3GPP TSG-SA WG5 #162 S5-253211

Goteborg, SWEDEN 25 - 29 August 2025

**Source:** SA5 Chair, SA5 Vice Chair (Ericsson)

**Title:** Plenary and OAM Chair notes and conclusions

**Document for:** Information

**Agenda Item:** 5.1

# Agenda

**SA5#162 Closing plenary Agenda:**

**(1/2/3/4/5.1/5.2/5.3/5.4/5.5/CH report/OAM Continuation)**

**SA5 Closing plenary (OAM) start from 9:00am Friday: check OAM tdocs**

**SA5 Closing plenary (OAM+CH) start from 11:00am Friday**

**1. Check the leftover tdocs in (1/2/3/4/5.1/5.2/5.3/5.4/5.5)**

**S5-253743 was S5-253219 Rel-19 SA5 work planning**

* **Reminder to Rel-19 rapporteurs to check slide 6~9 for completeness of supporting feature information.**

**S5-253744 was S5-253220 Rel-20 SA5 work planning**

* **Reminder Slide 11 for guidance of nomination of SA5 rapporteur role**

**2. CH report (3216)**

**3. Rapporteur call date options**

**4. Email approval time plan**

**5. Announcement**

**6. OAM Continuation**

**7. AOB**

**Important Reminder:**

1. Please upload final zip file in inbox folder, we will not address revisions in closing plenary today.
2. All tdocs no matter they are approved/agreed or not shall be uploaded to local server “inbox” folder/send email to Joern with final zip file before meeting is closed on Friday (29 August.2025). If final zip file is not uploaded, MCC will mark the status as withdrawn and original tdoc will be noted.
3. All forge authors to update the merge requests ASAP.

**SA5 OAM Rapporteur call options:**

* **SA5#162.1 (4 Sep 2025) 13:00UTC~14:00UTC** 
  + - **S5-253743/ S5-253744/S5-253407**
* **SA5#161.2 (11/18?? Sep 2025) 13:00UTC~14:30UTC**
  + open
* **SA5 CH Rapporteur call options:**

**Email approval time plan:**

* **No email approval for WID/SID/pCR/CR/Discussion paper/Input to draftCR.**
* **Only outgoing LS/draftCR& conversion draftCR to CR/draft TR/CH OpenAPI CR (pre-rel-19) /Draft TS email approval are allowed：rapporteurs are requested to put draftCR and the corresponding conversion CR in one email thread.**
* Time to start(author): before Monday (1 Sep) 22:00 UTC the week after SA5 meeting.
* Last comments (all): before Wednesday (3 Sep) 14:00 UTC the week after SA5 meeting.
* Declaration of conclusion (draft TR/TS by rapporteurs and other tdocs by Vice chair): before Wednesday (3 Sep) 22:00 UTC the week after SA5 meeting.
* Final tdocs(author): All the final tdocs shall be sent to MCC (Joern) no later than Thursday (4 Sep) 14:00 UTC the week after SA5 meeting. Final tdocs which are not sent to MCC (Joern ) on time will be withdrawn.
* In case there are late technical comments, the moderator may exceptionally extend the deadline for 1 day. In this case, the final tdoc shall be sent to MCC(Joern) no later than Friday (5 Sep) 14:00 UTC the week after SA5 meeting.

**Reminder for rapporteurs:**

**Rapporteurs send for email approval, moderate the discussion, declare the approval conclusion and send the final version to MCC (Joern) before deadline. Status document will not capture TR/TS/draftCR email approval information.**

