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

**DRAFT Meeting Report  
for  
TSG SA WGA  
meeting: 157**

**Hyderabad, India, 14/10/2024 to 18/10/2024**

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## 1 Opening of the meeting

## 2 Approval of the agenda

**S5-245200 Agenda**

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

**Discussion:**

The SA5 Chair opened the SA5#157 meeting.

TATA welcomed the Delegates on behalf of the hosts.

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

## 3 IPR and legal declaration

**S5-245201 IPR and legal declaration**

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

**Discussion:**

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

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

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

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

"The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chair and Vice-Chairs 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/SWG 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

**S5-245202 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

**S5-245203 Time Plan for SA5 Plenary and OAM sessions**

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

**Discussion:**

kept open

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

**S5-245204 agenda\_with\_Tdocs\_sequence\_Plenary&OAM**

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

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

**S5-245205 SA5 working procedures**

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

**Discussion:**

delegates need to request new tdocs numbers from MCC during the main track session to keep the Chair notes synchronized, i.e. no new tdoc numbers are allocated outside the main session.

will be merged with S5-245228

Keep open

**Decision:** The document was **revised to S5-245972**.

**S5-245972 SA5 working procedures**

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

(Replaces S5-245205)

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

**S5-245206 SA5 Meeting facility requirements**

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

**Discussion:**

add requirements for meeting room arrangements

**Decision:** The document was **revised to S5-245973**.

**S5-245973 SA5 Meeting facility requirements**

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

(Replaces S5-245206)

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

**S5-245208 Post meeting email approval status**

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

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

**S5-245211 Plenary and OAM Chair notes and conclusions**

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

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

**S5-245218 Latest SA5 Rel-19 WIs-SIs**

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

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

**S5-245219 Rel-19 SA5 work planning**

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

**Decision:** The document was **revised to S5-245974**.

**S5-245974 Rel-19 SA5 work planning**

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

(Replaces S5-245219)

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

**S5-245220 Rel-19 SA5 work plan TU table**

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

**Discussion:**

rev 1 was presented on Mon., based on the SA Chair's request.

SA5 Chair: Can decide for the Origami resentation on Fri.

xx: question about OAM starting at the same time as SA2

Agreement before next SA plenary

keep open

**Decision:** The document was **revised to S5-246294**.

**S5-246294 Rel-19 SA5 work plan TU table**

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

(Replaces S5-245220)

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

**S5-245228 SA5 working procedures**

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

**Abstract:**

stage 2 CR info added

**Discussion:**

Nokia suggested to pilot this

merged into 5978

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

**S5-245342 Revision of Terms of Reference (ToR) for 3GPP TSG SA WG5 (SA5)**

*Type: ToR For: Agreement  
 Source: MATRIXX Software, Amdocs*

**Discussion:**

added charging SWG info

move the 'charging information'

**Decision:** The document was **revised to S5-245975**.

**S5-245975 Revision of Terms of Reference (ToR) for 3GPP TSG SA WG5 (SA5)**

*Type: ToR For: Agreement  
 Source: MATRIXX Software, Amdocs*

(Replaces S5-245342)

**Discussion:**

keep open

d1

Shall be submitted to next SA#106 meeting!!

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

**S5-245494 Rel-20 SA5 work planning**

*Type: Work Plan For: (not specified)  
 Source: WG Chair*

**Discussion:**

keep open

no update in this meeting

noted in closing plenary?

How to improve the relation with SA1

Planned Dec. 5. or 12. for the Origami presentation SA5.

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

**S5-245495 Rel-20 Consideration on capturing management requirements**

*Type: Work Plan For: (not specified)  
 Source: WG Chair*

**Discussion:**

keep open

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

### 5.2 Technical issues at SA5 level

**S5-245233 User Guide - Using Forge for SA5**

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

**Abstract:**

Candidate for block noting

**Discussion:**

put link in the wiki!

update 1-2x year; in guideline folder.

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

### 5.3 Liaison statements at SA5 level

**S5-245373 LS on AIML data collection**

*Type: LS in For: Information  
 Original outgoing LS: RP-242389, to SA, SA2, SA3, SA5, cc RAN1, RAN2, RAN3  
 Source: RAN*

**Discussion:**

presented by usa lady?

2 different opinions from Huawei & ZTE.

OEM & CH discussion.

HW needs more time.

DT prefers option 2.

ZTE: RAN only asked to discuss opt. 3

SA5 Chair: reply is needed.

-> replied in 6299

**Decision:** The document was **replied to in** .

**S5-245377 Reply LS on SA2 questions on the predictive slice modification in Inter-PLMN based slice service continuity**

*Type: LS in For: Information  
 Original outgoing LS: S6-243352, to SA2, cc CT3, SA5  
 Source: SA6*

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

**S5-245378 LS on maintaining specification consistency between GSMA and 3GPP on 5G roaming over roaming intermediaries.**

*Type: LS in For: Information  
 Original outgoing LS: SP-241405, to GSMA 5GMRR, GSMA NRG, GSMA NG, cc SA1, SA2, SA3, SA5, CT4  
 Source: SA*

**Discussion:**

Samsung volunteered to draft reply.

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

**S5-245379 LS on API availability support (SA5#156)**

*Type: LS in For: Action  
 Original outgoing LS: S6a240334, to SA5, cc -  
 Source: SA6*

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

**S5-245976 reply to LS on API availability support (SA5#156)**

*Type: LS out For: Approval  
 to SA6  
 Source: SA5*

**Discussion:**

Ericsson is in favour of sending.

Nokia needed more time. Next meeting.

Samsung: was postponed already at the last meeting.

**Decision:** The document was **revised to S5-246295**.

**S5-246295 reply to LS on API availability support (SA5#156)**

*Type: LS out For: Approval  
 to SA6  
 Source: SA5*

(Replaces S5-245976)

**Discussion:**

for email approval

**Decision:** The document was **for email approval**.

**S5-245380 LS response to 3GPP\_Reservation of Edge Resources and Correlation information for API volume-based charging (SA5#156)**

*Type: LS in For: Information  
 Original outgoing LS: -, to SA5, cc SA, GSMA OPG  
 Source: GSMA OPG Operator Platform API Group*

**Discussion:**

SA5 Chair: need to reply. Involve the leaders.

**Decision:** The document was **revised**.

**S5-245977 LS response to 3GPP\_Reservation of Edge Resources and Correlation information for API volume-based charging (SA5#156)**

*Type: LS out For: Information  
 to GSMA OPG Operator Platform API Group, cc GSMA OPG, 3GPP SA2, 3GPP SA6, 3GPP SA  
 Source: SA5*

**Discussion:**

Metrixx, Huawei

d4

for email approval

**Decision:** The document was **for email approval**.

### 5.4 SA5 meeting calendar

**S5-245207 SA5 meeting calendar**

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

**Decision:** The document was **revised to S5-245978**.

**S5-245978 SA5 meeting calendar**

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

(Replaces S5-245207)

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

## 6 OAM&P

### 6.1 OAM&P Plenary

**S5-245209 OAM action list**

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

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

**S5-245210 OAM Exec Report**

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

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

**S5-245212 Collection of useful endorsed documents in OAM**

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

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

**S5-245213 Collection of external communication documents in OAM**

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

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

**S5-245214 Living document for stage 2-3 alignment**

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

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

**S5-245222 Reply LS on AIML data collection**

*Type: LS out For: Approval  
 to RAN, cc RAN1, RAN2, RAN3, SA3, SA4  
 Source: ZTE Corporation*

**Discussion:**

discussions between Samsung, Ericsson, etc. about how to reply.

Samsung: we should not teach RAN how this works.

merged into S5-245979

Content will be included in 5980.

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

**S5-245370 Reply LS on the Realization of Network Slices for 5G Networks Using Current IP/MPLS Technologies**

*Type: LS in For: Information  
 Original outgoing LS: R3-244785, to IETF Traffic Engineering Architecture and Signaling Working Group (teas), cc SA2, SA3, SA5  
 Source: RAN3*

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

**S5-245371 LS on MBS Communication Service Type**

*Type: LS in For: Information  
 Original outgoing LS: R3-244789, to SA4, cc SA5, RAN2  
 Source: RAN3*

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

**S5-245372 LS on SON for Network Slicing and enhanced area scope**

*Type: LS in For: Information  
 Original outgoing LS: R3-244823, to SA5, cc RAN2  
 Source: RAN3*

**Discussion:**

Ericsson will reply at the next meeting

This LS needs to be presented again at the next meeting!!

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

**S5-245374 LS Reply on "A Realization of Network Slices for 5G Networks Using Current IP/MPLS Technologies"**

*Type: LS in For: Information  
 Original outgoing LS: S2-2408691, to IETF Traffic Engineering Architecture and Signaling Working Group (teas), cc SA3, SA5, RAN3  
 Source: SA2*

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

**S5-245376 LS on Masking of cryptographic keys in UE trace file from 3GPP core network entities**

*Type: LS in For: Information  
 Original outgoing LS: S3-243696, to SA5, cc -  
 Source: SA3*

**Discussion:**

related CRs 5256-65

This LS has to be presented again at the next meeting!!

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

**S5-245381 LS on Establishment of new Focus Group on Artificial Intelligence Native for Telecommunication Networks (FG-AINN)**

*Type: LS in For: Information  
 Original outgoing LS: -, to TSAG, ITU-T SG2, SG3, SG5, SG9, SG11, SG12, SG15, SG16, SG17, SG20, 3GPP, ETSI, cc -  
 Source: ITU-T SG13*

**Discussion:**

keep open (need Hassan)

Has to be presented again at the next meeting!!

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

**S5-245382 LS on consent of draft new Recommendation ITU-T Y.3144 (ex.Y.IMT2020-DCN) “Future networks including IMT-2020 – Requirements and functional architecture of distributed core network”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG2, ITU-T SG11, ITU-T SG17, ITU-R WP 5D, SA1, SA2, SA5, cc -  
 Source: ITU-T SG13*

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

**S5-245383 LS on consent of draft new Recommendation ITU-T Y.3187 (ex.Y.ML-IMT2020-MLFO) “Architectural framework for Machine Learning Function Orchestrator in future networks including IMT-2020”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG2, ITU-T SG11, ITU-T SG17, ISO/IEC JTC 1 SC29, ISO/IEC JTC1 SC42, SA1, SA5, ETSI ENI, cc -  
 Source: ITU-T SG13*

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

**S5-245384 LS on initiation of new work item ITU-T Y.NSF “Requirements and framework of network slicing federation in IMT-2020 networks and beyond”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG2, ITU-T SG11, SA2, SA5, cc -  
 Source: ITU-T SG13*

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

**S5-245385 LS on initiation of two new Recommendations ITU-T Y.NGNe-cp\_mobility: “Mobility management and control framework in NGN evolution control plane” and ITU-T Y.NGNe-cp\_na: “Network attachment control framework in NGN evolution control plane”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG11, RAN3, SA5, IETF CCAMP, IETF OPSAREA, ITU-R, cc -  
 Source: ITU-T SG13*

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

**S5-245386 LS/r on ongoing work on Network Digital Twin (reply to ETSI ISG ZSM-(24)000087-LS10)**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG11, ETSI ZSM, SA5, cc -  
 Source: ITU-T SG13*

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

**S5-245387 LS on the consent of draft new Recommendation ITU-T Y.3092 (ex.Y.DTNMO) “Digital twin for management and orchestration in IMT-2020 networks and beyond”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG2, SG11, SA5, ETSI ZSM, TM Forum, cc -  
 Source: ITU-T SG13*

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

**S5-245388 LS on consent of draft new Recommendation ITU-T Y.3163 (ex.Y.NAEC) “Network accelerating for edge computing in IMT-2020 networks and beyond”**

*Type: LS in For: Information  
 Original outgoing LS: -, to ITU-T SG2, SG11, ETSI ISG NFV, SA2, SA5, SA6, cc -  
 Source: ITU-T SG13*

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

**S5-245424 LS to ETSI ATTM, ETSI OEU and ITU-T SG5 on carbon emission related KPIs**

*Type: LS out For: Approval  
 to ETSI ATTM, ETSI OEU, ITU-T SG5, cc ETSI EE, 3GPP SA1, 3GPP SA2, 3GPP SA  
 Source: Huawei*

**Discussion:**

+SA1

**Decision:** The document was **revised to S5-246215**.

**S5-246215 LS to ETSI ATTM, ETSI OEU and ITU-T SG5 on carbon emission related KPIs**

*Type: LS out For: Approval  
 to ETSI ATTM, ETSI OEU, ITU-T SG5, cc ETSI EE, 3GPP SA1, 3GPP SA2, 3GPP SA  
 Source: Huawei*

(Replaces S5-245424)

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

**S5-245527 Reply LS on AIML Data Collection**

*Type: LS out For: Approval  
 to RAN2, cc SA2, SA3, TSG RAN, TSG SA  
 Source: SA5*

**Abstract:**

(Nokia)

**Discussion:**

Samsung: cannot say MDT is futureproof.

Qualcomm: SA5 does not support any solution yet.

Samsung will disagree to any discussion papers.

**Decision:** The document was **revised to S5-245979**.

**S5-245979 Reply LS on AIML Data Collection**

*Type: LS out For: Approval  
 to RAN2, cc TSG RAN, RAN1, RAN2, RAN3, TSG SA, SA2, SA3  
 Source: SA5*

(Replaces S5-245527)

**Abstract:**

(Nokia)

**Discussion:**

d7

**Decision:** The document was **revised to S5-246299**.

**S5-246299 Reply LS on AIML Data Collection**

*Type: LS out For: Approval  
 to RAN2, cc TSG RAN, RAN1, RAN2, RAN3, TSG SA, SA2, SA3  
 Source: SA5*

(Replaces S5-245979)

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

**S5-245772 DP on Recommendation for TS handling of IRP based solutions**

*Type: discussion For: Endorsement  
 Source: Ericsson India Private Limited*

**Abstract:**

The group is asked to acknowledge this issue and endorse the proposed solution.

For release 18, endorse option 2 which is adding reference to release 14 of TS 28.623.

For release 19, investigate which documents to withdraw.

For release 20 and beyond, cover only SBMA and remove all IRP based specifications. No automatic TS upgrade for release 20, instead each rapporteur must determine whether the spec is applicable.

**Decision:** The document was **revised to S5-246216**.

**S5-246216 DP on Recommendation for TS handling of IRP based solutions**

*Type: discussion For: Endorsement  
 Source: Ericsson India Private Limited*

(Replaces S5-245772)

**Discussion:**

was not the right version

**Decision:** The document was **revised to S5-246286**.

**S5-246286 DP on Recommendation for TS handling of IRP based solutions**

*Type: discussion For: Endorsement  
 Source: Ericsson India Private Limited*

(Replaces S5-246216)

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

**S5-245968 OAM breakout notes**

*Type: report For: discussion  
 Source: Chair*

**Discussion:**

post meeting

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

**S5-245980 data collection options for UE-side model training.**

*Type: discussion For: discussion  
 Source: ZTE, Huawei, NEC*

**Discussion:**

new doc

MCC: pls. produce a clean version

**Decision:** The document was **revised to S5-246287**.

**S5-246287 data collection options for UE-side model training.**

*Type: discussion For: discussion  
 Source: ZTE, Huawei, NEC*

(Replaces S5-245980)

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

**S5-246296 LS to SA3 on SA5 MonStra work progress (VDF)**

*Type: LS out For: discussion  
 to SA3  
 Source: SA5*

**Discussion:**

(Vaodafone)

for email approval

**Decision:** The document was **for email approval**.

### 6.2 New OAM&P Work Item proposals

#### 6.2.1 Intelligence and Automation

**S5-245360 New WID on intent driven management services for mobile network phase 3**

*Type: WID new For: Agreement  
 Source: Huawei,Ericsson*

**Decision:** The document was **revised to S5-246125**.

**S5-246125 New WID on intent driven management services for mobile network phase 3**

*Type: WID new For: Agreement  
 Source: Huawei,Ericsson*

(Replaces S5-245360)

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

**S5-245367 WID Management Data Analytics (MDA) – Phase 3**

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

**Discussion:**

NEC, Samsung, Nokia, ZTE, DT asked to be added

d2: added China Mobile, China Unicom, Verizon

**Decision:** The document was **revised to S5-246126**.

**S5-246126 WID Management Data Analytics (MDA) – Phase 3**

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

(Replaces S5-245367)

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

**S5-245396 New WID on management aspects of Network Digital Twin**

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

**Discussion:**

received offline comments & prepared a rev.

**Decision:** The document was **revised to S5-246127**.

**S5-246127 New WID on management aspects of Network Digital Twin**

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

(Replaces S5-245396)

**Discussion:**

Nokia objected.

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

**S5-245714 New WID on Closed Control Loop management**

*Type: WID new For: Agreement  
 Source: Samsung, Nokia*

**Discussion:**

Ericsson offline comments

DT is supporting

**Decision:** The document was **revised to S5-246128**.

**S5-246128 New WID on Closed Control Loop management**

*Type: WID new For: Agreement  
 Source: Samsung, Nokia*

(Replaces S5-245714)

**Discussion:**

Ericsson : several comments not taken into account. Objected.

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

**S5-245854 Revised SID: Study on AIML management phase 2**

*Type: SID revised For: Agreement  
 Source: NEC, Intel*

**Discussion:**

Unique identifier: 1020007

**Decision:** The document was **revised to S5-246129**.

**S5-246129 Revised SID: Study on AIML management phase 2**

*Type: SID revised For: Agreement  
 Source: NEC, Intel*

(Replaces S5-245854)

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

#### 6.2.2 Management Architecture and Mechanisms

**S5-245442 New WID on management of IAB nodes**

*Type: WID new For: Agreement  
 Source: Ericsson Telecomunicazioni SpA*

**Decision:** The document was **revised to S5-246130**.

**S5-246130 New WID on management of IAB nodes**

*Type: WID new For: Agreement  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-245442)

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

**S5-245544 New WID on Life Cycle Management (LCM) of NF Deployment**

*Type: WID new For: Agreement  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-245715 New WID on Management Aspects of NTN Phase 2**

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

**Decision:** The document was **revised to S5-246131**.

**S5-246131 New WID on Management Aspects of NTN Phase 2**

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

(Replaces S5-245715)

**Decision:** The document was **revised to S5-246288**.

**S5-246288 New WID on Management Aspects of NTN Phase 2**

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

(Replaces S5-246131)

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

**S5-245726 new WID on cloud aspects of management and orchestration**

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

**Abstract:**

related to the TR 28.869

**Discussion:**

Ericsson objected

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

**S5-245738 Revised SID Study on Service Based Management Architecture enhancement phase 3**

*Type: SID revised For: Agreement  
 Source: Ericsson, Huawei*

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

**S5-245768 pCR Add Evaluation of solutions for Cloud-native VNF policy management**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: China Mobile,NTT DOCOMO*

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

**S5-245775 Revised SID Study on Cloud Aspects of Management and Orchestration**

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

(Replaces SP-231781)

**Abstract:**

Adjust the completion date of the study and update the rapporteur, considering that Bahar will not continue SA5 now, in accordance with the relevant regulations and guidelines of 3GPP SA5.

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

**S5-245785 New WID on Management of Network Sharing Phase 3**

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

**Discussion:**

Nokia offline comments

AN x

Samsung: WT-1 needs to wait

**Decision:** The document was **revised to S5-246132**.

**S5-246132 New WID on Management of Network Sharing Phase 3**

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

(Replaces S5-245785)

**Decision:** The document was **revised to S5-246289**.

**S5-246289 New WID on Management of Network Sharing Phase 3**

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

(Replaces S5-246132)

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

**S5-245793 Revised WID on 5G Advanced NRM features phase 3**

*Type: WID revised For: Agreement  
 Source: Ericsson Inc.*

**Discussion:**

Unique identifier: 1020027

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

#### 6.2.3 Support of New Services

**S5-245336 Initial skeleton of draft TS28.abc v0.0.0 signaling traffic monitoring management**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

**Decision:** The document was **revised to S5-245983**.

**S5-245983 Initial skeleton of draft TS28.abc v0.0.0 signaling traffic monitoring management**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

(Replaces S5-245336)

**Discussion:**

preliminary work before SA approval on the MonStra WID.

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

**S5-245337 pCR of draft TS28.abc Introduction**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

**Decision:** The document was **revised to S5-245984**.

**S5-245984 pCR of draft TS28.abc Introduction**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

(Replaces S5-245337)

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

**S5-245338 pCR of draft TS28.abc Scope**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

**Decision:** The document was **revised to S5-245985**.

**S5-245985 pCR of draft TS28.abc Scope**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

(Replaces S5-245338)

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

**S5-245339 pCR of draft TS28.abc Stage 1 skeleton**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

**Decision:** The document was **revised to S5-245986**.

**S5-245986 pCR of draft TS28.abc Stage 1 skeleton**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

(Replaces S5-245339)

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

**S5-245340 pCR of draft TS28.abc Stage 2 skeleton**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

**Decision:** The document was **revised to S5-245987**.

**S5-245987 pCR of draft TS28.abc Stage 2 skeleton**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

(Replaces S5-245340)

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

**S5-245341 pCR of draft TS28.abc Stage 3 skeleton**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

**Decision:** The document was **revised to S5-245988**.

**S5-245988 pCR of draft TS28.abc Stage 3 skeleton**

*Type: other For: Approval  
 Source: Ericsson, Vodafone*

(Replaces S5-245341)

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

**S5-245615 Revised SID on Study on Enhanced OAM for management exposure to external consumers**

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

**Decision:** The document was **revised to S5-246133**.

**S5-246133 Revised SID on Study on Enhanced OAM for management exposure to external consumers**

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

(Replaces S5-245615)

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

**S5-245711 New WID on Management Aspects of RedCap features**

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

**Discussion:**

WT 1.2 shall be kept open

**Decision:** The document was **revised to S5-246134**.

**S5-246134 New WID on Management Aspects of RedCap features**

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

(Replaces S5-245711)

**Discussion:**

Samsung needs more time for the discussions.

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

**S5-245722 New WID on Management for MonStra**

*Type: WID new For: Agreement  
 Source: Vodafone, Ericsson, Nokia, Nokia Shanghai Bell, Verizon, Telecom Italia, Deutsche Telekom, NTT DOCOMO*

**Abstract:**

External monitoring systems are often used by mobile network operators (MNOs) to track network activity for surveillance and troubleshooting purposes, and subsequently to perform diagnosis and fault analysis of their system. Such monitoring system(s) are fully under the control of the MNOs, and the monitoring can be as well performed at signalling level. Due to the introduction of encryption of the signalling exchanged between network functions in 5G Core, there is no standardized secure interface to share signalling traffic between the 5G network and the monitoring system(s). For MNOs, standard monitoring capabilities are thus essential to continue performing health checks and troubleshooting of networks without additional integration costs, and without the need to standardise, in 3GPP, the internal implementation of the Network Functions.

This work was triggered by the GSMA which expressed their concerns about the monitoring of encrypted signalling traffic, looking for a mechanism that allows a copy of this traffic to be sent to a monitoring system. This concern was reflected in a Liaison Statement sent from the GSMA to 3GPP (WGs SA2, SA3 and SA5) explaining that the current encryption mechanism sending the information with (m)TLS prevents the operators of doing proper troubleshooting for operation and management procedures.

SA WG1 has agreed the feature level requirements needed for monitoring of signalling traffic in a secure way.

SA WG5 is required to fulfil the following requirement from SA1:

o The 5G network shall enable the MNO to configure network monitoring, e.g., switching on/off per network element, selecting what type of elements and what type of signalling from these elements is the target for monitoring.

A discussion paper (S5-244686) has been endorsed by the group endorsing the creation of a new functionality to cover this requirement.

4 Objective

To define the use case, requirements and procedures for a new enable/disable functionality that permits an external monitoring system to request to a network function to send a secured copy of their signalling traffic, implying:

WT1 -To define the mechanism of switching on/off per network function.

WT2 -To define the Network function procedure when the Signalling Monitoring Traffic function is enabled.

WT3 -To define the report mechanism.

Additionally, this work may consider additional topics, and coordinate with other WGs (SA3) as needed basis.

**Discussion:**

2 meetings to conclude.

DT supports the WID.

**Decision:** The document was **revised to S5-245981**.

**S5-245981 New WID on Management for MonStra**

*Type: WID new For: Agreement  
 Source: Vodafone, Ericsson, Nokia, Nokia Shanghai Bell, Verizon, Telecom Italia, Deutsche Telekom, NTT DOCOMO*

(Replaces S5-245722)

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

**S5-245802 pCR of draft TS28.abc Stage 1 requirements**

*Type: other For: Approval  
 Source: Vodafone, Ericsson*

**Decision:** The document was **revised to S5-245989**.

**S5-245989 pCR of draft TS28.abc Stage 1 requirements**

*Type: other For: Approval  
 Source: Vodafone, Ericsson*

(Replaces S5-245802)

**Discussion:**

keep open

rev5

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

**S5-245806 DP on Signalling Traffic Monitoring**

*Type: discussion For: Endorsement  
 Source: Vodafone, Ericsson*

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

**S5-245845 DP on Signalling Traffic Monitoring**

*Type: discussion For: Endorsement  
 Source: Vodafone Ireland Plc*

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

**S5-245847 DP on Signalling Traffic Monitoring**

*Type: discussion For: Endorsement  
 Source: Vodafone, Ericsson*

**Discussion:**

summarize proposals for endorsement.

