Utilities | Samsung, EUTC, EDF, BMWK, Deutsche Telekom, Huawei, Ericsson, NOVAMINT, Vodafone, China Mobile | WID new |
| S5-233944 | Revised WID on Management of Trace/MDT phase 2 | Nokia, Nokia Shanghai Bell | WID revised |
| S5-234499 | Revised WID on Service Based Management Architecture(SBMA) Phase 2 | Nokia, Nokia Shanghai Bell | WID revised |
| S5-234500 | Updated WID on enhanced Edge Computing Management | Samsung, Huawei | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S5-234009 | 28.840 | 0.3.0 | TR 28.840 v0.3.0 on Study on CHF segmentation |
| S5-234444 | 28.203 | 0.3.0 | TS 28.203 v0.3.0 on Charging management; Network slice admission control charging in the 5G System (5GS) |
| S5-234445 | 28.204 | 0.2.0 | TS 28.204 v0.2.0 on Charging management; Network slice-specific authentication and authorization charging in the 5G System (5GS) |
| S5-234446 | 28.826 | 1.5.0 | TR 28.826 v1.5.0 on Study on Nchf charging services phase 2 improvements and optimizations |
| S5-234447 | 28.827 | 1.9.0 | TR 28.827 v1.9.0 on Study on 5G charging for additional roaming scenarios and actors |
| S5-234448 | 28.839 | 0.7.0 | TR 28.839 v0.7.0 on Study on time sensitive networking charging |
| S5-234449 | 28.843 | 0.3.0 | TR 28.843 v0.3.0 on Study on structure of charging for verticals |
| S5-234450 | 28.844 | 0.3.0 | TR 28.844 v0.3.0 on Study on charging aspects of satellite in the 5G System (5GS) |
| S5-234717 | 28.317 | 0.4.0 | TS 28.317 v0.4.0 on Management and orchestration;Self-configuration of Radio Access Network Entities (RAN NEs) |
| S5-234718 | 28.824 | 0.12.0 | TR 28.824 v0.12.0 on Study on on network slice management capability exposure |
| S5-234719 | 28.829 | 1.2.0 | TR 28.829 v1.2.0 on Study on network and service operations for energy utilities |
| S5-234721 | 28.831 | 0.8.0 | TR 28.831 v0.8.0 on Study on basic Service-Based Management Architecture (SBMA) enabler enhancements |
| S5-234722 | 28.832 | 0.7.0 | TR 28.832 v0.7.0 on Study on management aspects of Ultra-Reliable and Low Latency Communication (URLLC) |
| S5-234723 | 28.835 | 0.7.0 | TR 28.835 v0.7.0 on Study on management aspects of 5G Multiple Operator Core Network (MOCN) network sharing phase2 |
| S5-234724 | 28.836 | 0.6.0 | TR 28.836 v0.6.0 on Study on intent-driven management for network slicing |
| S5-234725 | 28.837 | 0.8.0 | TR 28.837 v0.8.0 on Study on management of trace/ Minimization of Drive Tests (MDT) phase 2 |
| S5-234726 | 28.841 | 0.6.0 | TR 28.841 v0.6.0 on Study on management aspects of IoT NTN enhancements |
| S5-234727 | 28.842 | 0.4.0 | TR 28.842 v0.4.0 on Study on data management phase 2 |
| S5-234728 | 28.863 | 0.7.0 | TR 28.863 v0.7.0 on Study on Key Quality Indicators (KQIs) for 5G service experience |
| S5-234729 | 28.865 | 0.5.0 | TR 28.865 v0.5.0 on Study on Deterministic Communication Service Assurance (DCSA) |
| S5-234730 | 28.903 | 0.7.0 | TR 28.903 v0.7.0 on Study on alignment with ETSI Mobile Edge Computing (MEC) for Edge computing management |
| S5-234731 | 28.909 | 0.3.0 | TR 28.909 v0.3.0 on Study on evaluation of autonomous network levels |
| S5-234732 | 28.910 | 0.6.0 | TR 28.910 v0.6.0 on Study on enhancement of autonomous network levels |
| S5-234733 | 28.913 | 0.7.0 | TR 28.913 v0.7.0 on Study on new aspects of EE for 5G networks phase 2 |
| S5-234734 | 28.925 | 0.11.0 | TR 28.925 v0.11.0 on Study on enhancement of service based management architecture |

## Annex F: List of participants

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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| Mr. | Probasco | Scott | Nokia | Nokia Austria | |
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| Mr. | Salmon | Michael | Verizon UK Ltd | Verizon Switzerland AG | |
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| Ms. | Shi | Xiaonan | China Mobile Com. Corporation | China Mobile (Suzhou) Software | |
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| Mr. | Xu | Ruiyue | Huawei Tech.(UK) Co.. Ltd | HiSilicon Technologies Co. Ltd | |
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| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | Intel Korea, Ltd. | |
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| Mr. | You | Shilin | ZTE Corporation | Sanechips | |
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| Mr. | ZHU | ZHENGYUAN | Pengcheng laboratory | Pengcheng laboratory | |
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| Mr. | Zwingmann | Holger | umlaut | umlaut | |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA5#150 | 2023-08-21 | 2023-08-25 | Goteborg | SE | S5-150 |
| SA5#151 | 2023-10-09 | 2023-10-13 | Xiamen city | CN | S5-151 |
| SA5#152 | 2023-11-13 | 2023-11-17 | Chicago | US | S5-152 |
| SA5#153 | 2024-01-29 | 2024-02-02 | TBD |  | S5-153 |
| SA5#154 | 2024-04-15 | 2024-04-19 | China (TBC) | 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 |