**Reminder for stage3 authors: Check email from Ruiyue Xu(code moderator) to take actions on forge.**

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| **Tdoc** | **Title** | | **Comments** | |
| 1. Opening of the meeting | | | | |
| 2. Approval of the agenda | | | | |
| [**S5-253370**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253370.zip) | | Revised Agenda | WG Chair | Lan Zou |
| [**S5-253200**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253200.zip) | | Agenda  Revised to 3370 | WG Chair | Lan Zou |
| 3. IPR and Antitrust and Consensus principles reminders | | | | |
| [**S5-253201**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253201.zip) | | IPR Antitrust and Consensus principles reminders | WG Chair | Lan Zou |
| 4. Meetings and activities reports | | | | |
| 4.1. Last SA5 meeting report | | | | |
| [**S5-253202**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253202.zip) | | Report from last SA5 meeting   * 3739 remove the draft. Approved. | MCC | Antoine Mouquet |
| 4.2. Inter-organizational reports | | | | |
| [**S5-253671**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253671.zip) | | Report from last SA5-SG2 methodology coordination meeting | Ericsson LM | Thomas Tovinger |
| 5. SA5 level issues | | | | |
| 5.1. Administrative issues at SA5 level | | | | |
| S5-253203 | | Time Plan for SA5 Plenary and OAM sessions  **Leaders’ recommendation:** Keep open until closing plenary for further update, to be noted in closing plenary | WG Chair | Lan Zou |
| S5-253204 | | agenda\_with\_Tdocs\_sequence\_Plenary&OAM  **Leaders’ recommendation:** suggest to note 3204. | WG Chair | Lan Zou |
| [**S5-253205**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253205.zip) | | SA5 working methods  ->3740 | WG Chair | Lan Zou |
| [**S5-253222**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253222.zip) | | User Guide - Using Forge for SA5  E: offline comments.  ->3741 | Nokia, Nokia Shanghai Bell | Sean Sun |
| [**S5-253268**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253268.zip) | | SA5 working procedures - Close MRs  HW: support the change. Suggest to add a note. If author doesn’t close MR, code moderator could close the MR.  ->merge into 3740 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253269**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253269.zip) | | SA5 Working Procedures - YANG checklist  HW: why step 5 CR author needs to send email to code moderator? It should be optional.  ->Merge into 3740. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253681**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253681.zip) | | SA5 Working Procedures initial TS and TR clarifications  No comments received.  ->Merge into 3740 | Ericsson | Robert Petersen |
| [**S5-253206**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253206.zip) | | SA5 Meeting facility requirements  **Leaders’ recommendation:** same content as in SA5#159,for information. Suggest to note 3206.  DT: revised version 3206r1 is uploaded.  C: SA5 should follow the 3GPP overall guidance on host a meeting. Will not submit this document from SA5#163.  ->3742  Noted. | WG Chair | Lan Zou |
| S5-253208 | | Post meeting email approval status  **Leaders’ recommendation:** suggest to note 3208. | WG Vice Chair (Ericsson) | Thomas Tovinger |
| S5-253211 | | Plenary and OAM Chair notes and conclusions  **Leaders’ recommendation:** suggest to note 3211. | WG Chair | Lan Zou |
| S5-253214 | | Rel-19 SA5 work plan TU table  **Leaders’ recommendation:** Keep open until closing plenary for further update, to be noted in closing plenary. | WG Chair | Lan Zou |
| S5-253407 | | Rel-20 SA5 work plan TU table  Keep open until closing plenary for further update if needed. | WG Chair | Lan Zou |
| [**S5-253218**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253218.zip) | | Latest SA5 WIs-Sis  **Leaders’ recommendation:** for information. Suggest to note 3218 | WG Chair | Lan Zou |
| S5-253219 | | Rel-19 SA5 work planning  Status check at the end of Thursday Q2:  - AIML: Revised WID for downscoping needed. New tdoc# in agenda 6.19.1.1: 4057  - FS\_Cloud\_OAM: The study is not finished, will go into R20, checkpoint in October  - PlanM: Just need a new tdoc# for Presentation sheet for 28.572 -> 4029  - CCLM: Just need a new tdoc# for Presentation sheet for 28.567 -> 4058  - TraceQoE\_OAM: Exception sheet may be needed, depending on the closing plenary result.  ->3743 | WG Chair | Lan Zou |
| S5-253220 | | Rel-20 SA5 work planning  M: WSOLU should be taken into account.  CU: slide 30 add 6G NWM link.  ->3744 | WG Chair | Lan Zou |
| [**S5-253682**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253682.zip) | | Maintenance of TSs in SA5  MCC: the maintenance of specification should be aligned between multiple WGs. Why start from Rel-16?  HW: why start from Rel-16? Clarification on the meaning “not to be maintained”.  M: which release to be maintained by operation?  ->3745 | Ericsson | Robert Petersen |