**Decision:** The document was **revised to S5-245982**.

**S5-245982 DP on Signalling Traffic Monitoring**

*Type: discussion For: Endorsement  
 Source: Vodafone, Ericsson*

(Replaces S5-245847)

**Discussion:**

rev1

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

### 6.3 Pre-Rel-18 Maintenance

#### 6.3.1 Methodology

#### 6.3.2 ANL

#### 6.3.3 MDAS

**S5-245523 Rel-17 CR TS 28.104 Fixing a non-existing datatype**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0132 Cat: F (Rel-17)  
  
 Source: Nokia*

**Discussion:**

Ericsson needed more time

**Decision:** The document was **revised to S5-246180**.

**S5-246180 Rel-17 CR TS 28.104 Fixing a non-existing datatype**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0132 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia*

(Replaces S5-245523)

**Discussion:**

d1

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

**S5-245524 Rel-18 CR TS 28.104 Fixing the non-existing datatype - "List"**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0133 Cat: A (Rel-18)  
  
 Source: Nokia*

**Discussion:**

same as 5523

**Decision:** The document was **revised to S5-246181**.

**S5-246181 Rel-18 CR TS 28.104 Fixing the non-existing datatype - "List"**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0133 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia*

(Replaces S5-245524)

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

**S5-245525 Rel-17 CR TS 28.104 Aligning ENUM literals as per the guidelines**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0134 Cat: F (Rel-17)  
  
 Source: Nokia*

**Discussion:**

Ericsson: overlap with 5748 (merge into)

Use core as CN in a consistent way.

merge 5609 into

**Decision:** The document was **revised to S5-246182**.

**S5-246182 Rel-17 CR TS 28.104 Aligning ENUM literals as per the guidelines**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0134 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia*

(Replaces S5-245525)

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

**S5-245526 Rel-18 CR TS 28.104 Aligning ENUM literals as per the guidelines**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0135 Cat: A (Rel-18)  
  
 Source: Nokia*

**Discussion:**

same as 5525

E/// CR 5747.

**Decision:** The document was **revised to S5-246183**.

**S5-246183 Rel-18 CR TS 28.104 Aligning ENUM literals as per the guidelines**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0135 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia*

(Replaces S5-245526)

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

**S5-245609 Rel-17 CR TS 28.104 Correct the allowed value of issue type**

*Type: CR For: Agreement  
 28.104 v17.9.0 CR-0136 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

merged into 6182

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

**S5-245610 Rel-18 CR TS 28.104 Correct the allowed value of issue type**

*Type: CR For: Agreement  
 28.104 v18.5.0 CR-0137 Cat: A (Rel-18)  
  
 Source: Huawei*

**Discussion:**

merged into 6183

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

**S5-245744 Rel-17 CR TS 28.104 Clarify MDA in management loop**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0120 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244275)

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

**S5-245745 CR TS 28.104 Clarify MDA in management loop**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0121 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244276)

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

**S5-245746 Rel-17 CR TS 28.104 Clarify MDA report identifier**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0118 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244268)

**Discussion:**

Huawei: this attribute is introduced in Rel-17, how to deprecate it.

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

**S5-245747 Rel-18 CR TS 28.104 Clarify MDA report identifier**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0119 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244269)

**Discussion:**

same as 5747

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

**S5-245748 Rel-17 CR TS 28.104 Clarify Recommended3GPPAction**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0122 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244277)

**Decision:** The document was **revised to S5-246185**.

**S5-246185 Rel-17 CR TS 28.104 Clarify Recommended3GPPAction**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0122 rev 3 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-245748)

**Discussion:**

d2

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

**S5-245749 Rel-18 CR TS 28.104 Clarify Recommended3GPPAction**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0123 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244278)

**Decision:** The document was **revised to S5-246186**.

**S5-246186 Rel-18 CR TS 28.104 Clarify Recommended3GPPAction**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0123 rev 3 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-245749)

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

**S5-245750 Rel-17 CR TS 28.104 Correct error in attribute properties of analyticsScope**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0116 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244266)

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

**S5-245751 Rel-18 CR TS 28.104 Correct error in attribute properties of analyticsScope**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0116 rev 3 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244266)

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

**S5-245752 Rel-17 CR 28.104 Clarify analytics identifier**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0139 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

**Discussion:**

Huawei: changing a string to integer is not fully justified

**Decision:** The document was **revised to S5-246275**.

**S5-246275 Rel-17 CR 28.104 Clarify analytics identifier**

*Type: CR For: Approval  
 28.104 v17.9.0 CR-0139 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-245752)

**Discussion:**

d1

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

**S5-245753 Rel-18 CR 28.104 Clarify analytics identifier**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0140 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

**Discussion:**

same as 5752

**Decision:** The document was **revised to S5-246276**.

**S5-246276 Rel-18 CR 28.104 Clarify analytics identifier**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0140 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-245753)

**Discussion:**

d1

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

**S5-245779 Rel-18 CR TS 28.104 Correct error in attribute properties of analyticsScope**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0117 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-244267)

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

#### 6.3.4 AI/ML

**S5-245730 Rel 17 CR TS 28.105 Make decisionConfidenceScore attr applicable for Training**

*Type: CR For: Approval  
 28.105 v17.9.0 CR-0187 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246217**.

**S5-246217 Rel 17 CR TS 28.105 Make decisionConfidenceScore attr applicable for Training**

*Type: CR For: Approval  
 28.105 v17.9.0 CR-0187 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-245730)

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

**S5-245733 Rel 18 CR TS 28.105 Make decisionConfidenceScore attr applicable for Training**

*Type: CR For: Approval  
 28.105 v18.5.0 CR-0188 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246218**.

**S5-246218 Rel 18 CR TS 28.105 Make decisionConfidenceScore attr applicable for Training**

*Type: CR For: Approval  
 28.105 v18.5.0 CR-0188 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-245733)

**Discussion:**

d1

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

**S5-245735 Rel 19 CR TS 28.105 Make decisionConfidenceScore attr applicable for Training**

*Type: CR For: Approval  
 28.105 v19.0.0 CR-0189 Cat: A (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246219**.

**S5-246219 Rel 19 CR TS 28.105 Make decisionConfidenceScore attr applicable for Training**

*Type: CR For: Approval  
 28.105 v19.0.0 CR-0189 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245735)

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

**S5-245809 Rel-17 CR TS 28.105 Fix trainingRequestSource attribute**

*Type: CR For: (not specified)  
 28.105 v17.9.0 CR-0192 Cat: F (Rel-17)  
  
 Source: Ericsson Limited*

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

#### 6.3.5 Energy efficiency

#### 6.3.6 Intent driven management

**S5-245438 Rel-17 CR TS 28.312 intent definition clarification**

*Type: CR For: Approval  
 28.312 v17.7.0 CR-0249 Cat: D (Rel-17)  
  
 Source: Nokia*

**Discussion:**

Huawei: coversheet needs to be aligned.

**Decision:** The document was **revised to S5-246187**.

**S5-246187 Rel-17 CR TS 28.312 intent definition clarification**

*Type: CR For: Approval  
 28.312 v17.7.0 CR-0249 rev 1 Cat: D (Rel-17)  
  
 Source: Nokia*

(Replaces S5-245438)

**Discussion:**

d1

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

#### 6.3.7 SON

#### 6.3.8 QMC

#### 6.3.9 Network slicing management

**S5-245286 Rel-17 CR TS 28.541 Update configuration parameters for GST translation**

*Type: CR For: Agreement  
 28.541 v17.16.0 CR-1358 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-245287 Rel-18 CR TS 28.541 Update configuration parameters for GST translation**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1359 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-245288 Rel-19 CR TS 28.541 Update configuration parameters for GST translation**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1360 Cat: A (Rel-19)  
  
 Source: Huawei*

**Discussion:**

Ericsson offline comments

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

**S5-245622 Rel-18 CR TS 28.541 Correction to sliceAvailability and sliceSubnetAvailability**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1377 Cat: F (Rel-18)  
  
 Source: Nokia*

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

**S5-245623 Rel-19 CR TS 28.541 Correction to sliceAvailability and sliceSubnetAvailability**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1378 Cat: A (Rel-19)  
  
 Source: Nokia*

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

**S5-245628 Rel-17 CR TS 28.541 Corrections to slice SLA attribute energyEfficiency**

*Type: CR For: Approval  
 28.541 v17.16.0 CR-1282 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia*

(Replaces S5-243599)

**Discussion:**

Huawei: wait for reply from GSMA

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

**S5-245629 Rel-18 CR TS 28.541 Corrections to slice SLA attribute energyEfficiency**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1283 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia*

(Replaces S5-243600)

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

**S5-245630 Rel-19 CR TS 28.541 Corrections to slice SLA attribute energyEfficiency**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1284 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia*

(Replaces S5-243601)

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

#### 6.3.10 MEC management

**S5-245316 Rel-17 CR TS 28.538 Correct the desciption of attributes**

*Type: CR For: Agreement  
 28.538 v17.5.0 CR-0090 Cat: F (Rel-17)  
  
 Source: Huawei*

**Discussion:**

Ericsson: check offline

**Decision:** The document was **revised to S5-246189**.

**S5-246189 Rel-17 CR TS 28.538 Correct the desciption of attributes**

*Type: CR For: Agreement  
 28.538 v17.5.0 CR-0090 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei*

(Replaces S5-245316)

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

**S5-245317 Rel-18 CR TS 28.538 Correct the desciption of attributes**

*Type: CR For: Agreement  
 28.538 v18.8.0 CR-0091 Cat: A (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246190**.

**S5-246190 Rel-18 CR TS 28.538 Correct the desciption of attributes**

*Type: CR For: Agreement  
 28.538 v18.8.0 CR-0091 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei*

(Replaces S5-245317)

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

**S5-245318 Rel-19 CR TS 28.538 Correct the desciption of attributes**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0092 Cat: A (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246191**.

**S5-246191 Rel-19 CR TS 28.538 Correct the desciption of attributes**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0092 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-245318)

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

#### 6.3.11 General NRM

**S5-245229 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v16.21.0 CR-1303 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-243653)

**Discussion:**

Ericsson offline comments

**Decision:** The document was **revised to S5-246192**.

**S5-246192 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v16.21.0 CR-1303 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-245229)

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

**S5-245230 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v17.16.0 CR-1304 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-243654)

**Decision:** The document was **revised to S5-246193**.

**S5-246193 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v17.16.0 CR-1304 rev 2 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-245230)

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

**S5-245231 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1305 rev 2 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-244052)

**Discussion:**

first agreed, than revised on Thu

**Decision:** The document was **revised to S5-246220**.

**S5-246220 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1305 rev 3 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-245231)

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

**S5-245232 Correction to misalignment of stage 2 and stage 3 for CellIndividualOffset and QOffsetRangeList**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1306 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-244053)

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

**S5-245239 Rel-17 CR TS 28.541 Correct both stage2 and stage3 for NRNetwork and EUtraNetwork NRM fragement**

*Type: CR For: Agreement  
 28.541 v17.16.0 CR-1354 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-245242 Rel-17 CR TS 28.623 Correct the YAML definition for PerfMetricJob and ProcessMonitor to align with stage2**

*Type: CR For: Agreement  
 28.623 v17.11.0 CR-0433 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-245243 Rel-18 CR TS 28.623 Correct the YAML definition for PerfMetricJob and ProcessMonitor to align with stage2**

*Type: CR For: Agreement  
 28.623 v18.8.0 CR-0434 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-245244 Rel-19 CR TS 28.623 Correct the YAML definition for PerfMetricJob and ProcessMonitor to align with stage2**

*Type: CR For: Agreement  
 28.623 v19.1.0 CR-0435 Cat: A (Rel-19)  
  
 Source: Huawei*

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

**S5-245472 Correction to Jex for dataNodeSelector and notificationFilter in OpenAPI**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0441 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245473 Correction to Jex for dataNodeSelector and notificationFilter in OpenAPI**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0442 Cat: A (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245474 Correction to Jex for dataNodeSelector and Filter in OpenAPI**

*Type: CR For: Approval  
 28.532 v18.4.0 CR-0343 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245475 Update Forge link and a few miscellaneous corrections**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0443 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-246194**.

**S5-246194 Update Forge link and a few miscellaneous corrections**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0443 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-245475)

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

**S5-245476 Update Forge link and a few miscellaneous corrections**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0444 Cat: A (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S5-246195**.

**S5-246195 Update Forge link and a few miscellaneous corrections**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0444 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-245476)

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

**S5-245477 Correction to class diagram**

*Type: CR For: Approval  
 28.622 v18.8.0 CR-0465 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245478 Correction to class diagram**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0466 Cat: A (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245535 Rel-17 CR 32.300 Clarification of allowed characters and escaping**

*Type: CR For: Approval  
 32.300 v17.0.0 CR-0035 Cat: F (Rel-17)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Nokia: need time to check

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

**S5-245536 Rel-18 CR 32.300 Clarification of allowed characters and escaping**

*Type: CR For: Approval  
 32.300 v18.0.0 CR-0036 Cat: A (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

same as 5535

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

**S5-245611 Rel-17 CR TS 28.541 Correction on the property of attibutes**

*Type: CR For: Agreement  
 28.541 v17.16.0 CR-1374 Cat: F (Rel-17)  
  
 Source: Huawei*

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

**S5-245612 Rel-18 CR TS 28.541 Correction on the property of attibutes**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1375 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-245613 Rel-19 CR TS 28.541 Correction on the property of attibutes**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1376 Cat: A (Rel-19)  
  
 Source: Huawei*

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

**S5-245781 Discussion paper on scope and cleanup of FNIM content**

*Type: discussion For: Approval  
 Source: Ericsson Inc.*

**Discussion:**

Nokia: cannot agree. Prefer solution 3.

Rapporteur's call.

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

**S5-245805 Rel-17 CR TS 28.622 Correction to AreaOfInterest**

*Type: CR For: (not specified)  
 28.622 v17.11.0 CR-0482 Cat: F (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-245807 Rel-18 CR TS 28.622 Correction to AreaOfInterest**

*Type: CR For: (not specified)  
 28.622 v18.8.0 CR-0483 Cat: A (Rel-18)  
  
 Source: Ericsson Limited*

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

**S5-245808 Rel-19 CR TS 28.622 Correction to AreaOfInterest**

*Type: CR For: (not specified)  
 28.622 v19.1.0 CR-0484 Cat: A (Rel-19)  
  
 Source: Ericsson Limited*

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

**S5-245822 Rel15 CR TS 28.532 Correction on the supported URI query parameters by the HTTP DELETE method on the "…/{className}={id}" resource**

*Type: CR For: Approval  
 28.532 v15.10.0 CR-0347 Cat: F (Rel-15)  
  
 Source: Nokia*

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

**S5-245823 Rel16 CR TS 28.532 Correction on the supported URI query parameters and response body of the HTTP DELETE method on the "…/{className}={id}" resource**

*Type: CR For: Approval  
 28.532 v16.19.0 CR-0348 Cat: F (Rel-16)  
  
 Source: Nokia*

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

**S5-245824 Rel17 CR TS 28.532 Correction on the supported URI query parameters and response body of the HTTP DELETE method on the "…/{className}={id}" resource**

*Type: CR For: Approval  
 28.532 v17.10.0 CR-0349 Cat: A (Rel-17)  
  
 Source: Nokia*

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

**S5-245825 Rel18 CR TS 28.532 Correction on the supported URI query parameters and response body of the HTTP DELETE method on the "…/{className}={id}" resource**

*Type: CR For: Approval  
 28.532 v18.4.0 CR-0350 Cat: A (Rel-18)  
  
 Source: Nokia*

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

**S5-245826 Rel18 CR TS 28.532 Clarifying the description of the modifications list input parameter in the changeMOI operations**

*Type: CR For: Approval  
 28.532 v18.4.0 CR-0351 Cat: F (Rel-18)  
  
 Source: Nokia*

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

**S5-245832 Rel-17 CR TS 28.531 Management Service for NF provisioning**

*Type: CR For: (not specified)  
 28.531 v17.9.0 CR-0240 Cat: F (Rel-17)  
  
 Source: Ericsson Limited*

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

**S5-245833 Rel-18 CR TS 28.531 Management Service for NF provisioning**

*Type: CR For: (not specified)  
 28.531 v18.7.0 CR-0241 Cat: A (Rel-18)  
  
 Source: Ericsson Limited*

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

**S5-245834 Rel-19 CR TS 28.531 Management Service for NF provisioning**

*Type: CR For: (not specified)  
 28.531 v18.7.0 CR-0242 Cat: A (Rel-19)  
  
 Source: Ericsson Limited*

**Discussion:**

18.7.0->19.7.0

**Decision:** The document was **revised to S5-246198**.

**S5-246198 Rel-19 CR TS 28.531 Management Service for NF provisioning**

*Type: CR For: -  
 28.531 v19.7.0 CR-0242 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson Limited*

(Replaces S5-245834)

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

**S5-245836 Rel-17 CR TS28.541 Fix Documentation column of NRCellDU.pLMNInfoList**

*Type: CR For: Approval  
 28.541 v17.16.0 CR-1386 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S5-245837 Rel-18 CR TS28.541 Fix Documentation column of NRCellDU.pLMNInfoList**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1387 Cat: A (Rel-18)  
  
 Source: ZTE Corporation*

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

**S5-245838 Rel-19 CR TS28.541 Fix Documentation column of NRCellDU.pLMNInfoList**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1388 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

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

**S5-245865 Rel-18 CR 28.623 YANG Corrections SA5-157**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0459 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

rev 1

**Decision:** The document was **revised to S5-246199**.

**S5-246199 Rel-18 CR 28.623 YANG Corrections SA5-157**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0459 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-245865)

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

**S5-245868 Rel-18 CR 28.541 YANG Corrections SA5-157**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1389 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

rev 1

**Decision:** The document was **revised to S5-246200**.

**S5-246200 Rel-18 CR 28.541 YANG Corrections SA5-157**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1389 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-245868)

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

#### 6.3.12 PM/KPI

**S5-245549 Clarification of Measured UE Identifier in the measurement template**

*Type: CR For: Agreement  
 28.558 v19.1.0 CR-0014 rev 2 Cat: F (Rel-19)  
  
 Source: Intel, Ericsson, Nokia*

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

**S5-245635 Rel-19 CR 28.552 Correction of performance monitoring for UDM**

*Type: CR For: Agreement  
 28.552 v19.1.0 CR-0611 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S5-245841 Rel-16 CR TS28.552 Fix message for Number of successful PDU session modifications**

*Type: CR For: Approval  
 28.552 v16.18.0 CR-0616 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S5-245842 Rel-17 CR TS28.552 Fix message for Number of successful PDU session modifications**

*Type: CR For: Approval  
 28.552 v17.15.0 CR-0617 Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

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

**S5-245843 Rel-18 CR TS28.552 Fix message for Number of successful PDU session modifications**

*Type: CR For: Approval  
 28.552 v18.8.0 CR-0618 Cat: A (Rel-18)  
  
 Source: ZTE Corporation*

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

**S5-245844 Rel-19 CR TS28.552 Fix message for Number of successful PDU session modifications**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0619 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

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

#### 6.3.13 Trace/MDT

**S5-245256 R15 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v15.4.0 CR-0134 rev 2 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-242421)

**Discussion:**

Nokia offline comments

**Decision:** The document was **revised to S5-246201**.

**S5-246201 R15 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v15.4.0 CR-0134 rev 3 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-245256)

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

**S5-245257 R16 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v16.4.0 CR-0135 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-242422)

**Discussion:**

same as 5256

**Decision:** The document was **revised to S5-246202**.

**S5-246202 R16 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v16.4.0 CR-0135 rev 3 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-245257)

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

**S5-245258 R17 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v17.5.0 CR-0136 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-242423)

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246203**.

**S5-246203 R17 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v17.5.0 CR-0136 rev 3 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-245258)

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

**S5-245259 R18 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v18.3.0 CR-0137 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-242424)

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246204**.

**S5-246204 R18 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v18.3.0 CR-0137 rev 3 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-245259)

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

**S5-245260 R19 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v19.1.0 CR-0143 Cat: A (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246205**.

**S5-246205 R19 CR 32.421 missing Sec requirements**

*Type: CR For: Agreement  
 32.421 v19.1.0 CR-0143 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245260)

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

**S5-245261 R15 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v15.3.0 CR-0177 rev 3 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-242429)

**Discussion:**

offline comments

**Decision:** The document was **revised to S5-246206**.

**S5-246206 R15 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v15.3.0 CR-0177 rev 4 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S5-245261)

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

**S5-245262 R16 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v16.13.0 CR-0178 rev 2 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-242426)

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246207**.

**S5-246207 R16 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v16.13.0 CR-0178 rev 3 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-245262)

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

**S5-245263 R17 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v17.11.0 CR-0179 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-242427)

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246208**.

**S5-246208 R17 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v17.11.0 CR-0179 rev 3 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-245263)

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

**S5-245264 R18 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v18.4.0 CR-0180 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-242428)

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246209**.

**S5-246209 R18 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v18.4.0 CR-0180 rev 3 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-245264)

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

**S5-245265 R19 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v19.1.0 CR-0192 Cat: A (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

same as above

**Decision:** The document was **revised to S5-246210**.

**S5-246210 R19 CR 32.423 missing Sec requirements**

*Type: CR For: Agreement  
 32.423 v19.1.0 CR-0192 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245265)

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

**S5-245266 Rel-16 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v16.20.0 CR-0412 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-243615)

**Discussion:**

Nokia would like to keep the 'no notification'

Keep open

**Decision:** The document was **revised to S5-246211**.

**S5-246211 Rel-16 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v16.20.0 CR-0412 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S5-245266)

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

**S5-245267 Rel-17 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v17.11.0 CR-0413 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-243616)

**Decision:** The document was **revised to S5-246212**.

**S5-246212 Rel-17 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v17.11.0 CR-0413 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S5-245267)

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

**S5-245268 Rel-18 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0414 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-243617)

**Decision:** The document was **revised to S5-246213**.

**S5-246213 Rel-18 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0414 rev 2 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-245268)

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

**S5-245269 Rel-19 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v19.1.0 CR-0415 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-243618)

**Decision:** The document was **revised to S5-246214**.

**S5-246214 Rel-19 CR TS 28.622 Correction on File ready notification**

*Type: CR For: Agreement  
 28.622 v19.1.0 CR-0415 rev 2 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245269)

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

**S5-245270 Rel-16 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v16.16.0 CR-0482 Cat: F (Rel-16)  
  
 Source: CATT*

**Discussion:**

Nokia offline comments

**Decision:** The document was **revised to S5-246221**.

**S5-246221 Rel-16 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v16.16.0 CR-0482 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S5-245270)

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

**S5-245271 Rel-17 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v17.14.0 CR-0483 Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-246222**.

**S5-246222 Rel-17 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v17.14.0 CR-0483 rev 1 Cat: A (Rel-17)  
  
 Source: CATT*

(Replaces S5-245271)

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

**S5-245272 Rel-18 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v18.4.0 CR-0484 Cat: A (Rel-18)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-246223**.

**S5-246223 Rel-18 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v18.4.0 CR-0484 rev 1 Cat: A (Rel-18)  
  
 Source: CATT*

(Replaces S5-245272)

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

**S5-245273 Rel-19 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0485 Cat: A (Rel-19)  
  
 Source: CATT*

**Decision:** The document was **revised to S5-246224**.

**S5-246224 Rel-19 CR TS 32.422 Update NG-RAN activation mechanisms for management based MDT**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0485 rev 1 Cat: A (Rel-19)  
  
 Source: CATT*

(Replaces S5-245273)

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

**S5-245390 Rel-18 CR 28.623 Correction for "NR Measurent Type" for TraceControlNrm**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0439 Cat: A (Rel-18)  
  
 Source: Nokia Corporation*

**Abstract:**

Correction for NR "Measurent Type" for "TraceControlNrm"

**Decision:** The document was **revised to S5-246227**.

**S5-246227 Rel-18 CR 28.623 Correction for "NR Measurent Type" for TraceControlNrm**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0439 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia Corporation*

(Replaces S5-245390)

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

**S5-245452 Rel-16 CR 32.422 update measurement period description**

*Type: CR For: Agreement  
 32.422 v16.16.0 CR-0487 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-245453 Rel-17 CR 32.422 update measurement period description**

*Type: CR For: Agreement  
 32.422 v17.14.0 CR-0488 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-245454 Rel-18 CR 32.422 update measurement period description**

*Type: CR For: Agreement  
 32.422 v18.4.0 CR-0489 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-245455 Rel-19 CR 32.422 update measurement period description**

*Type: CR For: Agreement  
 32.422 v19.0.0 CR-0490 Cat: A (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246229**.

**S5-246229 Rel-19 CR 32.422 update measurement period description**

*Type: CR For: Agreement  
 32.422 v19.0.0 CR-0490 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-245455)

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

**S5-245481 Rel-19 CR 28.623 Correction for "NR Measurent Type" for TraceControlNrm**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0445 Cat: A (Rel-19)  
  
 Source: Nokia Corporation*

**Decision:** The document was **revised to S5-246228**.

**S5-246228 Rel-19 CR 28.623 Correction for "NR Measurent Type" for TraceControlNrm**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0445 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia Corporation*

(Replaces S5-245481)

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

**S5-245486 Rel-16 CR 28.623 Correction for "NR Measurent Type" for "GenericNrm"**

*Type: CR For: Approval  
 28.623 v16.17.0 CR-0446 Cat: F (Rel-16)  
  
 Source: Nokia Corporation*

**Abstract:**

Correction for "NR Measurement Type".

**Decision:** The document was **revised to S5-246225**.

**S5-246225 Rel-16 CR 28.623 Correction for "NR Measurent Type" for "GenericNrm"**

*Type: CR For: Approval  
 28.623 v16.17.0 CR-0446 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia Corporation*

(Replaces S5-245486)

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

**S5-245488 Rel-17 CR 28.623 Correction for "NR Measurent Type" for "GenericNrm"**

*Type: CR For: Approval  
 28.623 v17.11.0 CR-0447 Cat: A (Rel-17)  
  
 Source: Nokia Corporation*

**Abstract:**

Correction for "NR Measurent Type"

**Decision:** The document was **revised to S5-246226**.

**S5-246226 Rel-17 CR 28.623 Correction for "NR Measurent Type" for "GenericNrm"**

*Type: CR For: Approval  
 28.623 v17.11.0 CR-0447 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia Corporation*

(Replaces S5-245488)

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

**S5-245506 Rel-16 CR 28.622 Correction of attribute "jobType" of TraceJob IOC**

*Type: CR For: Approval  
 28.622 v16.20.0 CR-0467 Cat: F (Rel-16)  
  
 Source: Nokia*

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

**S5-245507 Rel-17 CR 28.622 Correction of attribute "jobType" of TraceJob IOC**

*Type: CR For: Approval  
 28.622 v17.11.0 CR-0468 Cat: A (Rel-17)  
  
 Source: Nokia*

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

**S5-245508 Rel-18 CR 28.622 Correction of attribute "jobType" of TraceJob IOC**

*Type: CR For: Approval  
 28.622 v18.8.0 CR-0469 Cat: A (Rel-18)  
  
 Source: Nokia*

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

**S5-245509 Rel-19 CR 28.622 Correction of attribute "jobType" of TraceJob IOC**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0470 Cat: A (Rel-19)  
  
 Source: Nokia*

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

**S5-245513 Rel-17 CR 32.422 Cleanup regarding latest time to send Trace Records to TCE**

*Type: CR For: Approval  
 32.422 v17.14.0 CR-0491 Cat: F (Rel-17)  
  
 Source: Nokia*

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

**S5-245514 Rel-18 CR 32.422 Cleanup regarding latest time to send Trace Records to TCE**

*Type: CR For: Approval  
 32.422 v18.4.0 CR-0492 Cat: A (Rel-18)  
  
 Source: Nokia*

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

**S5-245515 Rel-19 CR 32.422 Cleanup regarding latest time to send Trace Records to TCE**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0493 Cat: A (Rel-19)  
  
 Source: Nokia*

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

**S5-245516 Rel-16 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v16.16.0 CR-0494 Cat: F (Rel-16)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-245728**.

**S5-245517 Rel-17 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v17.14.0 CR-0495 Cat: A (Rel-17)  
  
 Source: Nokia*

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

**S5-245518 Rel-18 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v18.4.0 CR-0496 Cat: A (Rel-18)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-245731**.

**S5-245519 Rel-19 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0497 Cat: A (Rel-19)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-245734**.

**S5-245728 Rel-16 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v16.16.0 CR-0494 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia*

(Replaces S5-245516)

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

**S5-245731 Rel-18 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v18.4.0 CR-0496 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia*

(Replaces S5-245518)

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

**S5-245734 Rel-19 CR 32.422 Cleanup of configuration parameters and conditions**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0497 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia*

(Replaces S5-245519)

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

**S5-245866 CR Rel-19 TS 32.422 Corrections for MDT**

*Type: CR For: Agreement  
 32.422 v19.0.0 CR-0499 Cat: A (Rel-19)  
  
 Source: NEC*

**Discussion:**

F->A

**Decision:** The document was **revised to S5-246230**.

**S5-246230 CR Rel-19 TS 32.422 Corrections for MDT**

*Type: CR For: Agreement  
 32.422 v19.0.0 CR-0499 rev 1 Cat: A (Rel-19)  
  
 Source: NEC*

(Replaces S5-245866)

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

**S5-245867 CR Rel-18 TS 32.422 Corrections for MDT**

*Type: CR For: Agreement  
 32.422 v18.4.0 CR-0500 Cat: A (Rel-18)  
  
 Source: NEC*

**Discussion:**

F->A

**Decision:** The document was **revised to S5-246231**.

**S5-246231 CR Rel-18 TS 32.422 Corrections for MDT**

*Type: CR For: Agreement  
 32.422 v18.4.0 CR-0500 rev 1 Cat: A (Rel-18)  
  
 Source: NEC*

(Replaces S5-245867)

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

**S5-245869 CR Rel-17 TS 32.422 Corrections for MDT**

*Type: CR For: Agreement  
 32.422 v17.14.0 CR-0501 Cat: F (Rel-17)  
  
 Source: NEC*

**Discussion:**

A->F

**Decision:** The document was **revised to S5-246232**.

**S5-246232 CR Rel-17 TS 32.422 Corrections for MDT**

*Type: CR For: Agreement  
 32.422 v17.14.0 CR-0501 rev 1 Cat: F (Rel-17)  
  
 Source: NEC*

(Replaces S5-245869)

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

#### 6.3.14 Other

**S5-245236 Discussion on improvements of creating class diagram**

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

**Decision:** The document was **revised to S5-246233**.

**S5-246233 Discussion on improvements of creating class diagram**

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

(Replaces S5-245236)

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

**S5-245310 Rel-16 CR TS 28.541 Align allowed value for ueAccProbabilityDist**

*Type: CR For: Approval  
 28.541 v16.21.0 CR-1363 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-245311 Rel-17 CR TS 28.541 Align allowed value for ueAccProbabilityDist**

*Type: CR For: Approval  
 28.541 v17.16.0 CR-1364 Cat: A (Rel-17)  
  
 Source: Huawei*

**Discussion:**

TEI16?

**Decision:** The document was **revised to S5-246234**.

**S5-246234 Rel-17 CR TS 28.541 Align allowed value for ueAccProbabilityDist**

*Type: CR For: Approval  
 28.541 v17.16.0 CR-1364 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei*

(Replaces S5-245311)

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

**S5-245312 Rel-18 CR TS 28.541 Align allowed value for ueAccProbabilityDist**

*Type: CR For: Approval  
 28.541 v18.9.0 CR-1365 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-245313 Rel-19 CR TS 28.541 Align allowed value for ueAccProbabilityDist**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1366 Cat: A (Rel-19)  
  
 Source: Huawei*

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

**S5-245502 Rel-17 CR 28.537 Clarification of external management data**

*Type: CR For: Approval  
 28.537 v17.6.0 CR-0023 Cat: F (Rel-17)  
  
 Source: Nokia*

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

**S5-245503 Rel-18 CR 28.537 Clarification of external management data**

*Type: CR For: Approval  
 28.537 v18.2.0 CR-0024 Cat: A (Rel-18)  
  
 Source: Nokia*

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

**S5-246235 Rel-19 CR 28.537 Clarification of external management data**

*Type: CR For: Approval  
 28.537 v18.2.0 CR-0027 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S5-245504 Rel-17 CR 28.537 Correction of requirement labels**

*Type: CR For: Approval  
 28.537 v17.6.0 CR-0025 Cat: F (Rel-17)  
  
 Source: Nokia*

**Discussion:**

Ericsson disagreed, it's not FASMO

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

**S5-245505 Rel-18 CR 28.537 Clarification of management data and subgroups of it**

*Type: CR For: Approval  
 28.537 v18.2.0 CR-0026 Cat: A (Rel-18)  
  
 Source: Nokia*

**Discussion:**

Ericsson disagreed, it's not FASMO

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

**S5-245606 Rel-16 CR TS 28.536 Fix issues in SLS Assurance Procedure**

*Type: CR For: Agreement  
 28.536 v16.7.0 CR-0100 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**S5-245607 Rel-17 CR TS 28.536 Fix issues in SLS Assurance Procedure**

*Type: CR For: Agreement  
 28.536 v17.9.0 CR-0101 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**S5-245608 Rel-18 CR TS 28.536 Fix issues in SLS Assurance Procedure**

*Type: CR For: Agreement  
 28.536 v18.2.0 CR-0102 Cat: A (Rel-18)  
  
 Source: Huawei*

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

**S5-245673 Rel-18 TS 28.623 Correction to AreaScope YANG Stage 3 only**

*Type: CR For: Approval  
 28.623 v18.8.0 CR-0451 Cat: A (Rel-18)  
  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

Rel-18 TS 28.623 Correction to AreaScope YANG Stage 3 only

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

**S5-245680 Rel-17 TS 28.623 Correction to AreaScope YANG Stage 3 only**

*Type: CR For: Approval  
 28.623 v17.11.0 CR-0452 Cat: A (Rel-17)  
  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

Rel-17 TS 28.623 Correction to AreaScope YANG Stage 3 only

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

**S5-245682 Rel-16 TS 28.623 Correction to AreaScope YANG Stage 3 only**

*Type: CR For: Approval  
 28.623 v16.17.0 CR-0453 Cat: F (Rel-16)  
  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

Rel-16 TS 28.623 Correction to AreaScope YANG Stage 3 only

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

**S5-245683 Rel-19 TS 28.623 Correction to AreaScope YANG Stage 3 only**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0454 Cat: A (Rel-19)  
  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

Rel-19 TS 28.623 Correction to AreaScope YANG Stage 3 only

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

**S5-245727 Rel-17 CR TS 28.622 Correction of undefined data types**

*Type: CR For: Agreement  
 28.622 v17.11.0 CR-0478 Cat: F (Rel-17)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-246236**.

**S5-246236 Rel-17 CR TS 28.622 Correction of undefined data types**

*Type: CR For: Agreement  
 28.622 v17.11.0 CR-0478 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson India Private Limited*

(Replaces S5-245727)

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

**S5-245729 Rel-18 CR TS 28.622 Correction of undefined data types**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0479 Cat: A (Rel-18)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-246237**.

**S5-246237 Rel-18 CR TS 28.622 Correction of undefined data types**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0479 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson India Private Limited*

(Replaces S5-245729)

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

**S5-245739 Discussion on simplification ACCL model**

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

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

**S5-245740 Rel-17 CR TS 28.536 Correcting ACCL class diagram and AssuranceGoal description**

*Type: CR For: Approval  
 28.536 v17.9.0 CR-0104 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

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

**S5-245741 Rel-18 CR TS 28.536 Correcting ACCL class diagram and AssuranceGoal description**

*Type: CR For: Agreement  
 28.536 v18.2.0 CR-0105 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

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

**S5-245742 Rel-17 CR 28.536 Clarify ACCL and AssurancGoal constraints**

*Type: CR For: Approval  
 28.536 v17.9.0 CR-0106 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom*

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

**S5-245743 Rel-18 CR 28.536 Clarify ACCL and AssurancGoal constraints**

*Type: CR For: Agreement  
 28.536 v18.2.0 CR-0107 Cat: A (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

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

**S5-245798 Rel-17 CR TS 28.530 Fix network slice related aspects**

*Type: CR For: Agreement  
 28.530 v17.5.0 CR-0070 Cat: F (Rel-17)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-246238**.

**S5-246238 Rel-17 CR TS 28.530 Fix network slice related aspects**

*Type: CR For: Agreement  
 28.530 v17.5.0 CR-0070 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson Limited*

(Replaces S5-245798)

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

**S5-245799 Rel-18 CR TS 28.530 Fix network slice related aspects**

*Type: CR For: Agreement  
 28.530 v18.1.0 CR-0071 Cat: A (Rel-18)  
  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-246239**.

**S5-246239 Rel-18 CR TS 28.530 Fix network slice related aspects**

*Type: CR For: Agreement  
 28.530 v18.1.0 CR-0071 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson Limited*

(Replaces S5-245799)

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

**S5-245800 Rel-17 CR TS 28.532 Clarify only-system-created behaviour for ProvMnS**

*Type: CR For: Approval  
 28.532 v17.10.0 CR-0345 Cat: F (Rel-17)  
  
 Source: Ericsson Inc.*

**Discussion:**

Nokia disagreed

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

**S5-245801 Rel-18 CR TS 28.532 Clarify only-system-created behaviour for ProvMnS**

*Type: CR For: Agreement  
 28.532 v18.4.0 CR-0346 Cat: A (Rel-18)  
  
 Source: Ericsson Inc.*

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

### 6.4 Rel-18 Maintenance and Rel-19 small Enhancements

#### 6.4.1 Self-Configuration of RAN NEs

#### 6.4.2 Management Data Analytics phase 2

#### 6.4.3 AI/ML management

**S5-245225 Rel-18 CR TS 28.105 Clarify the Usage of mLModelRef and mLModelCoordinationGroupRef**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0177 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Discussion:**

Ericsson & Nokia offline comments

Don't new attributes for the 2. & 3. change.

**Decision:** The document was **revised to S5-246135**.

**S5-246135 Rel-18 CR TS 28.105 Clarify the Usage of mLModelRef and mLModelCoordinationGroupRef**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0177 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S5-245225)

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

**S5-245226 Rel-18 CR TS 28.105 Clarify the Usage of mLModelRef and mLModelCoordinationGroupRef**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0178 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

**Discussion:**

same as 5225

**Decision:** The document was **revised to S5-246136**.

**S5-246136 Rel-18 CR TS 28.105 Clarify the Usage of mLModelRef and mLModelCoordinationGroupRef**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0178 rev 1 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

(Replaces S5-245226)

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

**S5-245234 Rel-18 CR TS 28.105 AIML Terminology Alignment**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0179 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S5-245235 Rel-18 CR TS 28.105 AIML Terminology Alignment**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0180 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

**Discussion:**

reissued as S5-246137 because of wrong title

**Decision:** The document was **revised**.

**S5-246137 Rel-19 CR TS 28.105 AIML Terminology Alignment**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0195 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

**Abstract:**

reissued from S5-245235 because of wrong title

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

**S5-245314 Rel-18 CR TS 28.105 correct the areNewTrainingDataUsed attributes**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0182 Cat: F (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246279**.

**S5-246279 Rel-18 CR TS 28.105 correct the areNewTrainingDataUsed attributes**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0182 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-245314)

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

**S5-245315 Rel-19 CR TS 28.105 correct the areNewTrainingDataUsed attributes**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0183 Cat: A (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246138**.

**S5-246138 Rel-19 CR TS 28.105 correct the areNewTrainingDataUsed attributes**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0183 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-245315)

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

**S5-245690 Rel-19 TS 28.541Correct AIML associations**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1353 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-244882)

**Abstract:**

Rel-19 TS 28.541Correct AIML associations

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

**S5-245720 Rel-18 CR TS 28.105 Corrections to AIML functionalities management scenarios**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0185 Cat: F (Rel-18)  
  
 Source: Nokia*

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

**S5-245723 Rel-19 CR TS 28.105 Corrections to AIML functionalities management scenarios**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0186 Cat: A (Rel-19)  
  
 Source: Nokia*

**Discussion:**

offline comments from Nokia

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

**S5-245737 Rel 18 CR TS 28.105 Fix modelPerformanceValidation attribute**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0190 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246139**.

**S5-246139 Rel 18 CR TS 28.105 Fix modelPerformanceValidation attribute**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0190 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-245737)

**Discussion:**

offline comments from Nokia

**Decision:** The document was **revised to S5-246280**.

**S5-246280 Rel 18 CR TS 28.105 Fix modelPerformanceValidation attribute**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0190 rev 2 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S5-246139)

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

**S5-245761 Rel 19 CR TS 28.105 Fix modelPerformanceValidation attribute**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0191 Cat: A (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246140**.

**S5-246140 Rel 19 CR TS 28.105 Fix modelPerformanceValidation attribute**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0191 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245761)

**Decision:** The document was **revised to S5-246281**.

**S5-246281 Rel 19 CR TS 28.105 Fix modelPerformanceValidation attribute**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0191 rev 2 Cat: A (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-246140)

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

**S5-245863 CR Rel-19 TS 28.105 add missing terms**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0193 Cat: A (Rel-19)  
  
 Source: NEC, Intel*

**Discussion:**

Cat. F->A !

this is a mirror

**Decision:** The document was **revised to S5-246141**.

**S5-246141 CR Rel-19 TS 28.105 add missing terms**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0193 rev 1 Cat: A (Rel-19)  
  
 Source: NEC, Intel*

(Replaces S5-245863)

**Discussion:**

d1

**Decision:** The document was **revised to S5-246290**.

**S5-246290 CR Rel-19 TS 28.105 add missing terms**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0193 rev 2 Cat: A (Rel-19)  
  
 Source: NEC, Intel, Ericsson, Nokia, Huawei, Deutsche Telekom*

(Replaces S5-246141)

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

**S5-245864 CR Rel-18 TS 28.105 add missing terms**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0194 Cat: F (Rel-18)  
  
 Source: NEC, Intel*

**Decision:** The document was **revised to S5-246142**.

**S5-246142 CR Rel-18 TS 28.105 add missing terms**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0194 rev 1 Cat: F (Rel-18)  
  
 Source: NEC, Intel*

(Replaces S5-245864)

**Decision:** The document was **revised to S5-246291**.

**S5-246291 CR Rel-18 TS 28.105 add missing terms**

*Type: CR For: Agreement  
 28.105 v18.5.0 CR-0194 rev 2 Cat: F (Rel-18)  
  
 Source: NEC, Intel, Ericsson, Nokia, Huawei, Deutsche Telekom*

(Replaces S5-246142)

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

#### 6.4.4 Intent driven Management Service for mobile network phase 2

**S5-245255 Rel-18 CR TS 28.312 Correct issues for targetAssuranceTimeContext and pLMNContext**

*Type: CR For: Agreement  
 28.312 v18.5.0 CR-0247 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**S5-245437 Rel-18 CR TS 28.312 intent definition clarification**

*Type: CR For: Approval  
 28.312 v18.5.0 CR-0248 Cat: A (Rel-18)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-246188**.

**S5-246188 Rel-18 CR TS 28.312 intent definition clarification**

*Type: CR For: Approval  
 28.312 v18.5.0 CR-0248 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia*

(Replaces S5-245437)

**Discussion:**

d1

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

**S5-245441 Rel-18 CR TS 28.312 intent termination deadline**

*Type: CR For: Approval  
 28.312 v18.5.0 CR-0250 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

B->C

Rel-19 instead; come back at the next meeting

Ericsson: questioned whether these additions are needed

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

**S5-245754 Rel-18 CR TS 28.312 Fix stage 2 type definition of infeasibilityReason**

*Type: CR For: Approval  
 28.312 v18.5.0 CR-0252 Cat: F (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

**Decision:** The document was **revised to S5-246144**.

**S5-246144 Rel-18 CR TS 28.312 Fix stage 2 type definition of infeasibilityReason**

*Type: CR For: Approval  
 28.312 v18.5.0 CR-0252 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-245754)

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

**S5-245764 Rel 19 CR TS 28.312 Remove Support Qualifier from attribute constraints**

*Type: CR For: Approval  
 28.312 v18.5.0 CR-0253 Cat: C (Rel-19)  
  
 Source: Ericsson*

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

#### 6.4.5 Service based management architecture

**S5-245399 Rel-18 CR 28.111 Add missing definition of Alarming Condition**

*Type: CR For: Approval  
 28.111 v18.2.0 CR-0015 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd*

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

**S5-245496 Rel-18 CR 28.111 Add numerical values for probable cause**

*Type: CR For: Approval  
 28.111 v18.2.0 CR-0010 rev 4 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd, Deutsche Telekom, AT&T, Huawei, NTT DOCOMO, China Mobile, China Unicom, China Telecom, Vodafone, Verizon, KDDI*

(Replaces S5-244887)

**Discussion:**

+KDDI

**Decision:** The document was **revised to S5-246145**.

**S5-246145 Rel-18 CR 28.111 Add numerical values for probable cause**

*Type: CR For: Approval  
 28.111 v18.2.0 CR-0010 rev 5 Cat: F (Rel-18)  
  
 Source: Ericsson Hungary Ltd, Deutsche Telekom, AT&T, Huawei, NTT DOCOMO, China Mobile, China Unicom, China Telecom, Vodafone, Verizon, KDDI*

(Replaces S5-245496)

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

**S5-245736 Rel-18 CR TS 28.622 Rapporteur cleanup**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0480 Cat: F (Rel-18)  
  
 Source: Ericsson India Private Limited*

**Discussion:**

[29]=[30]

Ericsson: every new spec going forward should follow the current guideline

Disussion about changing the reference version.

**Decision:** The document was **revised to S5-246146**.

**S5-246146 Rel-18 CR TS 28.622 Rapporteur cleanup**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0480 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson India Private Limited*

(Replaces S5-245736)

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

**S5-245762 Rel-19 CR TS 28.622 Rapporteur cleanup**

*Type: CR For: Agreement  
 28.622 v19.1.0 CR-0481 Cat: A (Rel-19)  
  
 Source: Ericsson India Private Limited*

**Decision:** The document was **revised to S5-246147**.

**S5-246147 Rel-19 CR TS 28.622 Rapporteur cleanup**

*Type: CR For: Agreement  
 28.622 v19.1.0 CR-0481 rev 1 Cat: A (Rel-19)  
  
 Source: Ericsson India Private Limited*

(Replaces S5-245762)

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

#### 6.4.6 Network slicing provisioning rules

#### 6.4.7 Network slice provisioning enhancement

#### 6.4.8 Management of Trace/MDT phase 2

**S5-245510 Rel-18 CR 28.622 Corrections for 5GC UE level measurements in TraceJob IOC**

*Type: CR For: Approval  
 28.622 v18.8.0 CR-0471 Cat: F (Rel-18)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-246148**.

**S5-246148 Rel-18 CR 28.622 Corrections for 5GC UE level measurements in TraceJob IOC**

*Type: CR For: Approval  
 28.622 v18.8.0 CR-0471 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia*

(Replaces S5-245510)

**Discussion:**

d1

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

**S5-245511 Rel-19 CR 28.622 Corrections for 5GC UE level measurements in TraceJob IOC**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0472 Cat: A (Rel-19)  
  
 Source: Nokia*

**Discussion:**

4.4.1 should disappear

**Decision:** The document was **revised to S5-246149**.

**S5-246149 Rel-19 CR 28.622 Corrections for 5GC UE level measurements in TraceJob IOC**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0472 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia*

(Replaces S5-245511)

**Discussion:**

d1

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

#### 6.4.9 5G performance measurements and KPIs phase 3

**S5-245551 Resubmitted clarification of Measured UE Identifier in the measurement template**

*Type: CR For: Agreement  
 28.558 v19.1.0 CR-0027 Cat: F (Rel-19)  
  
 Source: Intel, Ericsson, Nokia*

**Decision:** The document was **revised to S5-245778**.

**S5-245636 Rel-19 CR 28.554 Energy consumption per node type for NwSlice**

*Type: CR For: Agreement  
 28.554 v19.1.0 CR-0207 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

offline comments from Nokia.

Huawei did not agree.

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

**S5-245637 Rel-19 CR 28.554 Energy efficiency per node type for NwSlice**

*Type: CR For: Agreement  
 28.554 v19.1.0 CR-0208 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

same as 5636

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

**S5-245638 Rel-19 CR 28.554 Energy consumption per SMSF for NwSlice**

*Type: CR For: Agreement  
 28.554 v19.1.0 CR-0209 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

same as 5636

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

**S5-245699 Rel-18 CR 28.622 resolving inconsistencies common-measurements**

*Type: CR For: Agreement  
 28.622 v18.8.0 CR-0475 Cat: F (Rel-18)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

Ericsson: work together to find a better solution.

Will be presented again next time.

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

**S5-245700 Rel-19 CR 28.622 resolving inconsistencies common-measurements**

*Type: CR For: Agreement  
 28.622 v19.1.0 CR-0476 Cat: A (Rel-19)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

WIC AdNRM\_Ph3->AdNRM\_ph2

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

**S5-245701 Rel-18 CR 28.623 resolving inconsistencies common-measurements**

*Type: CR For: Agreement  
 28.623 v18.8.0 CR-0455 Cat: F (Rel-18)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

RAN x

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

**S5-245702 Rel-19 CR 28.623 resolving inconsistencies common-measurements**

*Type: CR For: Agreement  
 28.623 v19.1.0 CR-0456 Cat: A (Rel-19)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

RAN x

AdNRM\_Ph3-> AdNRM\_ph2

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

**S5-245778 Resubmitted clarification of Measured UE Identifier in the measurement template**

*Type: CR For: Agreement  
 28.558 v19.1.0 CR-0027 rev 1 Cat: F (Rel-19)  
  
 Source: Intel, Ericsson, Nokia*

(Replaces S5-245551)

**Decision:** The document was **revised to S5-246150**.

**S5-246150 Resubmitted clarification of Measured UE Identifier in the measurement template**

*Type: CR For: Agreement  
 28.558 v19.1.0 CR-0027 rev 2 Cat: F (Rel-19)  
  
 Source: Intel, Ericsson, Nokia*

(Replaces S5-245778)

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

#### 6.4.10 Enhancement of QoE Measurement Collection

**S5-245223 Rel-18 CR TS 28.405 Correct the procedure description of management based activation in NR**

*Type: CR For: Approval  
 28.405 v18.7.0 CR-0037 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Discussion:**

Ericsson: clause renumbering! MCC: not allowed

**Decision:** The document was **revised to S5-246155**.

**S5-246155 Rel-18 CR TS 28.405 Correct the procedure description of management based activation in NR**

*Type: CR For: Approval  
 28.405 v18.7.0 CR-0037 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S5-245223)

**Discussion:**

d1

Ericsson needed more time.

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

**S5-245224 Rel-19 CR TS 28.405 Correct the procedure description of management based activation in NR**

*Type: CR For: Approval  
 28.405 v19.1.0 CR-0038 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

**Discussion:**

Ericsson: clause renumbering! MCC: not allowed

**Decision:** The document was **revised to S5-246156**.

**S5-246156 Rel-19 CR TS 28.405 Correct the procedure description of management based activation in NR**

*Type: CR For: Approval  
 28.405 v19.1.0 CR-0038 rev 1 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

(Replaces S5-245224)

**Discussion:**

d1

Ericsson needed more time.