| 5.2. Technical issues at SA5 level | | | | |
| 5.3. Liaison statements at SA5 level | | | | |
| [**S5-253299**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253299.zip) | | Reply LS to RP-243316 = S5-250289 on AI/ML UE sided data collection (S2-2505713; to: RAN; cc: SA, SA3, SA5, RAN1, RAN2; contact: vivo)  **Leaders’ recommendation:** SA2 reply to RAN, SA5 has replied RAN LS in S5-250828 in SA5#159. Suggest to note 3299 | SA2 | Joern Krause |
| [**S5-253303**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253303.zip) | | Reply LS to R3-250858 = S5-251325 on MBS Communication Service Type (S4-251096; to: RAN3; cc: RAN2, SA5; contact: Nokia)  **Leaders’ recommendation:** SA4 reply to RAN3 on MBS Communication Service Type, SA5 is in cc. Suggest to note 3303 | SA4 | Joern Krause |
| [**S5-253305**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253305.zip) | | LS on on multi-dimensional network energy efficiency metrics (ETSI TC EEPS(25)000034r2; to: SA5; cc: ITU-T SG5; contact: Nokia)  Please take the above information into consideration and keep ETSI EE updated of your work progress on multi-dimensional network energy efficiency metrics. Please inform ETSI EE on the potential scheduling of a joint e-meeting in September.  **Leaders’ recommendation:** action for SA5 for consideration of joint e-meeting. **Need volunteer to draft reply from SA5.**  E: EE will complete draft TR in October. Suggest to wait EE draft TR to be stable.  HW: agree with Ericsson. SA5 already finished our work on multiple-dimensional work.  N: SA5 is ready and we should share our progress with EE, so they could take into account of our work.   * Draft reply LS in 3746 (Nokia) | ETSI TC EE | Joern Krause |
| S5-253746 | | LS on on multi-dimensional network energy efficiency metrics  D1: no comments received. | Nokia | Sri |
| [**S5-253306**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253306.zip) | | LS on new GSMA OPG PRDs publication and changes to PRD OPG.02 (GSMA OPG\_221\_Doc\_03; to: SA5, SA6, ETSI ISG MEC, ETSI ISG NFV; cc: -; contact: ?)  GSMA OPG believes that the changes above may require updating references in the 3GPP and ETSI documents. Thus, we kindly ask 3GPP and ETSI to consider the changes in the above GSMA documents.  **Leaders’ recommendation:** action for SA5 to check whether updating reference is needed. **Need volunteer to check.**  SS to check. | GSMA OPG | Joern Krause |
| [**S5-253307**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253307.zip) | | LS on request for feedback concerning ITU-T Y.IMT-2020-MEVE-req-frame "Future networks including IMT-2020: framework and requirements for measurement of effectiveness of autonomous networks" (ITUT\_SG13-LS58; to: SA5, TM Forum AN; cc: -; contact: Huawei)  ITU-T Working Party 1/13 would like to inform 3GPP SA5 and TM Forum AN about the progress of new draft Recommendation ITU-T Y.IMT-2020-MEVE-req-frame “Future networks including IMT-2020: framework and requirements for measurement of effectiveness of autonomous networks”, which is planned for consent at the next ITU-T Study Group 13 meeting, Tashkent, Uzbekistan, 28 October-6 November 2025.  **Leaders’ recommendation:** draft reply in 3510 | ITU-T SG13 | Joern Krause |
| [**S5-253510**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253510.zip) | | Reply to LS on request for feedback concerning ITU-T Y.IMT-2020-MEVE-req-frame “Future networks including IMT-2020: framework and requirements for measurement of effectiveness of autonomous networks  Reallocate 6.1->5.3  E: suggest to note without reply. Need to remove one sentence regarding the effectiveness measurements to be defined.  CMCC: would like to provide a reply.  ->3747 | China Mobile | Sheng GAO |
| S5-253308 | | LS on initiation of new Technical Reports ITU-T YSTR.Af-KBSC “Architectural Framework for Knowledge-Based Semantic Communication over Public IMT Networks” and ITU-T YSTR.SemGenAI “Framework for Semantic Communication Pipe-line with Generative AI-based Reconstruction” (ITUT\_SG13-LS86; to: SA1, SA2, SA5, ITU-T SG17, IETF; cc: -; contact: Huawei)"  ITU-T Working Party 1/13 would like to inform ITU-T SG17, 3GPP SA1, 3GPP SA2 and IETF about the initiation of the two draft new Technical Reports YSTR.Af-KBSC “Architectural Framework for Knowledge-Based Semantic Communication over Public IMT Networks” and YSTR.SemGenAI “Framework for Semantic Communication Pipe-line with Generative AI-based Reconstruction”. These draft new Technical Reports have been initiated at the ITU-T Working Party 1/13 plenary on 25 July 2025.  Samsung asked tocheck the relevance to SA5 work.  SS: it’s related to SA5 6G study.  Draft reply LS in 3748 (Samsung) | ITU-T SG13 | Joern Krause |
| S5-253309 | | reserved | ETSI MCC | Joern Krause |