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

#### 6.4.11 Additional NRM features phase 2

**S5-245240 Rel-18 CR TS 28.541 Correct both stage2 and stage3 for NRNetwork and EUtraNetwork NRM fragement**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1355 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**S5-245241 Rel-19 CR TS 28.541 Correct both stage2 and stage3 for NRNetwork and EUtraNetwork NRM fragement**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1356 Cat: A (Rel-19)  
  
 Source: Huawei*

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

**S5-245319 Rel-18 CR TS 28.541 Correct the reference of alarm notifications**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1367 Cat: F (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246157**.

**S5-246157 Rel-18 CR TS 28.541 Correct the reference of alarm notifications**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1367 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-245319)

**Discussion:**

d1

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

**S5-245320 Rel-19 CR TS 28.541 Correct the reference of alarm notifications**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1368 Cat: A (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246158**.

**S5-246158 Rel-19 CR TS 28.541 Correct the reference of alarm notifications**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1368 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-245320)

**Discussion:**

d1

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

#### 6.4.12 Management Aspects related to NWDAF

#### 6.4.13 Enhanced Edge Computing Management

**S5-245456 Rel-18 CR 28.538 CR implemention issue for reservationJobRef**

*Type: CR For: Agreement  
 28.538 v18.8.0 CR-0093 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**S5-245457 Rel-19 CR 28.538 CR implemention issue for reservationJobRef**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0094 Cat: A (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246159**.

**S5-246159 Rel-19 CR 28.538 CR implemention issue for reservationJobRef**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0094 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-245457)

**Discussion:**

d1

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

#### 6.4.14 Management Aspect of 5GLAN

#### 6.4.15 Management Aspects of NTN

**S5-245670 Correct NRM diagram and remove not used imported definitions**

*Type: CR For: Approval  
 28.658 v18.0.0 CR-0064 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

#### 6.4.16 methodology for deprecation

#### 6.4.17 Management of cloud-native Virtualized Network Functions

#### 6.4.18 Management Aspects of 5G Network Sharing Phase2

**S5-245851 Rel-18 CR TS28.552 Recover bulk wrongly voided clauses for conflict CR0482 and 0497 in MANS\_ph2**

*Type: CR For: Approval  
 28.552 v18.8.0 CR-0620 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-246161**.

**S5-246161 Rel-18 CR TS28.552 Recover bulk wrongly voided clauses for conflict CR0482 and 0497 in MANS\_ph2**

*Type: CR For: Approval  
 28.552 v18.8.0 CR-0620 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation, China Unicom, Ericsson*

(Replaces S5-245851)

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

**S5-245852 Rel-19 CR TS28.552 Recover bulk wrongly voided clauses for conflict CR0482 and 0497 in MANS\_ph2**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0621 Cat: A (Rel-19)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-246162**.

**S5-246162 Rel-19 CR TS28.552 Recover bulk wrongly voided clauses for conflict CR0482 and 0497 in MANS\_ph2**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0621 rev 1 Cat: A (Rel-19)  
  
 Source: ZTE Corporation, China Unicom, Ericsson*

(Replaces S5-245852)

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

#### 6.4.19 Management Aspects of URLLC

#### 6.4.20 Management aspects of 5G system supporting satellite backhaul

#### 6.4.21 Access control for management service

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

#### 6.4.23 Management of non-public networks phase 2

#### 6.4.24 Network and Service Operations for Energy Utilities

**S5-245766 Rel 19 CR TS 28.318 implement readOnly attributes for openAPI**

*Type: CR For: Approval  
 28.318 v18.1.0 CR-0012 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Discussion:**

merged into 6175

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

#### 6.4.25 Rel-18 CAT B/C alignment CR(s) due to the work led by other 3GPP Working Groups

**S5-245278 Rel-18 CR to TS 28.623 Correct wrong CR number in managed element YANG file**

*Type: CR For: (not specified)  
 28.623 v18.8.0 CR-0437 Cat: F (Rel-18)  
  
 Source: Ericsson (China)*

**Discussion:**

keep open

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

**S5-245279 Rel-19 CR to TS 28.623 Correct wrong CR number in managed element YANG file**

*Type: CR For: Agreement  
 28.623 v19.1.0 CR-0438 Cat: A (Rel-19)  
  
 Source: Ericsson (China)*

**Discussion:**

keep open

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

**S5-245624 Rel-18 CR TS 28.541 OpenAPI SS Stage 3 for energy cost mapping rule**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1379 Cat: B (Rel-18)  
  
 Source: Nokia*

**Discussion:**

F->B

+Huawei

**Decision:** The document was **revised to S5-246163**.

**S5-246163 Rel-18 CR TS 28.541 OpenAPI SS Stage 3 for energy cost mapping rule**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1379 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Huawei*

(Replaces S5-245624)

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

**S5-245625 Rel-19 CR TS 28.541 OpenAPI SS Stage 3 for energy cost mapping rule**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1380 Cat: A (Rel-19)  
  
 Source: Nokia*

**Discussion:**

+Huawei

**Decision:** The document was **revised to S5-246164**.

**S5-246164 Rel-19 CR TS 28.541 OpenAPI SS Stage 3 for energy cost mapping rule**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1380 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia, Huawei*

(Replaces S5-245625)

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

**S5-245626 Rel-18 CR TS 28.541 Corrections to energy cost mapping rule description**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1381 Cat: B (Rel-18)  
  
 Source: Nokia*

**Discussion:**

F->B

Huawei: editorial enhancement

Ericsson: concern on average window size

+Huawei

**Decision:** The document was **revised to S5-246165**.

**S5-246165 Rel-18 CR TS 28.541 Corrections to energy cost mapping rule description**

*Type: CR For: Agreement  
 28.541 v18.9.0 CR-1381 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Huawei, Ericsson*

(Replaces S5-245626)

**Discussion:**

d1

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

**S5-245627 Rel-19 CR TS 28.541 Corrections to energy cost mapping rule description**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1382 Cat: A (Rel-19)  
  
 Source: Nokia*

**Discussion:**

same as 5626

+Huawei

**Decision:** The document was **revised to S5-246166**.

**S5-246166 Rel-19 CR TS 28.541 Corrections to energy cost mapping rule description**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1382 rev 1 Cat: A (Rel-19)  
  
 Source: Nokia, Huawei, Ericsson*

(Replaces S5-245627)

**Discussion:**

d1

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

#### 6.4.26 Rel-18 CAT B/C SA5 internal alignment and other CAT F CR(s)

#### 6.4.27 OAM Rel-19 small enhancements

**S5-245246 Rel-19 CR TS 28.105 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0181 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposal in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

+Ericsson

**Decision:** The document was **revised to S5-246167**.

**S5-246167 Rel-19 CR TS 28.105 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.105 v19.0.0 CR-0181 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245246)

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

**S5-245247 Rel-19 CR TS 28.317 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.317 v18.2.0 CR-0010 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

+Ericsson

**Decision:** The document was **revised to S5-246168**.

**S5-246168 Rel-19 CR TS 28.317 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.317 v18.2.0 CR-0010 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245247)

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

**S5-245248 Rel-19 CR TS 28.312 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.312 v18.5.0 CR-0246 Cat: C (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246169**.

**S5-246169 Rel-19 CR TS 28.312 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.312 v18.5.0 CR-0246 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245248)

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

**S5-245249 Rel-19 CR TS 28.111 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.111 v18.2.0 CR-0014 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

+Ericsson

**Decision:** The document was **revised to S5-246170**.

**S5-246170 Rel-19 CR TS 28.111 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.111 v18.2.0 CR-0014 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245249)

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

**S5-245250 Rel-19 CR TS 28.623 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.623 v19.1.0 CR-0436 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

+Ericsson

Nokia: need more time

**Decision:** The document was **revised to S5-246171**.

**S5-246171 Rel-19 CR TS 28.623 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.623 v19.1.0 CR-0436 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245250)

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

**S5-245251 Rel-19 CR TS 28.104 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.104 v18.5.0 CR-0131 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

+Ericsson

**Decision:** The document was **revised to S5-246172**.

**S5-246172 Rel-19 CR TS 28.104 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.104 v18.5.0 CR-0131 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245251)

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

**S5-245252 Rel-19 CR TS 28.538 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0089 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

+Ericsson

Huawei: keep duration

**Decision:** The document was **revised to S5-246173**.

**S5-246173 Rel-19 CR TS 28.538 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0089 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245252)

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

**S5-245253 Rel-19 CR TS 28.536 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.536 v18.2.0 CR-0099 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Decision:** The document was **revised to S5-246174**.

**S5-246174 Rel-19 CR TS 28.536 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.536 v18.2.0 CR-0099 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245253)

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

**S5-245254 Rel-19 CR TS 28.318 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.318 v18.1.0 CR-0011 Cat: C (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Implement endorsed porposals in S5-244773 Rel-19 DP on openAPI solution set for readOnly attributes for different scenarios

**Discussion:**

5766 merge into here

**Decision:** The document was **revised to S5-246175**.

**S5-246175 Rel-19 CR TS 28.318 Implement readonly attributes for openAPI SS**

*Type: CR For: Agreement  
 28.318 v18.1.0 CR-0011 rev 1 Cat: C (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245254)

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

**S5-245321 Rel-19 CR TS 28.541 Add the inheritance information for NRECMappingRule IOC and Beam IOC.**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1369 Cat: C (Rel-19)  
  
 Source: Huawei*

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

**S5-245397 Rel-19 CR 32.156 Specify Escaping for DN type**

*Type: CR For: Approval  
 32.156 v19.0.0 CR-0104 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Discussion:**

Question from Nokia about the reference to 32.300, still needs discussion.

related to 5535-6

Delayed.

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

**S5-245467 Enhance the isUnique property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.105 v19.0.0 CR-0184 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245469 Clarify the Attribute property "multiplicity" for OpenAPI**

*Type: CR For: Approval  
 32.160 v19.1.0 CR-0071 Cat: C (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245499 Rel-19 CR 32.158 Add design pattern for requests of data fractions**

*Type: CR For: Approval  
 32.158 v18.2.0 CR-0144 Cat: B (Rel-19)  
  
 Source: Nokia*

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

**S5-245500 Rel-19 CR 28.532 Add HTTP Range Request for file data reporting service**

*Type: CR For: Approval  
 28.532 v18.4.0 CR-0344 Cat: B (Rel-19)  
  
 Source: Nokia*

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

**S5-245533 Rel-19 CR 28.623 Clarify how to fetch YANG modules**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0448 Cat: C (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Candidate for block approval

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

**S5-245546 Rel-19 CR 28.622 Correct definition of choice**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0474 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Candidate for block approval

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

**S5-245547 Rel-19 CR 28.541 Correct definition of choice**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1373 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Candidate for block approval

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

**S5-245631 Rel-19 CR 28.312 Enhance the isUnique property for stage 3 OpenAPI**

*Type: CR For: Agreement  
 28.312 v18.5.0 CR-0251 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S5-245632 Rel-19 CR 28.317 Enhance the isUnique property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.317 v18.2.0 CR-0011 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S5-245633 Rel-19 CR 28.104 Enhance the isUnique property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.104 v18.5.0 CR-0138 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S5-245634 Rel-19 CR 28.536 Enhance the isUnique property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.536 v18.2.0 CR-0103 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S5-245721 Rel-19 CR TS 28.623 Clarification on Real and Float data types**

*Type: CR For: Agreement  
 28.623 v19.1.0 CR-0458 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Candidate for block approval

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

**S5-245759 Rel-18 CR TS 28.533 Clarify phrasing in the diagram in clause 5.5**

*Type: CR For: Approval  
 28.533 v18.3.0 CR-0143 Cat: F (Rel-18)  
  
 Source: Ericsson, Deutsche Telekom*

**Discussion:**

Huawei disagreed.

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

**S5-245763 Rel 19 CR TS 28.538 Remove Support Qualifier from attribute constraints**

*Type: CR For: Approval  
 28.538 v19.1.0 CR-0096 Cat: C (Rel-19)  
  
 Source: Ericsson*

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

**S5-245765 Rel 19 CR TS 28.104 Remove Support Qualifier from attribute constraints**

*Type: CR For: Agreement  
 28.104 v18.5.0 CR-0141 Cat: C (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246178**.

**S5-246178 Rel 19 CR TS 28.104 Remove Support Qualifier from attribute constraints**

*Type: CR For: Agreement  
 28.104 v18.5.0 CR-0141 rev 1 Cat: C (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245765)

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

**S5-245804 Rel-19 CR TS 28.541 Define new data types**

*Type: CR For: (not specified)  
 28.541 v19.1.0 CR-1385 Cat: B (Rel-19)  
  
 Source: Ericsson Limited*

**Discussion:**

Nokia: stage 3 is missing.

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

**S5-245835 Rel-19 CR 32.160 Simplify YANG mapping of structured attributes**

*Type: CR For: Approval  
 32.160 v19.1.0 CR-0072 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Candidate for block approval

**Discussion:**

first agreed, then revised to change a colon.

**Decision:** The document was **revised to S5-246184**.

**S5-246184 Rel-19 CR 32.160 Simplify YANG mapping of structured attributes**

*Type: CR For: Approval  
 32.160 v19.1.0 CR-0072 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-245835)

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

### 6.19 OAM&P Rel-19 Study and Work Items

#### 6.19.1 Study on AI/ML management - phase 2

**S5-245274 Rel-19 pCR TR 28.858 Add possible solutions on ML entity distributed training management**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: CATT*

(Replaces S5-244256)

**Decision:** The document was **revised to S5-246003**.

**S5-246003 Rel-19 pCR TR 28.858 Add possible solutions on ML entity distributed training management**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: CATT*

(Replaces S5-245274)

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

**S5-245275 Rel-19 pCR TR 28.858 Update use case on ML entity distributed training**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: CATT*

**Discussion:**

E///: who is responsible for the splitting?

**Decision:** The document was **revised to S5-246002**.

**S5-246002 Rel-19 pCR TR 28.858 Update use case on ML entity distributed training**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: CATT*

(Replaces S5-245275)

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

**S5-245299 Rel-19 pCR TR 28.858 add the use case of Managing NWDAF inference function**

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

**Discussion:**

discussion involving Huawei, NEC, Nokia, Ericsson about removing federated learning

**Decision:** The document was **revised to S5-245999**.

**S5-245999 Rel-19 pCR TR 28.858 add the use case of Managing NWDAF inference function**

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

(Replaces S5-245299)

**Discussion:**

Nokia objects

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

**S5-245300 Rel-19 pCR TR 28.858 add use case of managing NG-RAN AIML-based Network Slicing**

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

**Discussion:**

comments about RAN3 having already use cases.

**Decision:** The document was **revised to S5-246000**.

**S5-246000 Rel-19 pCR TR 28.858 add use case of managing NG-RAN AIML-based Network Slicing**

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

(Replaces S5-245300)

**Discussion:**

Nokia objected

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

**S5-245301 Rel-19 pCR TR 28.858 add use case of managing NG-RAN AIML-based Coverage and Capacity Optimization**

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

**Decision:** The document was **revised to S5-246001**.

**S5-246001 Rel-19 pCR TR 28.858 add use case of managing NG-RAN AIML-based Coverage and Capacity Optimization**

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

(Replaces S5-245301)

**Discussion:**

Nokia objects

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

**S5-245302 Rel-19 pCR TR 28.858 add the use case of Data collection for UE-side model training**

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

**Discussion:**

discuss with S5-245980

merged into 6287

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

**S5-245303 Rel-19 pCR TR 28.858 Update the use case of ML training data statistics**

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

**Decision:** The document was **revised to S5-245993**.

**S5-245993 Rel-19 pCR TR 28.858 Update the use case of ML training data statistics**

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

(Replaces S5-245303)

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

**S5-245304 Rel-19 pCR TR 28.858 Update the use case of ML model training for multiple contexts**

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

**Decision:** The document was **revised to S5-246259**.

**S5-246259 Rel-19 pCR TR 28.858 Update the use case of ML model training for multiple contexts**

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

(Replaces S5-245304)

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

**S5-245305 Rel-19 pCR TR 28.858 Update the use case of Managing ML Model Transfer in RAN**

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

**Discussion:**

DT and Ericsson supported clarification from RAN.

NEC will draft LS S5-5997 in the next meeting.

merge into 5998.

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

**S5-245997 Clarification on model transfer from OEM Model transfer/delivery to UE**

*Type: LS out For: Approval  
 28.858 v0.2.0  
 to RAN2  
 Source: SA5*

**Abstract:**

(Huawei)

**Discussion:**

wrong doc

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

**S5-246292 LS on AI/ML Model transfer/delivery to UE**

*Type: LS out For: Approval  
 to RAN2, RAN1, cc RAN, SA, RAN3  
 Source: SA5*

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

**S5-245306 Rel-19 pCR TR 28.858 add use cases, requirements for network performance management of reinforcement learning**

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

**Discussion:**

merged into 5461->6255

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

**S5-245307 Rel-19 pCR TR 28.858 add possible solutions and evaluations for reinforcement learning management**

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

**Discussion:**

merged into 6255

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

**S5-245308 Rel-19 pCR TR 28.858 add use cases, requirements for conflict management of reinforcement learning**

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

**Decision:** The document was **revised to S5-246257**.

**S5-246257 Rel-19 pCR TR 28.858 add use cases, requirements for conflict management of reinforcement learning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Huawei, Nokia, ZTE*

(Replaces S5-245308)

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

**S5-245309 Rel-19 pCR TR 28.858 add possible solutions for conflict management of reinforcement learning**

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

**Decision:** The document was **revised to S5-246256**.

**S5-246256 Rel-19 pCR TR 28.858 add possible solutions for conflict management of reinforcement learning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Huawei, Nokia*

(Replaces S5-245309)

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

**S5-245395 Rel-19 pCR TR 28.858 add solution for AI emulation**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: China Mobile*

**Decision:** The document was **revised to S5-245990**.

**S5-245990 Rel-19 pCR TR 28.858 add solution for AI emulation**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: China Mobile, Nokia*

(Replaces S5-245395)

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

**S5-245416 Rel-19 pCR TR 28.858 improve ML-knowledge-based transfer learning use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245994**.

**S5-245994 Rel-19 pCR TR 28.858 improve ML-knowledge-based transfer learning use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245416)

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

**S5-245460 Rel-19 pCR TR 28.858 Update the Description of Management of Reinforcement Learning Use Case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-246254**.

**S5-246254 Rel-19 pCR TR 28.858 Update the Description of Management of Reinforcement Learning Use Case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

(Replaces S5-245460)

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

**S5-245461 Rel-19 pCR TR 28.858 Add New Requirements and Possible Solution to the Reinforcement Learning Use Case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S5-246255**.

**S5-246255 Rel-19 pCR TR 28.858 Add New Requirements and Possible Solution to the Reinforcement Learning Use Case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation, Huawei, Nokia, Samsung*

(Replaces S5-245461)

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

**S5-245462 Rel-19 pCR TR 28.858 Add Possible Solution, Evaluation and Conclusion for Managing ML Model Transfer in RAN**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

**Discussion:**

editorial comments.

E/// agreed with Huawei that the evaluation needs an update.

Samsung: modal loading does not support OAM use case.

merged into S5-245998

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

**S5-245463 Rel-19 pCR TR 28.858 Add Term and Concept for HFL and VFL**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

**Discussion:**

into 6264

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

**S5-245464 Rel-19 pCR TR 28.858 Update Description and Add New Requirements to Management of Federated Learning Use Case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

**Discussion:**

DT: what is 'maintain the client'?

Revise to add HFL.

**Decision:** The document was **revised to S5-246004**.

**S5-246004 Rel-19 pCR TR 28.858 Update Description and Add New Requirements to Management of Federated Learning Use Case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

(Replaces S5-245464)

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

**S5-245465 Rel-19 pCR TR 28.858 Add Possible Solution for Management of Federated Learning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: ZTE Corporation*

**Discussion:**

merged into 6248

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

**S5-245479 pCR 28.858 Updates to Coordination between the ML capabilities**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

E/// supports NEC

DT suggested a more sophisticated approach.

**Decision:** The document was **revised to S5-245991**.

**S5-245991 pCR 28.858 Updates to Coordination between the ML capabilities**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S5-245479)

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

**S5-245480 Rel-19 pCR TR 28.858 Add evaluation for ML model confidence**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246261**.

**S5-246261 Rel-19 pCR TR 28.858 Add evaluation for ML model confidence**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245480)

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

**S5-245482 Rel-19 pCR TR 28.858 Add solution for ML remedial action management**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246262**.

**S5-246262 Rel-19 pCR TR 28.858 Add solution for ML remedial action management**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245482)

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

**S5-245483 Rel-19 pCR TR 28.858 Add solution for Management of Reinforcement Learning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Discussion:**

into 6355

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

**S5-245484 Rel-19 pCR TR 28.858 Add solution for ML training aspects of sustainable AIML**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246265**.

**S5-246265 Rel-19 pCR TR 28.858 Add solution for ML training aspects of sustainable AIML**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245484)

**Discussion:**

revised further

**Decision:** The document was **revised to S5-246285**.

**S5-246285 Rel-19 pCR TR 28.858 Add solution for ML training aspects of sustainable AIML**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, ZTE*

(Replaces S5-246265)

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

**S5-245485 Rel-19 pCR TR 28.858 Add solution for ML inference aspects of sustainable AIML**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245992**.

**S5-245992 Rel-19 pCR TR 28.858 Add solution for ML inference aspects of sustainable AIML**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245485)

**Discussion:**

late comments

**Decision:** The document was **revised to S5-246284**.

**S5-246284 Rel-19 pCR TR 28.858 Add solution for ML inference aspects of sustainable AIML**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, ZTE*

(Replaces S5-245992)

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

**S5-245487 Rel-19 pCR TR 28.858 Add use case to support efficient retraining**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246278**.

**S5-246278 Rel-19 pCR TR 28.858 Add use case to support efficient retraining**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245487)

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

**S5-245489 Rel-19 pCR TR 28.858 AIML prediction latency**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246263**.

**S5-246263 Rel-19 pCR TR 28.858 AIML prediction latency**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, ZTE*

(Replaces S5-245489)

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

**S5-245490 Discussion on ML explainability**

*Type: discussion For: Discussion  
 28.858 v..  
 Source: Nokia, Verizon*

**Discussion:**

Proposal 1 and 2

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

**S5-245491 Rel-19 pCR TR 28.858 ML explainability**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, Verizon*

**Decision:** The document was **revised to S5-245719**.

**S5-245492 Rel-19 pCR TR 28.858 Add evaluation for ML model training for multiple contexts**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246260**.

**S5-246260 Rel-19 pCR TR 28.858 Add evaluation for ML model training for multiple contexts**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia*

(Replaces S5-245492)

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

**S5-245493 pCR 28.858 Add description for GenAI**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: HUAWEI Technologies Japan K.K.*

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

**S5-245531 Rel-19 pCR TR 28.858 Add Evaluation and Conclusion for Pre-training**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: China Mobile Com. Corporation, ZTE*

**Decision:** The document was **revised to S5-246251**.

**S5-246251 Rel-19 pCR TR 28.858 Add Evaluation and Conclusion for Pre-training**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: China Mobile Com. Corporation, Ericsson-LG Co, ZTE, NEC, Nokia*

(Replaces S5-245531)

**Discussion:**

5686 merged into.

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

**S5-245532 Rel-19 pCR TR 28.858 Add Evaluation and Conclusion for Fine-tuning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: China Mobile Com. Corporation, ZTE*

**Discussion:**

breakout 2-Q4

merge with 5861? 6249?

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

**S5-245552 pCR TR 28.858 Add possible solution for management of Federated Learning**

*Type: pCR For: Approval  
 28.858 v0.1.0  
 Source: Intel, ZTE, Nokia, China Mobile, NEC, HUAWEI*

**Decision:** The document was **revised to S5-245780**.

**S5-245556 pCR 28.858 Correct use of specification**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: HUAWEI Technologies Japan K.K.*

**Decision:** The document was **revised to S5-246253**.

**S5-246253 pCR 28.858 Correct use of specification**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: HUAWEI Technologies Japan K.K.*

(Replaces S5-245556)

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

**S5-245663 Rel-19 pCR 28.858 Solution for managing ML Model in live network**

*Type: pCR For: Agreement  
 28.858 v0.2.0  
 Source: Samsung, AT&T*

**Decision:** The document was **revised to S5-245996**.

**S5-245996 Rel-19 pCR 28.858 Solution for managing ML Model in live network**

*Type: pCR For: Agreement  
 28.858 v0.2.0  
 Source: Samsung, AT&T*

(Replaces S5-245663)

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

**S5-245681 Rel-19 pCR 28.858 Generative AI**

*Type: pCR For: Agreement  
 28.858 v0.2.0  
 Source: Samsung R&D Institute India*

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

**S5-245685 PCR TR 28.858 Add missing Terms and abbreviations**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

TR 28.858 Add missing Terms and abbreviations

**Discussion:**

merged into 6264

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

**S5-245686 PCR TR 28.858 Pre-training Potential Solution and Evaluation**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

Pre-training Potential Solution and Evaluation

**Discussion:**

merge 6251

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

**S5-245687 PCR TR 28.858 Fine-Tunning Potential Solution and Evaluation**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

Fine-Tunning Potential Solution and Evaluation

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

**S5-245688 PCR TR 28.858 Adding ML Authentication UseCase**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Ericsson-LG Co., LTD*

**Abstract:**

ML Authentication UseCase

**Decision:** The document was **revised to S5-246258**.

**S5-246258 PCR TR 28.858 Adding ML Authentication UseCase**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Ericsson-LG Co., LTD*

(Replaces S5-245688)

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

**S5-245719 Rel-19 pCR TR 28.858 ML explainability**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, Verizon, NTT DOCOMO*

(Replaces S5-245491)

**Decision:** The document was **revised to S5-245840**.

**S5-245780 pCR TR 28.858 Add possible solution for management of Federated Learning**

*Type: pCR For: Approval  
 28.858 v0.1.0  
 Source: Intel, ZTE, Nokia, China Mobile, NEC, HUAWEI, Ericsson*

(Replaces S5-245552)

**Discussion:**

merge 4565 into

**Decision:** The document was **revised to S5-246248**.

**S5-246248 pCR TR 28.858 Add possible solution for management of Federated Learning**

*Type: pCR For: Approval  
 28.858 v0.1.0  
 Source: Intel, ZTE, Nokia, China Mobile, NEC, HUAWEI, Ericsson*

(Replaces S5-245780)

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

**S5-245840 Rel-19 pCR TR 28.858 ML explainability**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, Verizon, NTT DOCOMO, Deutsche Telekom*

(Replaces S5-245719)

**Decision:** The document was **revised to S5-246266**.

**S5-246266 Rel-19 pCR TR 28.858 ML explainability**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: Nokia, Verizon, NTT DOCOMO, Deutsche Telekom*

(Replaces S5-245840)

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

**S5-245853 WF: Study on AI/ML management – phase 2**

*Type: discussion For: Discussion  
 28.858 v..  
 Source: NEC, Intel*

**Discussion:**

rapporteur to provide more inputs for guidance

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

**S5-245855 pCR TR 28.858 clarifications into ML model transfer use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

**Decision:** The document was **revised to S5-245998**.

**S5-245998 pCR TR 28.858 clarifications into ML model transfer use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel, Huawei, ZTE, Deutsche Telekom*

(Replaces S5-245855)

**Discussion:**

S5-245462 merged into here

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

**S5-245856 pCR TR 28.858 clarifications and corrections into ML-Knowledge-based Transfer Learning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

**Discussion:**

DT: specific-> -ied (criteria)

**Decision:** The document was **revised to S5-245995**.

**S5-245995 pCR TR 28.858 clarifications and corrections into ML-Knowledge-based Transfer Learning**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

(Replaces S5-245856)

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

**S5-245857 pCR TR 28.858 clarifications and corrections into AI/ML inference emulation**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

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

**S5-245858 pCR TR 28.858 add terms and abbreviations**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

**Decision:** The document was **revised to S5-246264**.

**S5-246264 pCR TR 28.858 add terms and abbreviations**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

(Replaces S5-245858)

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

**S5-245859 pCR TR 28.858 add reference to TS 28.105 for Rel-19 terms and definitions**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

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

**S5-245860 pCR TR 28.858 add clarifications on ML pre-training use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

**Decision:** The document was **revised to S5-246252**.

**S5-246252 pCR TR 28.858 add clarifications on ML pre-training use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

(Replaces S5-245860)

**Discussion:**

ZTE objected.

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

**S5-245861 pCR TR 28.858 add clarifications on ML fine-tuning use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

**Decision:** The document was **revised to S5-246250**.

**S5-246250 pCR TR 28.858 add clarifications on ML fine-tuning use case**

*Type: pCR For: Approval  
 28.858 v0.2.0  
 Source: NEC, Intel*

(Replaces S5-245861)

**Discussion:**

ZTE objected.

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

**S5-245862 DP Rel-18 and Rel-19 AIML related terms and definitions**

*Type: pCR For: Endorsement  
 28.858 v0.2.0  
 Source: NEC, Intel*

**Discussion:**

ie endorsed.

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

**S5-245950 Draft TR 28.858**

*Type: draft TR For: Approval  
 28.858 v0.3.0  
 Source: NEC*

**Decision:** The document was **email approval**.

#### 6.19.2 Study on Management Data Analytics (MDA) – Phase 3

**S5-245221 Rel-19 pCR TR 28.866 Add solution evaluation and conclusion for Edge computing performance analytics UC**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: AsiaInfo*

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

**S5-245362 Rel-19 pCR 28.866 Remove WT-5**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Huawei*

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

**S5-245363 Rel-19 pCR 28.866 WT alignment for control plane congestion analytics**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Huawei*

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

**S5-245364 Rel-19 pCR 28.866 Improve wording of conclusions**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Huawei*

**Discussion:**

Nokia got comments

+Samsung

**Decision:** The document was **revised to S5-246035**.

**S5-246035 Rel-19 pCR 28.866 Improve wording of conclusions**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Huawei, Samsung*

(Replaces S5-245364)

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

**S5-245365 Rel-19 pCR 28.866 Editorial improvements**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Huawei*

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

**S5-245366 Presentation of TR 28.866 to SA for Approval**

*Type: TS or TR cover For: Approval  
 28.866 v1.0.1  
 Source: Huawei*

**Discussion:**

suggest to do it at the next meeting, insert into 6035

keep it open

Nokia asked for more time.

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

**S5-245520 Rel-19 pCR TR 28.866 New Usecase on Management data collection recommendation for predicted failure**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246037**.

**S5-246037 Rel-19 pCR TR 28.866 New Usecase on Management data collection recommendation for predicted failure**

*Type: pCR For: Approval  
 28.866 v1.0.1  
 Source: Nokia*

(Replaces S5-245520)

**Discussion:**

d2

Huawei has concern. Objecting.

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

**S5-245679 Rel-19 pCR 28.866 EE Conclusions**

*Type: pCR For: Agreement  
 28.866 v1.0.1  
 Source: Samsung, Nokia*

**Discussion:**

ZTE: no ES state for beams.

**Decision:** The document was **revised to S5-246036**.

**S5-246036 Rel-19 pCR 28.866 EE Conclusions**

*Type: pCR For: Agreement  
 28.866 v1.0.1  
 Source: Samsung, Nokia*

(Replaces S5-245679)

**Discussion:**

d2

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

**S5-245955 Draft TR 28.866**

*Type: draft TR For: Approval  
 28.866 v1.1.0  
 Source: Huawei*

**Decision:** The document was **email approval**.

#### 6.19.3 Study on intent driven management services for mobile network phase 3

**S5-245343 pCR TR 28.914 Rapporteur clean up**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Huawei*

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

**S5-245344 pCR TR 28.914 Add conclusion for Use case #5 Improve intent lifecycle documentation**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Huawei, Deutsche Telekom*

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

**S5-245345 CR TR 28.914 Update Use case #6 Investigate potential impacts to support natural language intents translation**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Discussion:**

NTT DOCOMO: not clear if natural language context cannot be translated directly.

Ericsson: it may be outside of scope of SA5.

**Decision:** The document was **revised to S5-246056**.

**S5-246056 CR TR 28.914 Update Use case #6 Investigate potential impacts to support natural language intents translation**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-245345)

**Discussion:**

d2

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

**S5-245401 Rel-19 pCR 28.914 Rel-19 pCR TR28.914 Conclusion on negotiation and utility functions**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Nokia*

**Discussion:**

5776 is related.

ZTE & NTT DOCOMO have offline comments.

+Huawei

**Decision:** The document was **revised to S5-246054**.

**S5-246054 Rel-19 pCR 28.914 Rel-19 pCR TR28.914 Conclusion on negotiation and utility functions**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Nokia, Huawei*

(Replaces S5-245401)

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

**S5-245440 Rel-19 pCR 28.914 editorial corrections**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Nokia*

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

**S5-245667 Rel-19 pCR TR 28.914 implicit intent report subscription update**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Nokia*

**Discussion:**

merged into 6054

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

**S5-245694 pCR TR 28.914 Add Evaluation and Conclusion for Use-Case #19**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: NTT DOCOMO INC.*

**Discussion:**

ZTE: what is the relationship between the new template supported requirement context and existing object context?

**Decision:** The document was **revised to S5-246055**.

**S5-246055 pCR TR 28.914 Add Evaluation and Conclusion for Use-Case #19**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: NTT DOCOMO INC.*

(Replaces S5-245694)

**Discussion:**

d2

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

**S5-245776 pCR TR 28.914 Update UC#13 evaluation and recommendation**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Ericsson Inc.*

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

**S5-245783 Presentation of TR 28.914 to SA for information**

*Type: TS or TR cover For: Approval  
 28.914 v1.0.1  
 Source: Ericsson Inc., Huawei*

**Discussion:**

SA5 Vice Chair: we need a summary to describe the changes since last time.

**Decision:** The document was **revised to S5-246059**.

**S5-246059 Presentation of TR 28.914 to SA for information**

*Type: TS or TR cover For: Approval  
 28.914 v1.0.1  
 Source: Ericsson Inc., Huawei*

(Replaces S5-245783)

**Discussion:**

d1

meeting nr.!

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

**S5-245784 pCR TR 28.914 Rapporteur clean-up**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Ericsson Inc.*

**Discussion:**

'shall' is allowed in potential requirements.

**Decision:** The document was **revised to S5-246053**.

**S5-246053 pCR TR 28.914 Rapporteur clean-up**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: Ericsson Inc.*

(Replaces S5-245784)

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

**S5-245788 pCR TR 28.914 Add description of intent negotiation initiated by MnS producer**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: China Mobile, ZTE*

**Discussion:**

DT: not clear which negotiation is intended.

Keep open.

**Decision:** The document was **revised to S5-246058**.

**S5-246058 pCR TR 28.914 Add description of intent negotiation initiated by MnS producer**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: China Mobile, ZTE*

(Replaces S5-245788)

**Discussion:**

d2

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

**S5-245791 pCR TR 28.914 Add description of intent negotiation**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: China Mobile, ZTE*

**Discussion:**

Samsung: what is implicit target is not clear.

Nokia: this conclusion is not needed at all.

**Decision:** The document was **revised to S5-246057**.

**S5-246057 pCR TR 28.914 Add description of intent negotiation**

*Type: pCR For: Approval  
 28.914 v1.0.1  
 Source: China Mobile, ZTE*

(Replaces S5-245791)

**Discussion:**

d2

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

**S5-245958 Draft TR 28.914**

*Type: draft TR For: Approval  
 28.914 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **email approval**.

#### 6.19.4 Study on closed control loop management

**S5-245322 pCR TR 28.867 Update the description of the usage by ConditoinMonitor in UC2**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Huawei*

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

**S5-245323 pCR TR 28.867 Update the description of the relationship between CCL and Intent Handling**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246011**.

**S5-246011 pCR TR 28.867 Update the description of the relationship between CCL and Intent Handling**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Huawei*

(Replaces S5-245323)

**Discussion:**

d1

E/// needed more time.

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

**S5-245346 pCR TR28.867 Add conclusion for Use case 4 closed control loop for problem recovery**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246012**.

**S5-246012 pCR TR28.867 Add conclusion for Use case 4 closed control loop for problem recovery**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Huawei, Nokia*

(Replaces S5-245346)

**Discussion:**

d2

E/// needed more time.

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

**S5-245402 Rel-19 pCR TR28.867 Rapporteur cleanup.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246009**.

**S5-246009 Rel-19 pCR TR28.867 Rapporteur cleanup.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245402)

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

**S5-245403 Rel-19 pCR TR28.867 Revise terminology on CCL conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246013**.

**S5-246013 Rel-19 pCR TR28.867 Revise terminology on CCL conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245403)

**Discussion:**

d1

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

**S5-245404 Rel-19 pCR TR28.867 CCL conflicts with other management features.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246023**.

**S5-246023 Rel-19 pCR TR28.867 CCL conflicts with other management features.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245404)

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

**S5-245405 Rel-19 pCR TR28.867 Add information on severity conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246024**.

**S5-246024 Rel-19 pCR TR28.867 Add information on severity conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245405)

**Discussion:**

Samsung objected.

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

**S5-245406 Rel-19 pCR TR28.867 Avoidance of CCL action-execution-time conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246015**.

**S5-246015 Rel-19 pCR TR28.867 Avoidance of CCL action-execution-time conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245406)

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

**S5-245407 Rel-19 pCR TR28.867 enhance solution on Dynamic CCL creation.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Discussion:**

Ericsson does not agree with this change.

It was already not agreed at the last meeting.

**Decision:** The document was **revised to S5-246019**.

**S5-246019 Rel-19 pCR TR28.867 enhance solution on Dynamic CCL creation.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245407)

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

**S5-245408 Rel-19 pCR TR28.867 enhance solution on triggered CCL.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Discussion:**

Ericsson wondered what the added information is.

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

**S5-245409 Rel-19 pCR TR28.867 enhance usecase on Historical CCL.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246021**.

**S5-246021 Rel-19 pCR TR28.867 enhance usecase on Historical CCL.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245409)

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

**S5-245410 Rel-19 pCR TR28.867 Clarify Solution for CCL conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Discussion:**

DT: needs to be revised

**Decision:** The document was **revised to S5-246016**.

**S5-246016 Rel-19 pCR TR28.867 Clarify Solution for CCL conflicts.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245410)

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

**S5-245411 Rel-19 pCR TR28.867 Clarify Solution for CCL scope management.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246017**.

**S5-246017 Rel-19 pCR TR28.867 Clarify Solution for CCL scope management.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245411)

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

**S5-245412 Rel-19 pCR TR28.867 Clarify Solution for CCL impact assessment.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246018**.

**S5-246018 Rel-19 pCR TR28.867 Clarify Solution for CCL impact assessment.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia*

(Replaces S5-245412)

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

**S5-245413 Rel-19 pCR TR28.867 Conclusions and Recommendations.docx"**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Nokia, Samsung*

**Discussion:**

merged into 6026

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

**S5-245665 Rel-19 pCR 28.867 Unifying Req with CCL MnS Producer**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

**Decision:** The document was **revised to S5-246010**.

**S5-246010 Rel-19 pCR 28.867 Unifying Req with CCL MnS Producer**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

(Replaces S5-245665)

**Discussion:**

d1

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

**S5-245666 Rel-19 pCR 28.867 Solution Evaluations Performance**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

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

**S5-245668 Rel-19 pCR 28.867 Solution Evaluations Historical**

*Type: pCR For: (not specified)  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

**Discussion:**

keep open

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

**S5-245669 Rel-19 pCR 28.867 Solution Evaluations Dynamic and Triggered CCL**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

**Discussion:**

Nokia: these attributes are not reachable.

**Decision:** The document was **revised to S5-246020**.

**S5-246020 Rel-19 pCR 28.867 Solution Evaluations Dynamic and Triggered CCL**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India, Deutsche Telekom*

(Replaces S5-245669)

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

**S5-245675 Rel-19 pCR 28.867 Conclusions and Recommendations**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

**Decision:** The document was **revised to S5-246026**.

**S5-246026 Rel-19 pCR 28.867 Conclusions and Recommendations**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

(Replaces S5-245675)

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

**S5-245697 Rel-19 pCR 28.867 Feedback Management solutions**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India*

**Decision:** The document was **revised to S5-246022**.

**S5-246022 Rel-19 pCR 28.867 Feedback Management solutions**

*Type: pCR For: Agreement  
 28.867 v0.4.1  
 Source: Samsung R&D Institute India, Deutsche Telekom*

(Replaces S5-245697)

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

**S5-245756 pCR TR 28.871 Add alternative solution for discovery of management capabilities**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson, Deutsche Telekom*

**Discussion:**

Huawei: solution 2 is not needed.

Keep open

merge into 6065

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

**S5-245757 pCR TR 28.867 Fix alignment with ACCL model**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Ericsson, Deutsche Telekom*

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

**S5-245758 pCR TR 28.867 Add solution for CCL co-ordination and conflict handling**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Ericsson, Deutsche Telekom*

**Discussion:**

NTT DOCOMO: rename to child list

**Decision:** The document was **revised to S5-246014**.

**S5-246014 pCR TR 28.867 Add solution for CCL co-ordination and conflict handling**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: Ericsson, Deutsche Telekom*

(Replaces S5-245758)

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

**S5-245803 pCR TR 28.867 Add potential requirements and a potential solution for CCL for fault mgmt**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S5-246025**.

**S5-246025 pCR TR 28.867 Add potential requirements and a potential solution for CCL for fault mgmt**

*Type: pCR For: Approval  
 28.867 v0.4.1  
 Source: NTT DOCOMO, Deutsche Telekom*

(Replaces S5-245803)

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

**S5-245959 Draft TR 28.867**

*Type: draft TR For: Approval  
 28.867 v0.5.0  
 Source: Nokia*

**Decision:** The document was **email approval**.

#### 6.19.5 Study on management aspects of Network Digital Twin

**S5-245282 pCR TR 28.915 Evalutation of potential solution for UC11**

*Type: pCR For: (not specified)  
 28.915 v1.0.1  
 Source: Huawei Technologies R&D UK*

**Discussion:**

Ericsson & Nokia: the solution is not complete

**Decision:** The document was **revised to S5-246046**.

**S5-246046 pCR TR 28.915 Evalutation of potential solution for UC11**

*Type: pCR For: -  
 28.915 v1.0.1  
 Source: Huawei Technologies R&D UK*

(Replaces S5-245282)

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

**S5-245283 pCR TR 28.915 Update configuration verification**

*Type: pCR For: (not specified)  
 28.915 v1.0.1  
 Source: Huawei Technologies R&D UK*

**Discussion:**

NTT: not clear why time synch is needed.

Nokia: req. 3 is covered by req. 1 & 2

**Decision:** The document was **revised to S5-246042**.

**S5-246042 pCR TR 28.915 Update configuration verification**

*Type: pCR For: -  
 28.915 v1.0.1  
 Source: Huawei Technologies R&D UK*

(Replaces S5-245283)

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

**S5-245324 pCR TR 28.915 Add an example for nested NDTs**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

**Discussion:**

Lenovo & ZTE: offline comments

DT: not so clear why we standardize

Ericsson objected.

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

**S5-245325 pCR TR 28.915 Conclusion and recommendation for using NDT to generate ML training data**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

**Discussion:**

Ericsson: want a rephrasal

**Decision:** The document was **revised to S5-246047**.

**S5-246047 pCR TR 28.915 Conclusion and recommendation for using NDT to generate ML training data**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

(Replaces S5-245325)

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

**S5-245326 pCR TR 28.915 Update the relations between NDT and network automation functions**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246267**.

**S5-246267 pCR TR 28.915 Update the relations between NDT and network automation functions**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

(Replaces S5-245326)

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

**S5-245327 pCR TR 28.915 Clean up for wordings**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

**Discussion:**

keep open

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

**S5-245368 Rel-19 pCR 28.915 Add evaluation of solution for emergency preparedness**

*Type: pCR For: Approval  
 28.915 v1.0.0  
 Source: Huawei*

**Discussion:**

+Nokia

**Decision:** The document was **revised to S5-246048**.

**S5-246048 Rel-19 pCR 28.915 Add evaluation of solution for emergency preparedness**

*Type: pCR For: Approval  
 28.915 v1.0.0  
 Source: Huawei, Nokia*

(Replaces S5-245368)

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

**S5-245393 Add the evaluation, conclusion and recommendation for TR 28.915**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: China Mobile*

**Discussion:**

merged into 6052

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

**S5-245394 Add the solution of 5G LAN topology visualization and user plane traffic analysis for TR28.915**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: China Mobile*

**Discussion:**

Ericsson disagreed.

**Decision:** The document was **revised to S5-246044**.

**S5-246044 Add the solution of 5G LAN topology visualization and user plane traffic analysis for TR28.915**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: China Mobile*

(Replaces S5-245394)

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

**S5-245398 Presentation sheet of TR 28.915 for SA Approval**

*Type: TS or TR cover For: Approval  
 28.915 v1.0.1  
 Source: China Mobile*

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

**S5-245414 Rel-19 DP 28.915 DP on NDT Normative work scope**

*Type: discussion For: Endorsement  
 28.915 v..  
 Source: Nokia*

**Discussion:**

Ericsson: we should concsider it as a black box.

Huawei supported Samsung's opinion.

Merge 5393 and 5695

**Decision:** The document was **revised to S5-246051**.

**S5-246051 Rel-19 DP 28.915 DP on NDT Normative work scope**

*Type: discussion For: Endorsement  
 28.915 v..  
 Source: Nokia*

(Replaces S5-245414)

**Discussion:**

Samsung objected.

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

**S5-245415 Rel-19 pCR TR28.915 Conclusions and Recommendations**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246052**.

**S5-246052 Rel-19 pCR TR28.915 Conclusions and Recommendations**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Nokia*

(Replaces S5-245415)

**Discussion:**

needs update

Samsung & Ericsson disagreed to a further revision to reinstate parts of cl.6.

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

**S5-245439 Rel-19 pCR 28.915 basic concepts**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246269**.

**S5-246269 Rel-19 pCR 28.915 basic concepts**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Nokia*

(Replaces S5-245439)

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

**S5-245458 pCR TR 28.915 Add evaluation for configuration verification**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei*

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

**S5-245459 pCR TR 28.915 Add evaluation of signaling storm analysis**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-246049**.

**S5-246049 pCR TR 28.915 Add evaluation of signaling storm analysis**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: Huawei, China Mobile*

(Replaces S5-245459)

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

**S5-245557 pCR 28.915 Add solution for NDT visualization**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: HUAWEI, CMCC*

**Discussion:**

DT: it is unclear about the visualization

**Decision:** The document was **revised to S5-246045**.

**S5-246045 pCR 28.915 Add solution for NDT visualization**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: HUAWEI, CMCC*

(Replaces S5-245557)

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

**S5-245664 Rel-19 pCR TR 28.858 Update Solution for Nested NDT**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: ZTE Corporation*

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

**S5-245691 Rel-19 pCR 28.915 NDT Assisted Network Configuration Generation based on Performance Monitoring**

*Type: pCR For: Agreement  
 28.915 v1.0.1  
 Source: Samsung R&D Institute India, NTT DOCOMO*

**Discussion:**

NTT DOCOMO was added as an author

**Decision:** The document was **revised to S5-246270**.

**S5-246270 Rel-19 pCR 28.915 NDT Assisted Network Configuration Generation based on Performance Monitoring**

*Type: pCR For: Agreement  
 28.915 v1.0.1  
 Source: Samsung R&D Institute India, NTT DOCOMO*

(Replaces S5-245691)

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

**S5-245693 Rel-19 pCR 28.915 Evaluation of Inducement**

*Type: pCR For: Agreement  
 28.915 v1.0.1  
 Source: Samsung R&D Institute India*

**Decision:** The document was **revised to S5-246050**.

**S5-246050 Rel-19 pCR 28.915 Evaluation of Inducement**

*Type: pCR For: Agreement  
 28.915 v1.0.1  
 Source: Samsung R&D Institute India*

(Replaces S5-245693)

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

**S5-245695 Rel-19 pCR 28.915 Conclusions**

*Type: pCR For: Agreement  
 28.915 v1.0.1  
 Source: Samsung R&D Institute India*

**Discussion:**

merged into 6052

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

**S5-245839 Rel-19 pCR TR 28.915 Update Solution for Nested NDT**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: ZTE Corporation*

**Discussion:**

Ericsson does not support. Not clear on basic NDT.

**Decision:** The document was **revised to S5-246043**.

**S5-246043 Rel-19 pCR TR 28.915 Update Solution for Nested NDT**

*Type: pCR For: Approval  
 28.915 v1.0.1  
 Source: ZTE Corporation*

(Replaces S5-245839)

**Discussion:**

Huawei objected

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

**S5-245960 Draft TR 28.915**

*Type: draft TR For: Approval  
 28.915 v1.1.0  
 Source: CMCC*

**Decision:** The document was **email approval**.

#### 6.19.6 Study on Cloud Aspects of Management and Orchestration

**S5-245347 DP on observations and issues for using of VNF generic OAM functions in SBMA**

*Type: pCR For: Endorsement  
 28.869 v1.0.1  
 Source: Huawei, Nokia,Deutsche Telekom*

**Discussion:**

several comments from E///.

NTT DOCOMO commented that before the matter was clear and now it's again not clear.

Discussion between Nokia, NTT DOCOMO, and x.

SA5 Chair: we need to define the 2 options.

E/// need to define virtualization dependent.

Option 1: generic OAM to manage Param X+Y; Opt2, Opt.3.

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

**S5-245348 pCR TR 28.869 Add potential deployment scenario for using of VNF generic OAM functions in SBMA**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Huawei, Nokia, Deutsche Telekom*

**Decision:** The document was **revised to S5-246240**.

**S5-246240 pCR TR 28.869 Add potential deployment scenario for using of VNF generic OAM functions in SBMA**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Huawei, Nokia, Deutsche Telekom, NTT DOCOMO*

(Replaces S5-245348)

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

**S5-245349 pCR TR 28.869 Update Use cases for use of VNF generic OAM functions**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Huawei, Nokia, Deutsche Telekom*

**Decision:** The document was **revised to S5-246241**.

**S5-246241 pCR TR 28.869 Update Use cases for use of VNF generic OAM functions**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Huawei, Nokia, Deutsche Telekom*

(Replaces S5-245349)

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

**S5-245369 Rel-19 pCR 28.869 Add solution for specification of architecture**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Huawei*

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

**S5-245446 pCR TR 28.869 remove editor note and adopt to new concept in Annex D**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

merge with 5813

NTT DOCOMO: note is not needed

remove Editor's notes

**Decision:** The document was **revised to S5-246123**.

**S5-246123 pCR TR 28.869 remove editor note and adopt to new concept in Annex D**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-245446)

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

**S5-245447 pCR TR 28.869 remove editor note and adopt to new concept in Annex E**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

offline comments from Rakuten

merge with 5814

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

**S5-245448 pCR TR 28.869 remove editor note and adopt to new concept in Annex F**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

merge with 6245

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

**S5-245449 pCR TR 28.869 remove editor note and adopt to new concept in use case 5.2.4**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Decision:** The document was **revised to S5-246007**.