| [**S5-253406**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253406.zip) | | LS on Rel-20 5GA OAM and Charging requirements from SA1  E: Suggest to also send to other related WGs.  NEC: Why specifically for 5GA?  M: some companies may not attend SA1.  CMCC: suggest to collect more 5GA features from other WGs which related to management.  ->3829 | WG Chair | Lan Zou |
| 5.4. SA5 meeting calendar | | | | |
| [**S5-253207**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253207.zip) | | SA5 meeting calendar  Noted. | WG Chair | Lan Zou |
| 5.5. Rel-20 topic preparation | | | | |
| **Rel-20 5GA OAM** | | | | |
| [**S5-253283**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253283.zip) | | Revised WID on 5G Advanced NRM features phase 4  Reallocate 6.2.2->5.5  Agreed. | Nokia, Nokia Shanghai Bell | Sean Sun |
| [**S5-253358**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253358.zip) | | Revised WID on Management Aspects related to NWDAF phase 3  Agreed. | China Telecom Corporation Ltd. | Song Zhao |
| [**S5-253324**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253324.zip) | | Revised SID on Study on energy efficiency and energy saving aspects of 5G Advanced  Agreed. | Nokia | Srilakshmi Srinivasaraju |
| [**S5-253429**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253429.zip) | | New WID on cloud aspects of management and orchestration  HW: need to wait for the Rel-19 progress to decide for normative work.  SS: affected TS, agree with Huawei.  E: E has a WID proposal. Like to start from LCM of NF deployment first. Like to have a basic framework support both MANO and non-MANO solutions.  DCM: co-sign and provide offline comments.  N: ok with WT1/2. WT3: support usage of declarative descriptor in NF Deployments? What’s NRM update?  WT4: what enhancements?  RT: co-sign.  Keep open. | Moderator (China Mobile) | guangjing cao |
| [**S5-253696**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253696.zip) | | New WID on Life Cycle Management (LCM) of NF Deployment  DCM: do not agree with LCM with current details.  SS: need to wait for TR concludes. Prefer this proposal.  HW: need to wait for TR concludes. Suggest to postpone to next meeting. No concrete solution so far.  AT&T: support this WID.  CMCC: the content of this WID is part of 3429. Suggest to merge 3429 and 3696  Keep open. | Ericsson Limited, Nokia, AT&T | Junfeng Wang |
| [**S5-253626**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253626.zip) | | New SID on Management aspects of Integrated Sensing and Communication  Z: ask for comments, not for approval.  CU: support this topic, need to check status of SA2 and align with SA2.  E: prefer to keep this topic for 6G. Clarify this topic is for 5GA or 6G? Could be covered by adNRM and PM.  Noted. | ZTE Corporation | Bangqiu Ruan |
| **Rel-20 5GA CH** | | | | |
| [**S5-253552**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253552.zip) | | New SID on charging reliability enhancement  Reallocate 7.2->5.5  E: disagree with N107, should be N47. Suggest to reformulate the description to how to handle roaming scenarios.  MCC: Acronym to be updated.  M: support.  N: WT1 is ok. do not support WT1.2 need more clarification.  CT: not clear on the study. What’s impact on reliability? It’s more like implementation issue.  ->3830 | Huawei | Han Wang |
| **[S5-253314](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253314.zip)** | | New WI on charging aspects for XRM  Reallocate 7.2->5.5  C: clarify which release this WID support.  CT: support both Rel-18 and Rel-19.  N: information exposure is missing.  E: Charging can’t define identifiers. Need to reword.  WT3 need more clarification.  M: remove text in impacted existing TS/TR  ->3831 | China Telecom Corporation Ltd. | XIAOQIAN JIA |
| **Rel-20 6G CH** | | | | |
| [**S5-253351**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253351.zip) | | SA5 NWM Discussion for Rel-20 6G Charging Work Areas  **Leaders’ recommendation:** For information, **suggest to note 3351.** | China Telecom (Moderator) | Zhiwei Mo |
| S5-253408 | | Study on ISAC Senarios and Charging Requirements  Reallocate 7.2->5.5  C: suggest to present in CH SWG. | China Mobile Com. Corporation | Yang Yang |
| [**S5-253353**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253353.zip) | | New SID on Charging Aspects of 6G System  E: WT1.2 should rely on WT1.1  WT2.2: why we need new architecture?  WT2.3: relation with 5GA reliability proposal  WT 3.3: policy is out scope of SA5,should be in scope of SA2.  DT: WT2.2 need justification.  CMCC: WT 3.1 clarify which 6G service is in the scope.  HW: WT2.3 is for 6G. WT3.3 PCF/CHF coordination.  CT: not ready to add 6G services as SA2 is still working on it.  WT2.2 is to simplify CH architecture.  WT3.3 needs to work with SA2.  N: WT3.3 support PCF/CHF coordination. Evaluation current interface related to CCS.  CATT: WT3.1 new services in justification.  ->3832  HW: 2.5 is merged into 2.1, HW like to add an example.  M: part of 2.5 has been covered in 2.4 interworking.  N: support to add example.  WT-2.1 offline  Group agreed that WT-2.5 “Enhance support for policies that allow charging decisions to be made from a charging perspective” can be covered in WT-2.1/WT-2.4.  2.4  N: why existing? Remove existing.  Reword “Interworking of 6G charging system with the network functions and 3rd charging systems”.  WT-3:  DT: rewording specified->identified  Rev8\_online is uploaded. | China Telecom (Moderator) | Zhiwei Mo |