**S5-246007 pCR TR 28.869 remove editor note and adopt to new concept in use case 5.2.4**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-245449)

**Decision:** The document was **revised to S5-246297**.

**S5-246297 pCR TR 28.869 remove editor note and adopt to new concept in use case 5.2.4**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA, Rakuten Mobile*

(Replaces S5-246007)

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

**S5-245450 pCR TR 28.869 remove editor note and adopt to new concept in use case 5.2.5**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

ovelaps with 5849 and 5555

**Decision:** The document was **revised to S5-246121**.

**S5-246121 pCR TR 28.869 remove editor note and adopt to new concept in use case 5.2.5**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA, Rakuten Mobile*

(Replaces S5-245450)

**Discussion:**

5849 merged into here

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

**S5-245451 pCR TR 28.869 conclusion on management data streaming based on message bus**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-245528 pCR TR 28.869 Add evaluation of solutions for LCM of NF Deployment use case**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Decision:** The document was **revised to S5-246075**.

**S5-246075 pCR TR 28.869 Add evaluation of solutions for LCM of NF Deployment use case**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

(Replaces S5-245528)

**Discussion:**

NTT DOCOMO objcted.

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

**S5-245529 pCR TR 28.869 Add evaluation of solutions for data streaming for cloud native network function use case**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Discussion:**

needs more discussion.

**Decision:** The document was **revised to S5-246076**.

**S5-246076 pCR TR 28.869 Add evaluation of solutions for data streaming for cloud native network function use case**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

(Replaces S5-245529)

**Discussion:**

Ericsson objected

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

**S5-245530 pCR TR 28.869 Add conclusions and recommendations for WT-2**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

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

**S5-245545 pCR TR 28.869 conclusion on use of industry solutions for LCM of NF Deployment**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

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

**S5-245553 pCR TR 28.869 Add evaluation of solution for creation of a NF deployment instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Decision:** The document was **revised to S5-246243**.

**S5-246243 pCR TR 28.869 Add evaluation of solution for creation of a NF deployment instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

(Replaces S5-245553)

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

**S5-245554 pCR TR 28.869 Add evaluation of solutions for modification of CNF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Decision:** The document was **revised to S5-245850**.

**S5-245555 pCR TR 28.869 Add evaluation of solutions for termination of CNF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Discussion:**

Huawei: conclusions and evaluations are postponed to the next meeting.

Nokia, Ericsson and NTT DOCOMO offline comments

**Decision:** The document was **revised to S5-246122**.

**S5-246122 pCR TR 28.869 Add evaluation of solutions for termination of CNF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

(Replaces S5-245555)

**Discussion:**

4. change of 5849 merged into here

Ericsson objected

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

**S5-245671 pCR terminology related ENs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

**Discussion:**

E///: no need for the change

Nokia: 4.th change has to be done.

**Decision:** The document was **revised to S5-246005**.

**S5-246005 pCR terminology related ENs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

(Replaces S5-245671)

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

**S5-245674 pCR VNF Configuration management ENs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

**Discussion:**

Nokia offline comments.

Should be postponed to the next meeting.

**Decision:** The document was **revised to S5-246117**.

**S5-246117 pCR VNF Configuration management ENs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

(Replaces S5-245674)

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

**S5-245676 pCR addressing Annexes\_ENs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

**Decision:** The document was **revised to S5-246242**.

**S5-246242 pCR addressing Annexes\_ENs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

(Replaces S5-245676)

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

**S5-245677 pCR note for data streaming services**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

**Decision:** The document was **revised to S5-246244**.

**S5-246244 pCR note for data streaming services**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

(Replaces S5-245677)

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

**S5-245678 pCR location information in NFV**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

**Decision:** The document was **revised to S5-246246**.

**S5-246246 pCR location information in NFV**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC..*

(Replaces S5-245678)

**Discussion:**

Ericsson objected

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

**S5-245732 pCR 28.869 VNF traffic mgmt solution and evaluation**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC, China Mobile*

**Discussion:**

NTT DOCOMO: postpone to the next meeting.

Huawei disagree with change #1.

**Decision:** The document was **revised to S5-246118**.

**S5-246118 pCR 28.869 VNF traffic mgmt solution and evaluation**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: NTT DOCOMO INC, China Mobile*

(Replaces S5-245732)

**Discussion:**

Nokia objected

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

**S5-245770 pCR Add Evaluation of solutions for Cloud-native VNF policy management**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: China Mobile,NTT DOCOMO*

**Discussion:**

NTT DOCOMO: postpone to the next meeting.

Ericsson & Nokia offline comments

**Decision:** The document was **revised to S5-246119**.

**S5-246119 pCR Add Evaluation of solutions for Cloud-native VNF policy management**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: China Mobile,NTT DOCOMO*

(Replaces S5-245770)

**Discussion:**

Nokia objected

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

**S5-245771 pCR add a solution and evaluation of solutions for Cloud-native VNF traffic mgmt**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: China Mobile,NTT DOCOMO*

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

**S5-245773 pCR Add Potential solution for WT-3 Placement of cloud native NFs**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: China Mobile*

**Discussion:**

keep open

Ericsson objected

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

**S5-245774 pCR Add Conclusions and recommendations**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: China Mobile,NTT DOCOMO*

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

**S5-245810 Rel-19 pCR TR 28.869 Resolve editor's note on the impact of the cloud-native design principles on the 3GPP management system**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

merged onto 6005

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

**S5-245811 Rel-19 pCR TR 28.869 Add conclusions and recommendations to the use of industry solutions for management of cloud-native network functions**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

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

**S5-245812 Rel-19 pCR TR 28.869 Removing unnecessary statement regarding VNF generic OAM functions consumers and correcting the sub-clause numbering**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

NTT DOCOMO offline comments

no need for revision

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

**S5-245813 Rel-19 pCR TR 28.869 Resolve editor's note in Annex D by updating the content and the related figure**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

merged into 6123

NTT DOCOMO: NF deployment requests are not clear

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

**S5-245814 Rel-19 pCR TR 28.869 Resolve editor's note in Annex E by updating the content and the related figure**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

**Decision:** The document was **revised to S5-246124**.

**S5-246124 Rel-19 pCR TR 28.869 Resolve editor's note in Annex E by updating the content and the related figure**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

(Replaces S5-245814)

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

**S5-245815 Rel-19 pCR TR 28.869 Resolve editor's note in Annex F by updating the content and the related figure**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

**Decision:** The document was **revised to S5-246245**.

**S5-246245 Rel-19 pCR TR 28.869 Resolve editor's note in Annex F by updating the content and the related figure**

*Type: pCR For: Approval  
 28.869 v1.0.0  
 Source: Nokia Hungary*

(Replaces S5-245815)

**Discussion:**

Rakuten objected

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

**S5-245848 pCR TR 28.869 Add details for modification of NF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Discussion:**

merged into 6007(-8)

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

**S5-245849 pCR TR 28.869 Add details for termination of NF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

**Discussion:**

merged into 6121

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

**S5-245850 pCR TR 28.869 Add evaluation of solutions for modification of CNF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

(Replaces S5-245554)

**Decision:** The document was **revised to S5-246008**.

**S5-246008 pCR TR 28.869 Add evaluation of solutions for modification of CNF instance**

*Type: pCR For: Approval  
 28.869 v1.0.1  
 Source: Rakuten Mobile, Inc*

(Replaces S5-245850)

**Discussion:**

Nokia objected

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

**S5-245961 Draft TR 28.869**

*Type: draft TR For: Approval  
 28.869 v1.1.0  
 Source: CMCC*

**Decision:** The document was **email approval**.

#### 6.19.7 Study on Enablers for Security Monitoring

#### 6.19.8 Study on Service Based Management Architecture enhancement phase 3

**S5-245294 pCR TR 28.871 Add SBMA concepts and background**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei*

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

**S5-245295 pCR TR 28.871 Add evaluation and conclusion for Support IOCs in SBMA**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei*

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

**S5-245350 pCR TR 28.871 Update solution for Discovery of management capabilities of MnS supported by a MnS Producer**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-246065**.

**S5-246065 pCR TR 28.871 Update solution for Discovery of management capabilities of MnS supported by a MnS Producer**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei, Deutsche Telekom, Ericsson, Nokia*

(Replaces S5-245350)

**Discussion:**

d3

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

**S5-245351 pCR TR 28.871 Add conclusion for schema reference enhancements**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei*

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

**S5-245352 pCR TR 28.871 Add conclusion for Overview of management capabilities and corresponding Solution Sets**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246060**.

**S5-246060 pCR TR 28.871 Add conclusion for Overview of management capabilities and corresponding Solution Sets**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei*

(Replaces S5-245352)

**Discussion:**

d1

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

**S5-245353 pCR TR 28.871 Usage of MnS Registry NRM fragment for MnS Registry and Discovery**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-246066**.

**S5-246066 pCR TR 28.871 Usage of MnS Registry NRM fragment for MnS Registry and Discovery**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-245353)

**Discussion:**

d2

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

**S5-245391 Rel-19 pCR TR 28.871 Reliable notification transfer**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-246063**.

**S5-246063 Rel-19 pCR TR 28.871 Reliable notification transfer**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Hungary Ltd*

(Replaces S5-245391)

**Discussion:**

d1

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

**S5-245392 pCR TR 28.871 Alarm definition - filtering**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Hungary Ltd*

**Decision:** The document was **revised to S5-246064**.

**S5-246064 pCR TR 28.871 Alarm definition - filtering**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Hungary Ltd*

(Replaces S5-245392)

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

**S5-245755 pCR TR 28.871 Rapporteur clean-up.docx**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246061**.

**S5-246061 pCR TR 28.871 Rapporteur clean-up.docx**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson*

(Replaces S5-245755)

**Discussion:**

d2

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

**S5-245777 pCR TR 28.871 Add use case, reqs, potential solutions and evaluation (management model decoupling)**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Inc.*

(Replaces S5-244335)

**Discussion:**

Nokia: dealing with multiple object instance versions.

**Decision:** The document was **revised to S5-246067**.

**S5-246067 pCR TR 28.871 Add use case, reqs, potential solutions and evaluation (management model decoupling)**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Inc., Huawei, Deutsche Telekom, Nokia*

(Replaces S5-245777)

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

**S5-245782 pCR TR 28.871 Add evaluation of potential solutions (schema retrieval support)**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Inc.*

**Decision:** The document was **revised to S5-246062**.

**S5-246062 pCR TR 28.871 Add evaluation of potential solutions (schema retrieval support)**

*Type: pCR For: Approval  
 28.871 v1.0.1  
 Source: Ericsson Inc.*

(Replaces S5-245782)

**Discussion:**

d2

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

**S5-245962 Draft TR 28.871**

*Type: draft TR For: Approval  
 28.871 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **email approval**.

#### 6.19.9 Study on Management of planned configurations (completed)

##### 6.19.9.1 Management of planned configurations

**S5-245426 Input Draft TS 28.572 Management of planned configurations**

*Type: draft TS For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Discussion:**

Ericsson: is not a skeleton.

SA5 Vice Chair: management and orchestration to be added in the title.

**Decision:** The document was **revised to S5-246079**.

**S5-246079 Input Draft TS 28.572 Management of planned configurations**

*Type: draft TS For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245426)

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

**S5-245427 pCR 28.572 Add skeleton**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246080**.

**S5-246080 pCR 28.572 Add skeleton**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245427)

**Discussion:**

d1

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

**S5-245428 pCR 28.572 Add requirements for plans**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246081**.

**S5-246081 pCR 28.572 Add requirements for plans**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245428)

**Discussion:**

d1

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

**S5-245429 pCR 28.572 Add requirements for transactions**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246082**.

**S5-246082 pCR 28.572 Add requirements for transactions**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245429)

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

**S5-245430 pCR 28.572 Add requirements for validation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246083**.

**S5-246083 pCR 28.572 Add requirements for validation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245430)

**Discussion:**

d1

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

**S5-245431 pCR 28.572 Add requirements for activation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246084**.

**S5-246084 pCR 28.572 Add requirements for activation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245431)

**Discussion:**

d1

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

**S5-245432 pCR 28.572 Add content for plans**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246085**.

**S5-246085 pCR 28.572 Add content for plans**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245432)

**Discussion:**

d1

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

**S5-245433 pCR 28.572 Add content for transactions**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Discussion:**

Offline comments from Ericsson.

**Decision:** The document was **revised to S5-246086**.

**S5-246086 pCR 28.572 Add content for transactions**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245433)

**Discussion:**

d1

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

**S5-245434 pCR 28.572 Add content for validation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-246087**.

**S5-246087 pCR 28.572 Add content for validation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245434)

**Discussion:**

d1

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

**S5-245435 pCR 28.572 Add content for activation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Discussion:**

Ericsson offline comments

Discussing fallback plan.

Atomic behaviour for multiple plans needs to be clarified.

**Decision:** The document was **revised to S5-246088**.

**S5-246088 pCR 28.572 Add content for activation**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

(Replaces S5-245435)

**Discussion:**

d1

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

**S5-245436 pCR 28.572 Add examples for the RESTful HTTP-based solution set**

*Type: pCR For: Approval  
 28.572 v0.0.0  
 Source: Nokia*

**Abstract:**

The group is asked to endorse the principles in the clause 3.1 and discuss the YAML file in clause 3.2.

**Discussion:**

Ericsson suggested to note.

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

**S5-245830 DP management of planned configuration**

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

**Discussion:**

rev 1

Samsung: stage 2 is not decided?

Remove the yaml file in 3.2

**Decision:** The document was **revised to S5-246089**.

**S5-246089 DP management of planned configuration**

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

(Replaces S5-245830)

**Discussion:**

d1

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

**S5-245963 Draft TS 28.572**

*Type: draft TS For: Approval  
 28.572 v0.1.0  
 Source: Nokia*

**Decision:** The document was **email approval**.

#### 6.19.10 Data management phase 2

**S5-245354 Rel-19 inputToDraftCR TS 28.622 Add solution for Managing external management data**

*Type: draftCR For: Approval  
 28.622 v19.1.0  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-244801)

**Decision:** The document was **revised to S5-246090**.

**S5-246090 Rel-19 inputToDraftCR TS 28.622 Add solution for Managing external management data**

*Type: draftCR For: Approval  
 28.622 v19.1.0  
 Source: Huawei, Deutsche Telekom, Nokia*

(Replaces S5-245354)

**Discussion:**

d2

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

**S5-245355 Discussion on observations and potential enhancement for management data discovery capability**

*Type: discussion For: Endorsement  
 Source: Huawei, Deutsche Telekom*

**Abstract:**

Following are the detailed proposals to update Management data recovery capability in TS 28.537 and TS 28.622:

Proposal#1: Add requirements to support management data discovery capability with updating TS 28.537 clause to add following two requirements:

REQ-DMSDIS-CON-2: The 3GPP management system shall enable an authorized data consumer to discover what category of management data can be produced by 3GPP management system.

REQ-DMSDIS-CON-3: The 3GPP management system shall enable an authorized data consumer to obtain the reporting methods that are supported for the management data which can be produced by 3GPP management system.

Proposal#2: Update TS 28.622 with following aspects:

- Proposal#2.1 Add a new supportedManagementData IOC to represent MnS producer’s capabilities for management data production and reporting. The new supportedManagementData IOC is name contained by SubNetwork IOC, ManagedElement IOC and ManagedFunction IOC.

- Proposal#2.2 Move the attribute supportedPerfMetricGroups and supportedTraceMetrics from SubNetwork IOC, ManagedElement IOC and ManagedFunction IOC to this new supportedManagementData IOC.

- Proposal#2.3 The new supportedManaggementData IOC needs to describe what categories of management data can be produced and reported by MnS producer.

- Proposal#2.4 The new supportedManagementData IOC needs to describe the associated reporting methods that are supported for the specified trace metrics

**Discussion:**

Nokia: should have a more general discussion on the matter, instead of going case by case.

Ericsson: turn the WID into a SID?

The TR was very clear. Several things have shifted. The discussion paper is reopening things which were agreed before.

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

**S5-245356 Rel-19 inputToDraftCR TS 28.622 Enhance the model for supported managgement data to support management data discovery**

*Type: draftCR For: Agreement  
 28.622 v19.1.0  
 Source: Huawei, Deutsche Telekom*

**Discussion:**

related to 5786

Ericsson: how to model the capabilities

Potential rapporteur call->agreed

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

**S5-245357 Rel-19 inputToDraftCR TS 28.537 Update the description and requirements for clause 6.5 Discovery of management data**

*Type: draftCR For: Agreement  
 28.537 v18.2.0  
 Source: Huawei, Deutsche Telekom*

**Discussion:**

Proposal 1

Need more time.

Proposals are approved.

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

**S5-245501 Discussion on external management data**

*Type: discussion For: Endorsement  
 Source: Nokia*

**Abstract:**

Observation 1: External management data produced by a data source located at or in a 3GPP specified equipment might be assigned to this 3GPP specified equipment.

Observation 2: There is no NRM specified for inventory or network hardware in 5G or SBMA.

Observation 3: "ManagedElement" does not necessarily represent a single location and is therefore not suitable to associate with external management data which is related to a single location.

Observation 4: There might be external management data which is not directly related to a network entity defined in current 3GPP management system and can therefore not be assigned to a managed object instance of the current 3GPP management system.

Observation 5: Some external management data, e.g. weather forecast or traffic forecast, might be related to a geographic area.

Observation 6: In current specified 3GPP management system, geographic areas are not modelled in the NRM.

Observation 7: A geographic area corresponds to a set of managed objects, NFs, or NEs. This set might change over time.

Observation 8: Data related to a geographic area is related to a set of managed objects, NFs, or NEs. One managed object, NF, or NE might be associated to multiple forecasts, i.e. part of multiple sets. This excludes "SubNetwork" IOC as means for grouping.

Observation 9: Weather might impact managed objects, NFs or NEs, even if the corresponding network entity as such is not impacted by the weather physically.

Proposal: Where to include the information about supported external management data in the NRM needs further study.

**Discussion:**

Huawei: capture supported external management data in subnetwork IOC

Ericsson: many info associates with geogr. area need more discussion.

Rapporteur call.

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

**S5-245786 Rel-19 inputToDraftCR TS 28.622 Add supported data reporting capability (stage 2)**

*Type: draftCR For: Approval  
 28.622 v19.1.0  
 Source: Ericsson Inc.*

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

**S5-245787 Rel-19 inputToDraftCR TS 28.623 Add supported data reporting capability (stage 3, yang)**

*Type: draftCR For: Approval  
 28.623 v19.1.0  
 Source: Ericsson Inc.*

**Discussion:**

w/d on Wed at author's request.

Based on offline discussions the stage2 requires further update first.

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

**S5-245969 Rel-19 DraftCR TS 28.622**

*Type: draftCR For: discussion  
 28.622 v19.1.0  
 Source: Nokia*

**Decision:** The document was **email approval**.

**S5-245970 Rel-19 DraftCR TS 28.537 Update the description and requirements for clause 6.5 Discovery of management data**

*Type: draftCR For: discussion  
 28.537 v18.2.0  
 Source: Nokia*

**Discussion:**

reissued

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

**S5-246298 Rel-19 DraftCR TS 28.537**

*Type: draftCR For: discussion  
 28.537 v18.2.0  
 Source: Nokia*

**Abstract:**

for email approval

**Decision:** The document was **for email approval**.

#### 6.19.11 Study on data management regarding subscriptions and reporting (completed)

**S5-245238 Rel-19 CR 28.873\_1900 Remove normative text from the TR**

*Type: CR For: (not specified)  
 28.873 v19.0.0 CR-0001 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-246091**.

**S5-246091 Rel-19 CR 28.873\_1900 Remove normative text from the TR**

*Type: CR For: -  
 28.873 v19.0.0 CR-0001 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245238)

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

##### 6.19.11.1 Data management regarding subscriptions and reporting

#### 6.19.12 5G performance measurements and KPIs phase 4

**S5-245281 Rel-19 CR TS 28.552 Add PMF measurement of network-initiated PLR for ATSSS**

*Type: CR For: Agreement  
 28.552 v19.1.0 CR-0605 Cat: B (Rel-19)  
  
 Source: China Telecom Corporation Ltd., ZTE*

**Abstract:**

Brief description of document content.

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

**S5-245521 Rel-19 CR TS 28.552 Sub optimal Handover Metrics**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0608 Cat: B (Rel-19)  
  
 Source: Nokia*

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

**S5-245522 Rel-18 CR TS 28.552 XR PDU set packet delay measurement**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0609 Cat: B (Rel-19)  
  
 Source: Nokia*

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

**S5-245548 New performance measurements for Reduced Capability (RedCap) Device Early Identification**

*Type: CR For: (not specified)  
 28.552 v19.1.0 CR-0610 Cat: B (Rel-19)  
  
 Source: Apple*

**Abstract:**

New performance measurements for Reduced Capability (RedCap) Device Early Identification

**Discussion:**

rev marks on cover

template 12.3!

Date; >Annex< A

**Decision:** The document was **revised to S5-246068**.

**S5-246068 New performance measurements for Reduced Capability (RedCap) Device Early Identification**

*Type: CR For: -  
 28.552 v19.1.0 CR-0610 rev 1 Cat: B (Rel-19)  
  
 Source: Apple*

(Replaces S5-245548)

**Discussion:**

d1

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

**S5-245689 New performance measurements for eDRX negotiation registration requests and accepts**

*Type: CR For: (not specified)  
 28.552 v19.1.0 CR-0612 Cat: B (Rel-19)  
  
 Source: Apple*

**Abstract:**

New performance measurements for eDRX negotiation registration requests and accepts

**Discussion:**

Korea! +Date.

template 12.3!

>Annex< A

**Decision:** The document was **revised to S5-246069**.

**S5-246069 New performance measurements for eDRX negotiation registration requests and accepts**

*Type: CR For: -  
 28.552 v19.1.0 CR-0612 rev 1 Cat: B (Rel-19)  
  
 Source: Apple*

(Replaces S5-245689)

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

**S5-245692 New performance measurements for UE assistance information with RRM Measurement Relaxation feature usage**

*Type: CR For: (not specified)  
 28.552 v19.1.0 CR-0613 Cat: B (Rel-19)  
  
 Source: Apple*

**Decision:** The document was **revised to S5-246070**.

**S5-246070 New performance measurements for UE assistance information with RRM Measurement Relaxation feature usage**

*Type: CR For: -  
 28.552 v19.1.0 CR-0613 rev 1 Cat: B (Rel-19)  
  
 Source: Apple, Deutsche Telekom*

(Replaces S5-245692)

**Discussion:**

d1

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

**S5-245696 New KPIs for Connected Mode RRM Relaxation Usage rate**

*Type: CR For: (not specified)  
 28.554 v19.1.0 CR-0210 Cat: B (Rel-19)  
  
 Source: Apple*

**Discussion:**

see CRs above.

core X!

**Decision:** The document was **revised to S5-246071**.

**S5-246071 New KPIs for Connected Mode RRM Relaxation Usage rate**

*Type: CR For: -  
 28.554 v19.1.0 CR-0210 rev 1 Cat: B (Rel-19)  
  
 Source: Apple, Deutsche Telekom*

(Replaces S5-245696)

**Discussion:**

d1

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

**S5-245698 New KPIs for Extended DRX Negotiation Success Rate**

*Type: CR For: (not specified)  
 28.554 v19.1.0 CR-0211 Cat: B (Rel-19)  
  
 Source: Apple*

**Decision:** The document was **revised to S5-246072**.

**S5-246072 New KPIs for Extended DRX Negotiation Success Rate**

*Type: CR For: -  
 28.554 v19.1.0 CR-0211 rev 1 Cat: B (Rel-19)  
  
 Source: Apple*

(Replaces S5-245698)

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

**S5-245703 Rel-19 CR 28.552 Correct LTM measurements**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0614 Cat: F (Rel-19)  
  
 Source: Ericsson GmbH Eurolab*

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

**S5-245704 Rel-19 CR 28.554 Update mobility KPI for LTM**

*Type: CR For: Approval  
 28.554 v19.1.0 CR-0212 Cat: B (Rel-19)  
  
 Source: Ericsson GmbH Eurolab*

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

**S5-245705 Rel-19 CR 28.552 Add LTM use case**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0615 Cat: B (Rel-19)  
  
 Source: Ericsson GmbH Eurolab*

**Decision:** The document was **revised to S5-246073**.

**S5-246073 Rel-19 CR 28.552 Add LTM use case**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0615 rev 1 Cat: B (Rel-19)  
  
 Source: Ericsson GmbH Eurolab*

(Replaces S5-245705)

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

#### 6.19.13 5G Advanced NRM features phase 3

**S5-245277 Rel-19 CR TS 28.541 Update 5GC NRM and Network Slicing NRM yaml file to include the missing default values**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1357 Cat: C (Rel-19)  
  
 Source: Huawei*

**Discussion:**

Nokia: add action point for this WI at the end of Rel-19 for stage 3

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

**S5-245297 Rel-19 CR TS 28.541 add max preamble to support msg1 repetition for RACH**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1361 Cat: C (Rel-19)  
  
 Source: Huawei*

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

**S5-245298 Rel-19 CR TS 28.541 add cell coverage configuration to support CCO in RAN3**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1362 Cat: B (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246077**.

**S5-246077 Rel-19 CR TS 28.541 add cell coverage configuration to support CCO in RAN3**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1362 rev 1 Cat: B (Rel-19)  
  
 Source: Huawei*

(Replaces S5-245298)

**Discussion:**

d1

remove RAN3 from title & cover

Reissued as S5-246277 because of title change

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

**S5-246277 Rel-19 CR TS 28.541 add cell coverage configuration to support CCO**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1390 Cat: B (Rel-19)  
  
 Source: Huawei*

**Abstract:**

Reissued from S5-246077 because of title change

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

**S5-245466 Enhance the isUnique property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0440 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245468 TS28.541 Rel19 enhance property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1370 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245470 Alignment of IP Address modeling**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1371 Cat: C (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245471 Alignment of attribute value list with TS29.510 for UPInterfaceType notificationType and supportedDataSets**

*Type: CR For: Approval  
 28.541 v19.1.0 CR-1372 Cat: B (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245534 Rel-19 CR 28.623 Add missing DN type to the table of YANG common types**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0449 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

**Abstract:**

Candidate for block approval

**Decision:** The document was **revised to S5-246078**.

**S5-246078 Rel-19 CR 28.623 Add missing DN type to the table of YANG common types**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0449 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson Hungary Ltd*

(Replaces S5-245534)

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

**S5-245560 Update the isReadOnly property for stage 3 OpenAPI**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0450 Cat: C (Rel-19)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S5-245684 Rel-19 CR 28.538 adding managed services to Edge entities**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0095 Cat: B (Rel-19)  
  
 Source: Samsung R&D Institute India*

**Decision:** The document was **revised to S5-246074**.

**S5-246074 Rel-19 CR 28.538 adding managed services to Edge entities**

*Type: CR For: Agreement  
 28.538 v19.1.0 CR-0095 rev 1 Cat: B (Rel-19)  
  
 Source: Samsung R&D Institute India*

(Replaces S5-245684)

**Discussion:**

d1

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

**S5-245712 Rel-19 CR 28.541 NRM extensions for VMR Ph2**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1383 Cat: B (Rel-19)  
  
 Source: Samsung R&D Institute India*

**Discussion:**

Ericsson: sent offline comments

Huawei: pospone until RAN have some results

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

**S5-245797 Rel-19 CR TS 28.541 Add new OperatorCU and NRCellOperatorCU for MOCN**

*Type: CR For: Agreement  
 28.541 v19.1.0 CR-1384 Cat: B (Rel-19)  
  
 Source: China Unicom*

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

#### 6.19.14 Subscriber and Equipment Trace and QoE collection management

**S5-245296 Rel-19 CR TS 32.422 updated procedure for Trace session activation for RRC reporting in NG-RAN**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0486 Cat: F (Rel-19)  
  
 Source: Huawei*

**Decision:** The document was **revised to S5-246104**.

**S5-246104 Rel-19 CR TS 32.422 updated procedure for Trace session activation for RRC reporting in NG-RAN**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0486 rev 1 Cat: F (Rel-19)  
  
 Source: Huawei, Ericsson*

(Replaces S5-245296)

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

**S5-245512 Rel-19 CR 28.622 Corrections for tracing of RRC reports**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0473 Cat: F (Rel-19)  
  
 Source: Nokia*

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

**S5-245706 Rel-19 CR 32.421 Corrections of RRC reporting**

*Type: CR For: Approval  
 32.421 v19.1.0 CR-0144 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S5-245707 Rel-19 CR 32.422 Corrections to RRC reporting**

*Type: CR For: Approval  
 32.422 v19.0.0 CR-0498 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S5-245708 Rel-19 CR 28.622 Corrections of RRC reporting**

*Type: CR For: Approval  
 28.622 v19.1.0 CR-0477 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S5-245709 Rel-19 CR 28.623 Corrections on RRC reporting**

*Type: CR For: Approval  
 28.623 v19.1.0 CR-0457 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

#### 6.19.15 Study on Management Aspects of NTN Phase 2

**S5-245276 Rel-19 pCR TR 28.874 Rapportuer cleanup**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: CATT*

**Discussion:**

Ericsson: potential requirements no need to change from shall to should.

**Decision:** The document was **revised to S5-246092**.

**S5-246092 Rel-19 pCR TR 28.874 Rapportuer cleanup**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: CATT*

(Replaces S5-245276)

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

**S5-245328 DP on using plan management to support time based configuration for NTN scenarios**

*Type: discussion For: Endorsement  
 28.874 v..  
 Source: Huawei*

**Abstract:**

It proposes to use plan management solution described in TR 28.872 [1] for following time based NTN configuration related use case and requirements:..

**Discussion:**

Samsung: do not like to use 'plan'

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

**S5-245329 pCR TR 28.874 Add plan management solution for NTN scenarios**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246093**.

**S5-246093 pCR TR 28.874 Add plan management solution for NTN scenarios**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Huawei*

(Replaces S5-245329)

**Discussion:**

d1

Samsung needed more time.

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

**S5-245330 pCR TR 28.874 Evaluation for NTN neighbour cell management**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246094**.

**S5-246094 pCR TR 28.874 Evaluation for NTN neighbour cell management**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Huawei*

(Replaces S5-245330)

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

**S5-245331 pCR TR 28.874 Overview of management enhancement supporting new NTN features**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Huawei*

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

**S5-245361 pCR 28.874-101 Complement potential solutions for Management of connections and associations**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Ericsson LM*

**Discussion:**

SA5 Chair: update the note

**Decision:** The document was **revised to S5-246095**.

**S5-246095 pCR 28.874-101 Complement potential solutions for Management of connections and associations**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Ericsson LM*

(Replaces S5-245361)

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

**S5-245389 pCR TR 28.874 Add potential solutions on configuration of the NFs supported S&F operation**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: China Telecomunication Corp.*

**Decision:** The document was **revised to S5-246096**.

**S5-246096 pCR TR 28.874 Add potential solutions on configuration of the NFs supported S&F operation**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: China Telecomunication Corp.*

(Replaces S5-245389)

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

**S5-245425 pCR TR 28.874 Update the Use Case#1 of UE-Satellite-UE communication**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: China Telecomunication Corp.*

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

**S5-245672 pCR 28.874-101 Update evaluations**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Ericsson LM*

**Decision:** The document was **revised to S5-246097**.

**S5-246097 pCR 28.874-101 Update evaluations**

*Type: pCR For: Approval  
 28.874 v1.0.1  
 Source: Ericsson LM*

(Replaces S5-245672)

**Discussion:**

d1

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

**S5-245951 Draft TR 28.874**

*Type: draft TR For: Approval  
 28.874 v1.1.0  
 Source: CATT*

**Decision:** The document was **email approval**.

#### 6.19.16 Study on management of IAB nodes

**S5-245443 Presentation of TR 28.875 to SA for information**

*Type: TS or TR cover For: Approval  
 28.875 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

keep open

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

**S5-245444 pCR TR 28.875 conclusion for IAB node configuration**

*Type: pCR For: (not specified)  
 28.875 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Decision:** The document was **revised to S5-246098**.

**S5-246098 pCR TR 28.875 conclusion for IAB node configuration**

*Type: pCR For: -  
 28.875 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-245444)

**Discussion:**

d1

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

**S5-245445 pCR TR 28.875 conclusion for IAB node OAM connectivity**

*Type: pCR For: Approval  
 28.875 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

**Discussion:**

same as 5444

**Decision:** The document was **revised to S5-246099**.

**S5-246099 pCR TR 28.875 conclusion for IAB node OAM connectivity**

*Type: pCR For: Approval  
 28.875 v1.0.1  
 Source: Ericsson Telecomunicazioni SpA*

(Replaces S5-245445)

**Discussion:**

d2

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

**S5-245952 Draft TR 28.875**

*Type: draft TR For: Approval  
 28.875 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **email approval**.

#### 6.19.17 Study on management aspects of RedCap feature

**S5-245227 pCR TR 28.876 update some unclear descriptions**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: AsiaInfo*

**Abstract:**

In 3GPP TR 28.876 [1] clause 5.1.1, the description of "see also clause 5.2.2.4.2" is unclear and may cause misunderstandings, this contribution updated it.

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

**S5-245245 pCR TR 28.876 Add evaluation and conclusions for use case #5**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: AsiaInfo*

**Abstract:**

Add evaluation and conclusions for use case #5 to maintain the integrity of the research report 3GPP TR 28.876.

**Discussion:**

stidy item maybe not allowed.

**Decision:** The document was **revised to S5-246100**.

**S5-246100 pCR TR 28.876 Add evaluation and conclusions for use case #5**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: AsiaInfo*

(Replaces S5-245245)

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

**S5-245358 pCR TR 28.876 Update Use Case#1 NG-RAN configuration to support RedCap and Non-RedCap UEs co-existence scenario**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: Huawei, China Unicom*

**Decision:** The document was **revised to S5-246101**.

**S5-246101 pCR TR 28.876 Update Use Case#1 NG-RAN configuration to support RedCap and Non-RedCap UEs co-existence scenario**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: Huawei, China Unicom*

(Replaces S5-245358)

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

**S5-245359 pCR TR 28.876 Add missing definitions and clarifications**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: Huawei, China Unicom*

**Decision:** The document was **revised to S5-246102**.

**S5-246102 pCR TR 28.876 Add missing definitions and clarifications**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: Huawei, China Unicom*

(Replaces S5-245359)

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

**S5-245710 pCR TR 28.876 Add potential solution, evaluation and conclusion for EE KPI of RedCap**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: China Unicom*

**Discussion:**

Ericsson: this KPI can't achieve the requirements related to this use case.

**Decision:** The document was **revised to S5-246103**.

**S5-246103 pCR TR 28.876 Add potential solution, evaluation and conclusion for EE KPI of RedCap**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: China Unicom*

(Replaces S5-245710)

**Discussion:**

Samsung objected

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

**S5-245724 Rel-19 pCR TR28.876 Update requirement and add potential solution for Inactive RedCap UEs**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: ZTE Corporation*

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

**S5-245725 Rel-19 pCR TR28.876 Add conclusion and recommendation for resource load of RedCap service**

*Type: pCR For: Approval  
 28.876 v1.0.1  
 Source: ZTE Corporation*

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

**S5-245953 Draft TR 28.876**

*Type: draft TR For: Approval  
 28.876 v1.1.0  
 Source: AsiaInfo*

**Decision:** The document was **email approval**.

**S5-246105 Presentation sheet for approval of 28.876**

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

**Discussion:**

Samsung objected

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

#### 6.19.18 Study on Enhancement of Management Aspects related to NWDAF Phase 2 (completed)

##### 6.19.18.1 Enhancement of Management Aspects related to NWDAF Phase 2

**S5-245497 Rel-19 CR 28.552 Add measurements related to NWDAF roaming analytics**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0606 Cat: B (Rel-19)  
  
 Source: Nokia*

**Discussion:**

3GPP styles to be applied

cover ver 12.3!

**Decision:** The document was **revised to S5-246106**.

**S5-246106 Rel-19 CR 28.552 Add measurements related to NWDAF roaming analytics**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0606 rev 1 Cat: B (Rel-19)  
  
 Source: Nokia*

(Replaces S5-245497)

**Discussion:**

d1

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

**S5-245498 Rel-19 CR 28.552 Add use case on NWDAF roaming analytics**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0607 Cat: B (Rel-19)  
  
 Source: Nokia*

**Discussion:**

3GPP styles to be applied

cover ver 12.3!

**Decision:** The document was **revised to S5-246107**.

**S5-246107 Rel-19 CR 28.552 Add use case on NWDAF roaming analytics**

*Type: CR For: Approval  
 28.552 v19.1.0 CR-0607 rev 1 Cat: B (Rel-19)  
  
 Source: Nokia*

(Replaces S5-245498)

**Discussion:**

d1

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

#### 6.19.19 Study on Management of Network Sharing Phase 3

**S5-245789 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #1**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

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

**S5-245790 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #2**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

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

**S5-245792 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #3**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

**Discussion:**

Ericsson offline comments

rev 1

**Decision:** The document was **revised to S5-246108**.

**S5-246108 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #3**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

(Replaces S5-245792)

**Discussion:**

d1

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

**S5-245794 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #4**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

**Discussion:**

Ericsson offline comments

rev 1

**Decision:** The document was **revised to S5-246109**.

**S5-246109 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #4**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

(Replaces S5-245794)

**Discussion:**

d1

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

**S5-245795 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #5**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

**Discussion:**

Ericsson offline comments

rev 1

**Decision:** The document was **revised to S5-246110**.

**S5-246110 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #5**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

(Replaces S5-245795)

**Discussion:**

d1

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

**S5-245796 pCR TR 28.878 Add evaluation, conclusion and recommendation for Use Case #6**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: China Unicom*

**Discussion:**

Ericsson offline comments

First it seemed rev 1, but then not needed.

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

**S5-245831 Rel-19 pCR TR28.878 Editorial corrections**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: ZTE Corporation*

**Discussion:**

Ericsson offline comments

rev 1

**Decision:** The document was **revised to S5-246112**.

**S5-246112 Rel-19 pCR TR28.878 Editorial corrections**

*Type: pCR For: Approval  
 28.878 v1.0.1  
 Source: ZTE Corporation*

(Replaces S5-245831)

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

**S5-245954 Draft TR 28.878**

*Type: draft TR For: Approval  
 28.878 v1.1.0  
 Source: China Unicom*

**Decision:** The document was **email approval**.

#### 6.19.20 Study on energy efficiency and energy saving aspects of 5G networks and services

**S5-245289 pCR TR 28.880 Update potential solution of EE KPIs evaluated from network data traffic performance dimension**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

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

**S5-245290 pCR TR 28.880 Potential solution of EE KPIs evaluated from network quality performance dimension**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246113**.

**S5-246113 pCR TR 28.880 Potential solution of EE KPIs evaluated from network quality performance dimension**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245290)

**Discussion:**

d1

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

**S5-245291 pCR TR 28.880 Update potential solution of EE KPIs evaluated from availability performance dimension**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246114**.

**S5-246114 pCR TR 28.880 Update potential solution of EE KPIs evaluated from availability performance dimension**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245291)

**Discussion:**

Samsung objected

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

**S5-245292 pCR TR 28.880 Evaluation of potential solutions for multi-dimensional energy efficiency metrics**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246115**.

**S5-246115 pCR TR 28.880 Evaluation of potential solutions for multi-dimensional energy efficiency metrics**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245292)

**Discussion:**

Ericsson objected

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

**S5-245293 pCR TR 28.880 Conclusion and recommendation for multi-dimensional energy efficiency metrics**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

**Discussion:**

conclusion for the last 3 Docs.

**Decision:** The document was **revised to S5-246116**.

**S5-246116 pCR TR 28.880 Conclusion and recommendation for multi-dimensional energy efficiency metrics**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245293)

**Discussion:**

Ericsson objected

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

**S5-245332 pCR TR 28.880 Conclusion and recommendation for renewable energy based LBO**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

**Discussion:**

Nokia: it does not make sense to add this attribute here, if RAN doesn't use this.

Would be good to send an LS: S5-246028

**Decision:** The document was **revised to S5-246029**.

**S5-246028 LS on renewable energy based LBO**

*Type: LS out For: Approval  
 28.880 v..  
 to RAN3  
 Source: SA3*

**Discussion:**

(Huawei)

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

**S5-246029 pCR TR 28.880 Conclusion and recommendation for renewable energy based LBO**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245332)

**Discussion:**

d1

need more time

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

**S5-245400 pCR TR 28.880 New clause for conclusions and recommendations**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-246027**.

**S5-246027 pCR TR 28.880 New clause for conclusions and recommendations**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-245400)

**Discussion:**

d1

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

**S5-245417 pCR TR 28.880 Updates after the publication of ETSI GS NFV IFA 027 V5.2.1**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei*

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

**S5-245418 pCR TR 28.880 Potential solution for use case 1**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Discussion:**

Nokia disagreed

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

**S5-245419 pCR TR 28.880 Potential solution for use case #3 - Carbon emission of non-split gNB**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246030**.

**S5-246030 pCR TR 28.880 Potential solution for use case #3 - Carbon emission of non-split gNB**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245419)

**Discussion:**

d2

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

**S5-245420 pCR TR 28.880 Potential solution for use case #3: Renewable Energy Factor of non-split gNB**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-246031**.

**S5-246031 pCR TR 28.880 Potential solution for use case #3: Renewable Energy Factor of non-split gNB**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-245420)

**Discussion:**

d1

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

**S5-245421 pCR TR 28.880 Potential solution for use case #3 - Non-split gNB carbon intensity**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei*

**Decision:** The document was **revised to S5-246032**.

**S5-246032 pCR TR 28.880 Potential solution for use case #3 - Non-split gNB carbon intensity**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei*

(Replaces S5-245421)

**Discussion:**

d1

Ericsson objected

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

**S5-245422 pCR TR 28.880 Closure of use case #4**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Discussion:**

based on previous docs

Getting back later.

Nokia objected.

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

**S5-245423 pCR TR 28.880 Closure of use case 5**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to S5-246033**.

**S5-246033 pCR TR 28.880 Closure of use case 5**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Huawei, Deutsche Telekom*

(Replaces S5-245423)

**Discussion:**

d1

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

**S5-245618 Rel-19 pCR TR 28.880 Potential solution for use case Handling of power shortages**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

**Discussion:**

overlap with 5619

**Decision:** The document was **revised to S5-246034**.

**S5-246034 Rel-19 pCR TR 28.880 Potential solution for use case Handling of power shortages**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

(Replaces S5-245618)

**Discussion:**

keep open

Huawei objected

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

**S5-245619 Rel-19 pCR TR 28.880 Potential solution for use case Enabling renewable energy consumption and carbon emission information reporting**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246271**.

**S5-246271 Rel-19 pCR TR 28.880 Potential solution for use case Enabling renewable energy consumption and carbon emission information reporting**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

(Replaces S5-245619)

**Discussion:**

Samsung wanted a revision.

**Decision:** The document was **revised to S5-246293**.

**S5-246293 Rel-19 pCR TR 28.880 Potential solution for use case Enabling renewable energy consumption and carbon emission information reporting**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

(Replaces S5-246271)

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

**S5-245620 Rel-19 pCR TR 28.880 Add use case and potential requirements to Enable energy type aware energy consumption reporting**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

**Decision:** The document was **revised to S5-246272**.

**S5-246272 Rel-19 pCR TR 28.880 Add use case and potential requirements to Enable energy type aware energy consumption reporting**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

(Replaces S5-245620)

**Discussion:**

d2

reissued as S5-246282 because of title change

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

**S5-246282 Rel-19 pCR TR 28.880 Add use case on cell proximity based energy saving**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Nokia*

**Abstract:**

reissued from S5-246272 because of title change

**Discussion:**

Huawei objects, need more time.

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

**S5-245621 Discussion paper on renewable energy information**

*Type: discussion For: Endorsement  
 Source: Nokia*

**Discussion:**

Huawei objects

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

**S5-245713 pCR TR 28.880 Conclusion and recommendation for the use case #10**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Vodafone Ireland Plc*

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

**S5-245716 pCR TR 28.880 Correction to use case #10**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Vodafone Ireland Plc*

**Decision:** The document was **revised to S5-246273**.

**S5-246273 pCR TR 28.880 Correction to use case #10**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Vodafone Ireland Plc*

(Replaces S5-245716)

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

**S5-245717 pCR TR 28.880 Conclusion and recommendation for the use case #10**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Vodafone Ireland Plc*

**Decision:** The document was **revised to S5-246274**.

**S5-246274 pCR TR 28.880 Conclusion and recommendation for the use case #10**

*Type: pCR For: Approval  
 28.880 v1.0.1  
 Source: Vodafone Ireland Plc*

(Replaces S5-245717)

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

**S5-245846 Rel-19 pCR 28.880 Solution for QoS update**

*Type: pCR For: Agreement  
 28.880 v1.0.1  
 Source: Samsung R&D Institute India*

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

**S5-245956 Draft TR 28.880**

*Type: draft TR For: Approval  
 28.880 v1.1.0  
 Source: Samsung*

**Decision:** The document was **email approval**.

#### 6.19.21 Study on Enhanced OAM for management exposure to external consumers

**S5-245616 Rel-19 pCR TR 28.879 Update Introduction, add scope and remove clause 5.2 and 5.3**

*Type: pCR For: Approval  
 28.879 v1.0.1  
 Source: Nokia*

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

**S5-245617 Rel-19 pCR TR 28.879 Addressing editHelp comments and Rapporteur cleanup**

*Type: pCR For: Approval  
 28.879 v1.0.1  
 Source: Nokia*

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

**S5-245816 Rel-19 pCR TR 28.879 Add conclusions and recommendations for exposing management services**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

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

**S5-245817 Rel-19 pCR TR 28.879 Add use case, requirements, potential solution and evaluation for service API consumption by an external MnS consumer**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

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

**S5-245818 Rel-19 pCR TR 28.879 Clean up to clarify the roles of the MnS producer vs the MnF and differentiates between discovery info configuration and authorization**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

Ericsson: wording is not appropriate

Nokia: need to merge

**Decision:** The document was **revised to S5-246038**.

**S5-246038 Rel-19 pCR TR 28.879 Clean up to clarify the roles of the MnS producer vs the MnF and differentiates between discovery info configuration and authorization**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

(Replaces S5-245818)

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

**S5-245819 Rel-19 pCR TR 28.879 Enhance exposure concepts and background**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

Ericsson: is not needed.

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

**S5-245820 Rel-19 pCR TR 28.879 Enhancements to the evaluation of the potential solutions for configuring discovery information**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

Nokia: would need a LS to SA6

**Decision:** The document was **revised to S5-246041**.

**S5-246041 Rel-19 pCR TR 28.879 Enhancements to the evaluation of the potential solutions for configuring discovery information**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

(Replaces S5-245820)

**Discussion:**

Ericsson objected

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

**S5-245821 Rel-19 pCR TR 28.879 Evaluation analysis for the publishing of management services use case**

*Type: pCR For: Approval  
 28.879 v1.0.0  
 Source: Nokia Hungary*

**Discussion:**

merged into 6040

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

**S5-245827 pCR TR 28.879 Configuring permissions of an external MnS consumer**

*Type: pCR For: (not specified)  
 28.879 v1.0.1  
 Source: Ericsson Limited*

**Discussion:**

discussion ongoing. Will come back at next meeting

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

**S5-245828 pCR TR 28.879 Publishing UC - updates on description and requirements**

*Type: pCR For: (not specified)  
 28.879 v1.0.1  
 Source: Ericsson Limited*

**Decision:** The document was **revised to S5-246039**.

**S5-246039 pCR TR 28.879 Publishing UC - updates on description and requirements**

*Type: pCR For: -  
 28.879 v1.0.1  
 Source: Ericsson Limited*

(Replaces S5-245828)

**Discussion:**

Nokia objects

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

**S5-245829 pCR TR 28.879 pCR TR 28.879 Publishing UC – updates on solution and evaluation**

*Type: pCR For: (not specified)  
 28.879 v1.0.1  
 Source: Ericsson Limited*

**Discussion:**

comments from Nokia, didn't agree with the propsed solution

**Decision:** The document was **revised to S5-246040**.

**S5-246040 pCR TR 28.879 pCR TR 28.879 Publishing UC – updates on solution and evaluation**

*Type: pCR For: -  
 28.879 v1.0.1  
 Source: Ericsson Limited*

(Replaces S5-245829)

**Discussion:**

to be revised further!

**Decision:** The document was **revised to S5-246283**.

**S5-246283 pCR TR 28.879 pCR TR 28.879 Publishing UC – updates on solution and evaluation**

*Type: pCR For: -  
 28.879 v1.0.1  
 Source: Ericsson Limited*

(Replaces S5-246040)

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

**S5-245957 Draft TR 28.879**

*Type: draft TR For: Approval  
 28.879 v1.1.0  
 Source: Nokia*

**Decision:** The document was **email approval**.

## 7 Charging

### 7.1 Charging Plenary

**S5-245215 CH agenda and time plan**

*Type: agenda For: (not specified)  
 Source: SA5 SWG CH Chair (MATRIXX Software)*

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

**S5-245216 Charging exec report**

*Type: report For: (not specified)  
 Source: SA5 SWG CH Chair (MATRIXX Software)*

**Discussion:**

list of agreed CRs!

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

**S5-245217 Collection of useful contributions and external communication documents in CH**

*Type: other For: (not specified)  
 Source: SWG Vice Chair (Huawei Tech.(UK) Co.. Ltd)*

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

**S5-245375 LS on Ranging/Sidelink Positioning Charging**

*Type: LS in For: Information  
 Original outgoing LS: S2-2409538, to SA5, cc -  
 Source: SA2*

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

**S5-245575 Discussion Paper on SA5 Charging Specifications Structure**

*Type: discussion For: Discussion  
 Source: Huawei*

**Decision:** The document was **revised to S5-245872**.

**S5-245872 Discussion Paper on SA5 Charging Specifications Structure**

*Type: discussion For: Discussion  
 Source: Huawei*

(Replaces S5-245575)

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

**S5-245870 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245871 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245922 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245923 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245924 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245925 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245926 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245927 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245928 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245929 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245930 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245931 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245932 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245933 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245934 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245935 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245936 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245937 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245938 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245939 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245940 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245941 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245942 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245943 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245944 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245945 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245946 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245947 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245948 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

**S5-245949 (reserved)**

*Type: other For: discussion  
 Source: CH*

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

### 7.2 New Charging Study/Work Item proposals

**S5-245542 Rel-19 DP Femto Support**

*Type: discussion For: Discussion  
 Source: Nokia*

**Decision:** The document was **revised to S5-245873**.

**S5-245873 Rel-19 DP Femto Support**

*Type: discussion For: Discussion  
 Source: Nokia*

(Replaces S5-245542)

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

**S5-245543 Rel-19 New SID on Charging Aspects of EEES**

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

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

**S5-245559 Rel-19 DP on charging for 5GS LCS**

*Type: discussion For: Discussion  
 32.271 v..  
 Source: China Telecom*

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

**S5-245576 Discussion Paper on business models for Ambient IoT**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-245577 New WID on Charging for Ambient power-enabled Internet of Things**

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

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

### 7.3 Charging Maintenance and Rel-19 Charging small enhancements

**S5-245561 Rel-18 DP Reference Points N107 and N108**

*Type: discussion For: Approval  
 32.240 v..  
 Source: Amdocs Software Systems Ltd*

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

**S5-245562 Rel-18 CR 32.240 Update N107 and N108 Definitions**

*Type: CR For: Approval  
 32.240 v18.8.0 CR-0501 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245878**.