| **Rel-20 6G OAM** | | | | |
| [**S5-253246**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253246.zip) | | Verizon’s Preliminary Views on 3GPP SA5 Rel-20 6G Priorities  **Leaders’ recommendation:** For information, **suggest to note 3246.**  Noted. | Verizon Switzerland AG | Egemen Cetinkaya |
| [**S5-253282**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253282.zip) | | FiberCop view on SA5 Rel-20 6G Priorities  **Leaders’ recommendation:** For information, **suggest to note 3282.**  Noted. | FiberCop | Simone Bizzarri |
| [**S5-253321**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253321.zip) | | Potential Impacts of RAN Evolution Towards a Service-Based Architecture (SBA) on Management Processes and Infrastructures in 6G  F: This document is for discussion. OAM may have different lifecycle if RAN adopts of SBA. Proposals will be bring to SA3/RAN3.  NEC: whether SBA has been discussed in RAN?  SS: SA5 already supported 5GC SBA. Do we need to enhance SA5 if RAN supports SBA?  N: 4.2.2 need to share more information about coordination models. Then we can decide what we could do more in SA5.  RT: 4.2.2 is not clear.  E: RAN SBA is RAN3 scope. SBMA is independent from whether RAN/5GC is SBA or not.  HW: agree with E. need to know what is RAN SBA first.  Noted. | FiberCop | Simone Bizzarri |
| [**S5-253356**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253356.zip) | | New SID on 6G Management and Orchestration  E: like to separate OAM prime and network support. Data framework could be split to two tasks.  SS: agree with E. WT#2 one sentence to cover all aspects of one topic. Like to keep the details scope for each topics.  N: difference to WT#1 and WT#2? WT#1 has data management framework , WT#2 also has data management.  N: move semantic network management under data management.  NEC: agree with Nokia on data management. Overlap between WT#1 and WT#2.  DT: there are ongoing discussion in SA2 on data management. Need to coordinate with SA2, there are overlap. Need to have clear worksplit. SA5 needs to be clear on what’s the scope of SA5.  M: we also have charging data management.  DCM: remove 1.4.  Offline comments on 2.3.3 and 2.3.10.  HW: WT 1.4 why limit to 3rd party?  WT 2.3.9 GHG?  Z: 5GA also has automation feature AIML/intent/NDT, what’s relation with 5GA?  QC: 2.3.2 overlap with 1.5.  N: suggest to category to the following categories.   * Management architecture * Data information and knowledge * Intelligent and automation * Others   E: 2.3.10 do not agree to limit to core network, remove cloud native network functions. Separate LCM from FCAPS features.  N: 2.3.10 reword “cloud management and orchestration”  1.5 reword to “study whether and how to support”  RT: 2.3.10 do not agree to limit to core network.  In 6G like to study orchestration of compute as a service in addition.  Like to keep the CMO study in 6G.  CMCC: WT#2   1. List of technologies for 6G OAM. 2. Detail of technologies.   HW: 2.3.10 question on what can we do for CMO in 6G? 6G RAN has not talked about cloud, so like to restrict this topic to core network. 28.500 only retrict to core network.  NEC: restore WT#3.  DCM: 2.3.10 do not agree to limit to core network,  CATT: separate OAM prime and support feature. Like to have clear worksplit between SA2 and SA5 for data management.  DT: 1.6 clarify on message bus? Need cooperate with SA2.  E: agree to take back WT#3 spec structure.  N: data management clearly separate data representation and how to manage the data.  HW: question on what will be captured in study if WT#3 is brought back.  Z: question on how to capture WT#3, do not agree to add WT#3. Suggest to use discussion paper.  SS/N/AT&T/VZ: bring back WT#3   * 3837   General:  E: 3 tasks:  Management architecture/  Management features with simple sentence for each feature  Specs considering external SDOs and operator requirements.  NDT:  O: keep NDT to data/semantics and anlystic  CATT: remove from “including”  F: sentence is too simple. NDT needs to add multi-domain aspects, NDT is not just for network optimization, it could also support other management processes.  CCL:  HW: need to discuss relation CCL and agent first, suggest to remove CCL. Why CCL is related to topology?  