**S5-245878 Rel-18 CR 32.240 Update N107 and N108 Definitions**

*Type: CR For: Approval  
 32.240 v18.8.0 CR-0501 rev 1 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245562)

**Discussion:**

New Tdoc title

Rel-18 CR 32.240 Correction on N107 and N108 for MVNO Charging?

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

**S5-245563 Rel-19 CR 32.240 Update N107 and N018 Definitions**

*Type: CR For: Approval  
 32.240 v19.1.0 CR-0502 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245879**.

**S5-245879 Rel-19 CR 32.240 Update N107 and N018 Definitions**

*Type: CR For: Approval  
 32.240 v19.1.0 CR-0502 rev 1 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245563)

**Discussion:**

New Tdoc title

Rel-19 CR 32.240 Correction on N107 and N108 for MVNO Charging?

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

**S5-245564 Rel-18 CR 32.240 Add CHF-CHF Interface**

*Type: CR For: Approval  
 32.240 v18.8.0 CR-0503 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245896**.

**S5-245896 Rel-18 CR 32.240 Add CHF-CHF Interface**

*Type: CR For: Approval  
 32.240 v18.8.0 CR-0503 rev 1 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245564)

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

**S5-245565 Rel-19 CR 32.240 Add CHF-CHF Interface**

*Type: CR For: Approval  
 32.240 v19.1.0 CR-0504 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245897**.

**S5-245897 Rel-19 CR 32.240 Add CHF-CHF Interface**

*Type: CR For: Approval  
 32.240 v19.1.0 CR-0504 rev 1 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245565)

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

**S5-245566 Rel-18 CR 32.255 Add Charging Architecture for MVNO Charging**

*Type: CR For: Approval  
 32.255 v18.5.0 CR-0560 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245880**.

**S5-245880 Rel-18 CR 32.255 Add Charging Architecture for MVNO Charging**

*Type: CR For: Approval  
 32.255 v18.5.0 CR-0560 rev 1 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245566)

**Discussion:**

New Tdoc title

Rel-18 CR 32.255 Correction on N107 and N108 for MVNO Charging

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

**S5-245567 Rel-19 CR 32.255 Add Charging Architecture for MVNO Charging**

*Type: CR For: Approval  
 32.255 v19.0.0 CR-0561 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245881**.

**S5-245881 Rel-19 CR 32.255 Add Charging Architecture for MVNO Charging**

*Type: CR For: Approval  
 32.255 v19.0.0 CR-0561 rev 1 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245567)

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

**S5-245568 Rel-18 CR 32.255 CHF Selection for Inter-CHF in Non-Roaming**

*Type: CR For: Approval  
 32.255 v18.5.0 CR-0562 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245884**.

**S5-245884 Rel-18 CR 32.255 CHF Selection for Inter-CHF in Non-Roaming**

*Type: CR For: Approval  
 32.255 v18.5.0 CR-0562 rev 1 Cat: F (Rel-18)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245568)

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

**S5-245569 Rel-19 CR 32.255 CHF Selection for Inter-CHF in Non-Roaming**

*Type: CR For: Approval  
 32.255 v19.0.0 CR-0563 Cat: A (Rel-19)  
  
 Source: Amdocs*

**Decision:** The document was **revised to S5-245885**.

**S5-245570 Rel-18 CR 32.256 Correction of Reference Points**

*Type: CR For: Approval  
 32.256 v18.5.0 CR-0043 Cat: F (Rel-18)  
  
 Source: Amdocs*

**Decision:** The document was **revised to S5-245882**.

**S5-245882 Rel-18 CR 32.256 Correction of Reference Points**

*Type: CR For: Approval  
 32.256 v18.5.0 CR-0043 rev 1 Cat: F (Rel-18)  
  
 Source: Amdocs*

(Replaces S5-245570)

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

**S5-245571 Rel-19 CR 32.256 Correction of Reference Points**

*Type: CR For: Approval  
 32.256 v19.0.0 CR-0044 Cat: A (Rel-19)  
  
 Source: Amdocs*

**Decision:** The document was **revised to S5-245883**.

**S5-245883 Rel-19 CR 32.256 Correction of Reference Points**

*Type: CR For: Approval  
 32.256 v19.0.0 CR-0044 rev 1 Cat: A (Rel-19)  
  
 Source: Amdocs*

(Replaces S5-245571)

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

**S5-245572 Rel-18 CR 32.256 CHF Selection for Inter-CHF**

*Type: CR For: Approval  
 32.256 v18.5.0 CR-0045 Cat: F (Rel-18)  
  
 Source: Amdocs*

**Decision:** The document was **revised to S5-245903**.

**S5-245903 Rel-18 CR 32.256 CHF Selection for Inter-CHF**

*Type: CR For: Approval  
 32.256 v18.5.0 CR-0045 rev 1 Cat: F (Rel-18)  
  
 Source: Amdocs*

(Replaces S5-245572)

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

**S5-245573 Rel-19 CR 32.256 CHF Selection for Inter-CHF**

*Type: CR For: Approval  
 32.255 v19.0.0 CR-0564 Cat: A (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

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

**S5-245578 Discussion Paper for correction on the non-blocking mode**

*Type: discussion For: Discussion  
 Source: Huawei*

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

**S5-245579 Rel-18 CR 32.290 Correction on the non-blocking mode**

*Type: CR For: Agreement  
 32.290 v18.7.0 CR-0231 rev 2 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-243993)

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

**S5-245580 Rel-19 CR 32.290 Correction on the non-blocking mode**

*Type: CR For: Agreement  
 32.290 v19.1.0 CR-0232 rev 2 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-243994)

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

**S5-245581 Rel-18 CR 32.291 Correction on the non-blocking mode**

*Type: CR For: Agreement  
 32.291 v18.7.0 CR-0551 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-241615)

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

**S5-245582 Rel-19 CR 32.291 Correction on the non-blocking mode**

*Type: CR For: Agreement  
 32.291 v19.0.0 CR-0584 Cat: A (Rel-19)  
  
 Source: Huawei*

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

**S5-245583 Rel-18 CR 32.254 Correction on the unsuccessful event charging**

*Type: CR For: Agreement  
 32.254 v18.3.0 CR-0052 rev 2 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-243998)

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

**S5-245584 Rel-18 CR 32.291 Correction on the unsuccessful event charging**

*Type: CR For: Agreement  
 32.291 v18.7.0 CR-0548 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-241609)

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

**S5-245585 Rel-19 CR 32.291 Correction on the unsuccessful event charging**

*Type: CR For: Agreement  
 32.291 v19.0.0 CR-0585 Cat: A (Rel-19)  
  
 Source: Huawei*

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

**S5-245586 Rel-18 CR 32.298 Correction on the unsuccessful event charging**

*Type: CR For: Agreement  
 32.298 v18.6.0 CR-1015 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**S5-245587 Rel-18 32.240 Correction on CHF deployment models**

*Type: CR For: Agreement  
 32.240 v18.8.0 CR-0496 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, Nokia*

(Replaces S5-244000)

**Decision:** The document was **revised to S5-245916**.

**S5-245916 Rel-18 32.240 Correction on CHF deployment models**

*Type: CR For: Agreement  
 32.240 v18.8.0 CR-0496 rev 2 Cat: F (Rel-18)  
  
 Source: Huawei, Nokia*

(Replaces S5-245587)

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

**S5-245588 Rel-19 32.240 Correction on CHF deployment models**

*Type: CR For: Agreement  
 32.240 v19.1.0 CR-0497 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei, Nokia*

(Replaces S5-244001)

**Decision:** The document was **revised to S5-245917**.

**S5-245917 Rel-19 32.240 Correction on CHF deployment models**

*Type: CR For: Agreement  
 32.240 v19.1.0 CR-0497 rev 2 Cat: A (Rel-19)  
  
 Source: Huawei, Nokia*

(Replaces S5-245588)

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

**S5-245589 Rel-18 CR 32.290 Correction on CHF as NF consumer detected failure**

*Type: CR For: Agreement  
 32.290 v18.7.0 CR-0233 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei*

(Replaces S5-244002)

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

**S5-245590 Rel-19 CR 32.290 Correction on CHF as NF consumer detected failure**

*Type: CR For: Agreement  
 32.290 v19.1.0 CR-0234 rev 1 Cat: A (Rel-19)  
  
 Source: Huawei*

(Replaces S5-244003)

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

**S5-245614 Rel-18 CR 32.256 CHF Selection for Inter-CHF**

*Type: CR For: Approval  
 32.256 v19.0.0 CR-0046 Cat: A (Rel-19)  
  
 Source: Amdocs*

**Decision:** The document was **revised to S5-245921**.

**S5-245921 Rel-18 CR 32.256 CHF Selection for Inter-CHF**

*Type: CR For: Approval  
 32.256 v19.0.0 CR-0046 rev 1 Cat: A (Rel-19)  
  
 Source: Amdocs*

(Replaces S5-245614)

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

**S5-245639 Rel-19 CR 32.255 Clarifying the support of N107 and PCF**

*Type: CR For: Agreement  
 32.255 v19.0.0 CR-0565 Cat: F (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245920**.

**S5-245920 Rel-19 CR 32.255 Clarifying the support of N107 and PCF**

*Type: CR For: Agreement  
 32.255 v19.0.0 CR-0565 rev 1 Cat: F (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245639)

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

**S5-245640 Rel-18 CR 32.274 Correction of references for SMS information**

*Type: CR For: Agreement  
 32.274 v18.0.0 CR-0089 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S5-245641 Rel-17 CR 32.291 Correction of ProblemDetails to use allOf**

*Type: CR For: Agreement  
 32.291 v17.11.0 CR-0586 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S5-245642 Rel-18 CR 32.291 Correction of ProblemDetails to use allOf**

*Type: CR For: Agreement  
 32.291 v18.7.0 CR-0587 Cat: A (Rel-18)  
  
 Source: Ericsson LM*

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

**S5-245643 Rel-19 CR 32.291 Correction of ProblemDetails to use allOf**

*Type: CR For: Agreement  
 32.291 v19.0.0 CR-0588 Cat: A (Rel-19)  
  
 Source: Ericsson*

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

**S5-245644 Rel-17 CR 32.298 Correction of versions or format faults in ASN references**

*Type: CR For: Agreement  
 32.298 v17.11.0 CR-1016 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S5-245645 Rel-18 CR 32.298 Correction of IMSTrigger and InterCHF ASN**

*Type: CR For: Agreement  
 32.298 v18.6.0 CR-1017 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S5-245646 Rel-19 CR 32.298 Correction of IMSTrigger and InterCHF ASN**

*Type: CR For: Agreement  
 32.298 v18.6.0 CR-1018 Cat: A (Rel-19)  
  
 Source: Ericsson*

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

**S5-245647 Rel-17 CR 32.298 Moving ASN to 3GPP Forge**

*Type: CR For: Agreement  
 32.298 v17.11.0 CR-1019 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S5-245648 Rel-18 CR 32.298 Moving ASN to 3GPP Forge**

*Type: CR For: Agreement  
 32.298 v18.6.0 CR-1020 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S5-245649 Rel-19 CR 32.298 Moving ASN to 3GPP Forge**

*Type: CR For: Agreement  
 32.298 v18.6.0 CR-1021 Cat: F (Rel-19)  
  
 Source: Ericsson*

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

**S5-245767 Rel-19 CR 32.290 Message Sequence Handling**

*Type: CR For: Agreement  
 32.290 v19.1.0 CR-0240 Cat: F (Rel-19)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-245919**.

**S5-245919 Rel-19 CR 32.290 Message Sequence Handling**

*Type: CR For: Agreement  
 32.290 v19.1.0 CR-0240 rev 1 Cat: F (Rel-19)  
  
 Source: Nokia*

(Replaces S5-245767)

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

**S5-245769 Rel-18 CR 32.290 Message Sequence Handling**

*Type: CR For: Agreement  
 32.290 v18.7.0 CR-0241 Cat: F (Rel-18)  
  
 Source: Nokia*

**Decision:** The document was **revised to S5-245918**.

**S5-245918 Rel-18 CR 32.290 Message Sequence Handling**

*Type: CR For: Agreement  
 32.290 v18.7.0 CR-0241 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia*

(Replaces S5-245769)

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

### 7.4 Rel-19 Work Items

#### 7.4.1 WID on CHF Segmentation

**S5-245574 Rel-19 32.291 Add Charging Domains in Supported Features**

*Type: CR For: Approval  
 32.291 v19.0.0 CR-0583 Cat: B (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

**Decision:** The document was **revised to S5-245874**.

**S5-245874 Rel-19 32.291 Add Charging Domains in Supported Features**

*Type: CR For: Approval  
 32.291 v19.0.0 CR-0583 rev 1 Cat: B (Rel-19)  
  
 Source: Amdocs Software Systems Ltd*

(Replaces S5-245574)

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

**S5-245650 LS on Usage of Charging Characteristics and CHF Group ID**

*Type: LS out For: Approval  
 to SA2, CT4  
 Source: Ericsson*

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

**S5-245651 Rel-19 CR 32.255 Adding use of charging characteristics for CHF Group**

*Type: CR For: Agreement  
 32.255 v19.0.0 CR-0566 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245876**.

**S5-245876 Rel-19 CR 32.255 Adding use of charging characteristics for CHF Group**

*Type: CR For: Agreement  
 32.255 v19.0.0 CR-0566 rev 1 Cat: B (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245651)

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

**S5-245652 Rel-19 CR 32.256 Adding use of charging characteristics for CHF Group**

*Type: CR For: Agreement  
 32.256 v19.0.0 CR-0047 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245877**.

**S5-245877 Rel-19 CR 32.256 Adding use of charging characteristics for CHF Group**

*Type: CR For: Agreement  
 32.256 v19.0.0 CR-0047 rev 1 Cat: B (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245652)

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

#### 7.4.2 WID on Charging Aspects of Ranging and Sidelink Positioning

**S5-245558 Add charging support for Ranging and Sidelink Positioning service**

*Type: CR For: Approval  
 32.254 v18.3.0 CR-0053 Cat: B (Rel-19)  
  
 Source: China Telecom*

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

#### 7.4.3 WID on charging aspects for energy efficiency of 5G

#### 7.4.4 WID on charging for indirect network sharing

**S5-245653 Rel-19 CR 32.240 Addition network sharing**

*Type: CR For: Agreement  
 32.240 v19.1.0 CR-0505 Cat: B (Rel-19)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245875**.

**S5-245875 Rel-19 CR 32.240 Addition network sharing**

*Type: CR For: Agreement  
 32.240 v19.1.0 CR-0505 rev 1 Cat: B (Rel-19)  
  
 Source: Ericsson*

(Replaces S5-245653)

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

#### 7.4.5 New WID on Charging Aspects for 5G ProSe Ph3

### 7.5 Charging Studies

#### 7.5.1 Study on charging aspects of satellite access Phase 3

**S5-245284 pCR TR28.846 update the business scenario for roaming from terrestrial operator network to satellite operator network**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CSCN*

**Abstract:**

update the business scenario for roaming from terrestrial operator network to satellite operator network

**Discussion:**

into 5654

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

**S5-245285 pCR TR28.846 update the business scenario for VNO which provide satellite communication services**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CSCN*

**Abstract:**

update the business scenario for VNO which provide satellite communication services

**Discussion:**

into 5654

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

**S5-245333 Add store and forward satellite operation charging solutions for SMS**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CATT*

**Abstract:**

This pCR proposes to add S&F operation charging solutions for SMS.

**Decision:** The document was **revised to S5-245908**.

**S5-245908 Add store and forward satellite operation charging solutions for SMS**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CATT*

(Replaces S5-245333)

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

**S5-245334 Add store and forward satellite operation charging solutions for Control Plane CIoT**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CATT*

**Abstract:**

This pCR proposes to add S&F operation charging solutions for Control Plane CIoT.

**Decision:** The document was **revised to S5-245909**.

**S5-245909 Add store and forward satellite operation charging solutions for Control Plane CIoT**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CATT*

(Replaces S5-245334)

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

**S5-245335 Add evaluation for store and forward satellite operation charging**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CATT*

**Abstract:**

This pCR proposes to add evaluation for S&F operation charging.

**Decision:** The document was **revised to S5-245910**.

**S5-245910 Add evaluation for store and forward satellite operation charging**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: CATT*

(Replaces S5-245335)

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

**S5-245591 Rel-19 pCR 28.846 Update charging scenario for Satellite Roaming Charging**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245911**.

**S5-245911 Rel-19 pCR 28.846 Update charging scenario for Satellite Roaming Charging**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Huawei*

(Replaces S5-245591)

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

**S5-245592 Rel-19 pCR 28.846 Introduce the solution for Satellite Roaming Charging**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245912**.

**S5-245912 Rel-19 pCR 28.846 Introduce the solution for Satellite Roaming Charging**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Huawei*

(Replaces S5-245592)

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

**S5-245654 Rel-19 pCR 28.846 Update of business roles and scenarios**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245878**.

**S5-245655 Rel-19 pCR 28.846 Clarification of topic 1 use cases**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245913**.

**S5-245913 Rel-19 pCR 28.846 Clarification of topic 1 use cases**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

(Replaces S5-245655)

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

**S5-245656 Rel-19 pCR 28.846 Clarification of topic 2 use cases**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245914**.

**S5-245914 Rel-19 pCR 28.846 Clarification of topic 2 use cases**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

(Replaces S5-245656)

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

**S5-245657 Rel-19 pCR 28.846 Clarification of topic 3 use cases**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245915**.

**S5-245915 Rel-19 pCR 28.846 Clarification of topic 3 use cases**

*Type: pCR For: Approval  
 28.846 v0.1.0  
 Source: Ericsson*

(Replaces S5-245657)

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

**S5-245964 Draft TR 28.846**

*Type: draft TR For: Approval  
 28.846 v0.2.0  
 Source: CICT*

**Decision:** The document was **email approval**.

#### 7.5.2 Study on Charging Aspects of CAPIF

**S5-245537 Rel-19 pCR 28.849 API Service Management Solution**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245885**.

**S5-245885 Rel-19 pCR 28.849 API Service Management Solution**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

(Replaces S5-245537)

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

**S5-245538 Rel-19 pCR 28.849 API Service Management Evaluation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245886**.

**S5-245886 Rel-19 pCR 28.849 API Service Management Evaluation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

(Replaces S5-245538)

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

**S5-245539 Rel-19 pCR 28.849 Multiple API Providers Solution**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245887**.

**S5-245887 Rel-19 pCR 28.849 Multiple API Providers Solution**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

(Replaces S5-245539)

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

**S5-245540 Rel-19 pCR 28.849 Multiple API Providers Evaluation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245888**.

**S5-245888 Rel-19 pCR 28.849 Multiple API Providers Evaluation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

(Replaces S5-245540)

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

**S5-245541 Rel-19 pCR 28.849 Topic#4 CAPIF Charging Scenarios and KI**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

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

**S5-245593 Rel-19 pCR 28.849 Update charging solution for API invocation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245889**.

**S5-245889 Rel-19 pCR 28.849 Update charging solution for API invocation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

(Replaces S5-245593)

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

**S5-245594 Rel-19 pCR 28.849 New charging scenario for API invoker operation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245890**.

**S5-245890 Rel-19 pCR 28.849 New charging scenario for API invoker operation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

(Replaces S5-245594)

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

**S5-245595 Rel-19 pCR 28.849 New charging solution for API invoker operation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245891**.

**S5-245891 Rel-19 pCR 28.849 New charging solution for API invoker operation**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

(Replaces S5-245595)

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

**S5-245596 Rel-19 pCR 28.849 New charging solution for API invoker management**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245892**.

**S5-245892 Rel-19 pCR 28.849 New charging solution for API invoker management**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

(Replaces S5-245596)

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

**S5-245597 Rel-19 pCR 28.849 New charging solution for service API management**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245893**.

**S5-245893 Rel-19 pCR 28.849 New charging solution for service API management**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Huawei*

(Replaces S5-245597)

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

**S5-245658 Rel-19 pCR 28.849 Update of relationships for RNAA**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

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

**S5-245659 Rel-19 pCR 28.849 Solution for topic 1 reusing NEF charging**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245894**.

**S5-245894 Rel-19 pCR 28.849 Solution for topic 1 reusing NEF charging**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

(Replaces S5-245659)

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

**S5-245660 Rel-19 pCR 28.849 Solution for topic 1 using subscription**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245895**.

**S5-245895 Rel-19 pCR 28.849 Solution for topic 1 using subscription**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

(Replaces S5-245660)

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

**S5-245661 Rel-19 pCR 28.849 Solution for topic 3 reusing NEF charging**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S5-245898**.

**S5-245898 Rel-19 pCR 28.849 Solution for topic 3 reusing NEF charging**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Ericsson*

(Replaces S5-245661)

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

**S5-245718 pCR TR 28.849 Topic#4 CAPIF Charging Scenarios and KI**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

**Decision:** The document was **revised to S5-245899**.

**S5-245899 pCR TR 28.849 Topic#4 CAPIF Charging Scenarios and KI**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

(Replaces S5-245718)

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

**S5-245760 Rel-19 pCR 28.849 Editorial Changes**

*Type: pCR For: Approval  
 28.849 v0.1.0  
 Source: Nokia*

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

**S5-245965 Draft TR 28.849**

*Type: draft TR For: Approval  
 28.849 v0.2.0  
 Source: Nokia*

**Decision:** The document was **email approval**.

#### 7.5.3 Study on Charging aspects of next generation real time communication services phase 2

**S5-245280 Rel-19 pCR 28.851 Adding solution on IMS converged charging for standalone IMS Data Channel**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: China Mobile, Huawei*

**Abstract:**

Brief description of document content.

**Decision:** The document was **revised to S5-245900**.

**S5-245900 Rel-19 pCR 28.851 Adding solution on IMS converged charging for standalone IMS Data Channel**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: China Mobile, Huawei*

(Replaces S5-245280)

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

**S5-245598 Rel-19 pCR 28.851 New charging solution for IMS network capabilities exposure**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: Huawei, China Mobile*

**Decision:** The document was **revised to S5-245901**.

**S5-245901 Rel-19 pCR 28.851 New charging solution for IMS network capabilities exposure**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: Huawei, China Mobile*

(Replaces S5-245598)

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

**S5-245599 Rel-19 pCR 28.851 Update charging scenario for DC application usage**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245902**.

**S5-245902 Rel-19 pCR 28.851 Update charging scenario for DC application usage**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: Huawei*

(Replaces S5-245599)

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

**S5-245600 Rel-19 pCR 28.851 New charging solution for DC application download**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245903**.

**S5-245662 Rel-19 pCR 28.851 Solution for topic 3 reusing NEF charging**

*Type: pCR For: Approval  
 28.851 v0.1.0  
 Source: Ericsson*

**Discussion:**

into 5598

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

**S5-245966 Draft TR 28.851**

*Type: draft TR For: Approval  
 28.851 v0.2.0  
 Source: CMCC*

**Decision:** The document was **email approval**.

#### 7.5.4 Study on Charging aspects of Uncrewed Aerial Vehicle

**S5-245237 Rel-19 pCR 28.853 Add solution for charging with UAV Identifier**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: China Mobile E-Commerce Co.*

**Decision:** The document was **revised to S5-245904**.

**S5-245904 Rel-19 pCR 28.853 Add solution for charging with UAV Identifier**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: China Mobile E-Commerce Co.*

(Replaces S5-245237)

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

**S5-245601 Rel-19 pCR 28.853 Introduce the Aircraft-to-Everything for UAS Charging**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245905**.

**S5-245905 Rel-19 pCR 28.853 Introduce the Aircraft-to-Everything for UAS Charging**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

(Replaces S5-245601)

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

**S5-245602 Rel-19 pCR 28.853 New charging solution for provisioning for A2X communication**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

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

**S5-245603 Rel-19 pCR 28.853 New charging solution for non-roaming A2X Communication**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245906**.

**S5-245906 Rel-19 pCR 28.853 New charging solution for non-roaming A2X Communication**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

(Replaces S5-245603)

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

**S5-245604 Rel-19 pCR 28.853 New charging solution for roaming A2X Communication**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

**Decision:** The document was **revised to S5-245907**.

**S5-245907 Rel-19 pCR 28.853 New charging solution for roaming A2X Communication**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

(Replaces S5-245604)

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

**S5-245605 Rel-19 pCR 28.853 Update charging solution for UAS service invocation**

*Type: pCR For: Approval  
 28.853 v0.1.0  
 Source: Huawei*

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

**S5-245967 Draft TR 28.853**

*Type: draft TR For: Approval  
 28.853 v0.2.0  
 Source: CMCC*

**Decision:** The document was **email approval**.

## 8 Any Other Business

## 9 Closing of the meeting