Semantic:  N: replace semantic with knowledge.  S: like to keep knowledge.  CU: Semantic and Knowledge  Data management:  NEC: remove data analytics.  Data management  Management data  Management of data management  HW: like to keep management data.  Z/HW: 1.6 should be aligned with 2.3.7.  E/SS: do not agree with Z/HW.  V/L: reword 1.6.  QC: prefer “Study management capabilities and mechanism for managing data.”  CATT: clarification on relation between 1.6 and 2.3.7. what data is discussion in 1.6?  Data Management: op1-Study management capabilities and mechanism for 6G management data.  Op2-Study management capabilities and mechanism for managing data.  N/HW/SS/DT/Z/O/CATT: op1  Z: data should be aligned with SA5 ToR.  Cloud:  Op-1 Study management and orchestration: Lifecycle management of NF Deployments and observability for NFs deployed in the cloud.  Op-2 Study further lifecycle management and observability for NFs realized in part or full by NF deployed in the cloud.  Group can’t reach agreement on the description.  HW: remove cloud topic from this meeting.  E: suggest to add a note.  AT&T: keep title and note.  Support to keep cloud topic in the study: Verizon/Nokia/ZTE/CMCC/Ericsson/Orange/Docomo/Rakuten/VDF/DT/AT&T/Fibercop  Not support to keep cloud topic in the study: Huawei.  WT#3:  SS: ask to add “O-RAN/TMF” as example in WT#3. There are 6 or 7 companes support to add O-RAN in NWM.  HW/Z: do not agree to add O-RAN.  N: add including defacto standards.  DT: SDOs and Forums.  CMCC: support DT proposal.  DT: remove the headline grouping. | China Unicom(Moderator) | Zhaoning Wang |
| [**S5-253357**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253357.zip) | | SA5 NWM Discussion for Rel-20 6G OAM Work Areas  **Leaders’ recommendation:** For information, **suggest to note 3357.** | China Unicom(Moderator) | Zhaoning Wang |
| [**S5-253637**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253637.zip) | | Suggestions for 6G OAM Study  SS: agree with proposal 1/3/4.  E: proposal 4 related to a removed work task in study. Not consistent with the current discussion.  N:  DT: alignment with SA2 work. Until December, it will be difficult to figure out the relation with SA5. Proposal 4 is good to show how to show 6G work in SA5.  NEC: like to add related WT to the study.  M: consistency inside SA5 OAM and CH.  N: like to have the work task related to proposal 4 in the study.  CMCC: suggest to start OAM prime feature 3 month behind of SA2. For support feature, we may need more time.  SS: for prime feature, we could decide without waiting for SA2.  E: the proposal 2 is more for network support feature.  CU: like to keep proposal 2 for network support feature. There is no support feature in 6G SA5 SID now.  M: checkpoint should be aligned OAM and CH.  N: proposal 3 and 4 should be reflected in SID proposals.  ->3835 | China Mobile, Verizon, SK Telecom, CATT, ZTE, Rakuten Mobile, NEC, Orange | Yushuang Hu |
| S5-253634 | | Discussion on unified management interface for multi-RAT support (4G/5G/6G)  E: clarify the scope, O1 is node interface, there is inconsistency between DP and SID. Whether it focusing on node interface?  Z: clarify whether it’s related to 6G? interworking 6G/4G is not in the scope of SA2.  N: what is unified multi-RAT?  HW: how O1 manage 4G/5G/6G is out scope of SA5. SA5 already has management of 4G/5G in 28.530.  SS: O1 is north bound of EM.  N: O1 is south bound interface between NF and EM. Agree with Huawei to check what is missing from 4G/5G management.  Noted. | Vodafone | Veronica Gonzalez Contreras |
| S5-253635 | | Unified Management interface for Multi-RAT support  N: WT1 is ok. WT2 need more clarification.  ->3833 | Vodafone | Veronica Gonzalez Contreras |
| S5-253636 | | LS on unified management interface for multi-RAT support (4G/5G/6G)  ->3834 | Vodafone | Veronica Gonzalez Contreras |
| S5-253647 | | Discussion on configuration of security related events handling  N: why it’s WID? Whether there is any recommendation from SA3? Suggest to do study first.  V: SA3 normative work to be finished in December. SA5 should move forward with normative work.  SS: need to discuss in more detail. The events to be defined in SA3, how to report is in SA5.  Z: ok to have normative work in SA5. But do not agree to work in parallel with SA3.  V: will bring a WID to October meeting. The intention is SA5 to provide configuration to monitor security events.  E: suggest to revise adNRM to cover this topic. SA3 hasn’t defined security events.  V: SA5 can work in parallel with SA3. SA3 is discussing events this week.  HW: is it only about configuration or also includes reporting of events?  V: configuration should be done in SA5, the reporting part is under discussion in SA3.  Noted. | Vodafone | Veronica Gonzalez Contreras |
| 5.6. Elections (Monday 25 Aug. 10:15-11:15) | | | | |
| 6. OAM&P | | | | |
| 6.1. OAM&P Plenary | | | | |
| S5-253209 | | OAM action list  **Leaders’ recommendation:** Keep open until closing plenary for further update. Suggest to note 3209.  **To be noted in closing plenary.** | WG Vice Chair (Nokia) | Anatoly Andrianov |
| S5-253210 | | OAM Exec Report  **Leaders’ recommendation:** for information. Suggest to note 3210.  **Reminder from leaders:** rapporteurs please provide the executive report and the completion rate according to template before meeting closed on Friday. The completion rate is to be checked in closing plenary.  **To be noted in closing plenary.** | WG Vice Chair (Nokia) | Anatoly Andrianov |
| S5-253212 | | Collection of useful endorsed documents in OAM  **Leaders’ recommendation:** for information. Suggest to note 3212.  **To be noted in closing plenary.** | WG Vice Chair (Nokia) | Anatoly Andrianov |
| S5-253213 | | Collection of external communication documents in OAM  **Leaders’ recommendation:** for information. Suggest to note 3213.  **To be noted in closing plenary.** | WG Vice Chair (Nokia) | Anatoly Andrianov |
| S5-253221 | | OAM breakout notes  **Leaders’ recommendation:** for information. Suggest to note 3221.  **To be noted in closing plenary.** | WG Chair | Lan Zou |
| **Continuous MDT:** 12 Continuous MDT LS/CR/DP are S5-253229, S5-253230, S5-253231, S5-253232, S5-253233, S5-253668, S5-253669, S5-253670, S5-253734, S5-253736, S5-243522, S5-253511 | | | | |
| [**S5-253296**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253296.zip) | | Reply LS to S5-252114 on Continuous MDT (R3-253958; to: SA5; cc: -; contact: Ericsson)  Draft reply in 3229/3511/3734/3668. | RAN3 | Joern Krause |
| [**S5-253229**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253229.zip) | | Reply to LS on Continuous MDT  N:  E: the following solutions could be merged into one.  HW solution (3522): QC prefers HW solution considering security issues..  E solution (3230/3231/3232/3233)  ZTE solution (3736)  CATT solution: Nokia prefers CATT solution, but still has some drawbacks to address. (3669/3670)  HW: two issues to be included in reply LS.  feasibility check  Security issue  -> 3848 (BO)  D2:  N: like to ask SA3.  HW/CATT/E: do not see security concern.  QC: RAN3 could check with SA3.  NEC: like to involve SA3. | Ericsson Japan K.K. | Qiang Zu |
| [**S5-253511**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253511.zip) | | Reply LS on LS on Continuous MDT  Merge into 3848 | Huawei | xiaoli Shi |
| S5-253734  **(late)** | | Reply LS on Continuous MDT  Merge into 3848 | ZTE Corporation | Bangqiu Ruan |
| [**S5-253668**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253668.zip) | | Reply LS on Continous MDT.docx  Merge into 3848 | CATT | Min Shu |
| [**S5-253287**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253287.zip) | | Reply LS to R1-2410922 = S5-250281 on signalling feasibility of dataset and parameter sharing (R2-2503169; to: RAN1, RAN3, SA2, SA5; cc: SA3; contact: Xiaomi)  RAN2 respectfully asks RAN3/SA2/SA5 to confirm RAN2 assumption on non-OTA solutions.  Draft reply in 3513. | RAN2 | Joern Krause |
| [**S5-253297**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253297.zip) | | Reply LS to R2-2503169 = S5-253287 on signalling feasibility of dataset and parameter sharing (R3-253961; to: RAN2, RAN1; cc: SA2, SA5, SA3; contact: Xiaomi)  RAN3 reply to RAN2 LS. SA5 is in cc. Suggest to note 3297. | RAN3 | Joern Krause |
| [**S5-253513**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253513.zip) | | Reply LS on signalling feasibility of dataset and parameter sharing  SS: SA5 assumes that the NW-side dataset/model parameter can serve as a category for management data, SA5 would like confirmation of this assumption from TSG RAN2.is wrong.  E: we don’t know the dataset yet. Concern on UE data collection.  Online update version is produced for further offline discussion.  -> 3849  Offline (SS/NEC/E/HW/DCM/CATT/Z/N)  D4: rewording. | Huawei | xiaoli Shi |
| [**S5-253288**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253288.zip) | | Reply LS to S2-2413030 = S5-250292 and S5-247311 on OAM requirements to support regenerative payload transport links (R3-250895; to: SA2, SA5; cc: -; contact: CATT)  The existing NG signalling procedures for supported TAI list update are expected to work as legacy. However, some NTN scenarios (e.g. NGSO NTN scenarios) benefit from the RAN3 agreements on OAM based solution.  **Leaders’ recommendation:** action for SA5.  **Need volunteer to draft reply from SA5.**  Draft reply LS in 3850 (China Unicom) | RAN3 | Joern Krause |
| **S5-253850** | | Reply LS to S2-2413030 = S5-250292 and S5-247311 on OAM requirements to support regenerative payload transport links | China Unicom | Sun Mingrui |
| [**S5-253300**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253300.zip) | | Reply LS to R3-250895 = S5-252345 = S5-251327 and S5-250842 on OAM requirements to support regenerative payload transport links (S2-2505961; to: RAN3, SA5; cc: SA, RAN; contact: CATT)  SA2 discussed the solution proposed by RAN3/SA5 in their LS and did not reach consensus to introduce any enhancement to SA2’s specification.  **Leaders’ recommendation:** SA2 reply to RAN3, suggest to note 3300. | SA2 | Joern Krause |
| [**S5-253289**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253289.zip) | | Reply LS to S5-251090 on MWAB-gNB Configurations (S2-2504380; to: SA5; cc: RAN3; contact: Qualcomm)  Regarding the configurations from OAM server, SA2 had documented the MWAB-gNB configuration/provisioning in TS 23.501 clause 5.49.2.2. As stated in the descriptions, SA2 assumes that:  It is expected the OAM of the MWAB Broadcasted PLMN/SNPN is aware of location in which the MWAB operation can be authorized and also can obtain MWAB's current location.  Specifically, besides the required configurations for a normal gNB, a MWAB-gNB would require the following optional configurations from the OAM server of the MWAB Broadcasted PLMN/SNPN  **Leaders’ recommendation:** action for SA5. Related tdoc 3615. **Need volunteer to draft reply from SA5.**  Draft reply LS in 3851 (Samsung) | SA2 | Joern Krause |
| **S5-253851** | | Reply LS to S5-251090 on MWAB-gNB Configurations | Samsung | Deepanshu |
| [**S5-253290**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253290.zip) | | Reply LS to R3-253755 = S5-253292 on Number of UEs in RRC\_INACTIVE state with data transmission (R2-2504746; to: RAN3, SA5; cc: -; contact: China Telecom)  RAN2 respectfully asks RAN3/SA5 to take into account the information above and provides feedback if there is any concern regarding the RAN2 endorsed CR in R2-2504742.  **Leaders’ recommendation:** action for SA5. **Need volunteer to check the relevance to SA5.**  Related CR 3405  Draft reply LS in 3852(China Telecom) | RAN2 | Joern Krause |
| S5-253852 | | Reply LS to R3-253755 = S5-253292 on Number of UEs in RRC\_INACTIVE state with data transmission  D1: rewording | China Telecom | Chen Xiu min |
| [**S5-253292**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253292.zip) | | Reply LS to R2-2503181 = S5-252339 on Number of UEs in RRC\_INACTIVE state with data transmission (R3-253755; to: RAN2; cc: SA5; contact: Nokia)  RAN3 kindly requests RAN2 to leave the existing measurement in TS 38.314 as is, and to define a new separate measurement specific for the number of RRC\_INACTIVE UEs in a cell with ongoing SDT.  **Leaders’ recommendation:** action for SA5. **Need volunteer to check the relevance to SA5.** | RAN3 | Joern Krause |
| **S5-253852** | | Reply LS on Number of UEs in RRC\_INACTIVE state with data transmission | China Telecom | Chen Xiu min |
| [**S5-253291**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253291.zip) | | LS on Logged Data Handling During Handover (R2-2504950; to: RAN3; cc: SA5; contact: Nokia)  RAN2 would like to clarify that the data collection configuration could originate in the source gNB or from OAM. RAN2 would also like to clarify that the purpose of data availability indication in RRCReconfigurationComplete message sent during handover is for the target gNB to be able to fetch the collected data from the UE.  **Leaders’ recommendation:** RAN2 reply to RAN3. **Suggest to note 3291.** | RAN2 | Joern Krause |
| [**S5-253293**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253293.zip) | | Reply LS to S2-2504288 = S5-252343 on Ambient IoT progress of RAN3 on A-IoT Area (R3-253802; to: SA2; cc: SA5; contact: NEC)  **Leaders’ recommendation:** RAN3 reply to SA2. SA5 is in cc. **Suggest to note 3293.** | RAN3 | Joern Krause |
| [**S5-253294**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253294.zip) | | Reply LS to S5-251771 on Ambient IoT progress of RAN3 on OAM requirements (R3-253803; to: SA5, SA2; cc: -; contact: Huawei)  Draft reply in 3431. | RAN3 | Joern Krause |
| [**S5-253431**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253431.zip) | | Reply LS on Ambient IoT progress of RAN3 on OAM requirements  SS: comment on CR.  Related CR 3433.  ->3853 | Huawei, China Unicom | Xian Zhao |
| [**S5-253295**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253295.zip) | | Reply LS to S5-252056 on per-UE UE performance metrics (R3-253816; to: SA5, RAN2; cc: -; contact: Nokia)  RAN3 would like to further ask whether it is feasible to specify the above Packet Loss Rate metrics with a per-DRB per-UE granularity in the UL and DL at PDCP layer, which may also be aggregated to reflect a per-UE Packet Loss Rate metric.  If the above is feasible then RAN3 would like to ask SA5 to carry out specification work accordingly.  Draft reply in 3512/3729 | RAN3 | Joern Krause |
| [**S5-253512**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253512.zip) | | Reply LS on per-UE UE performance metrics  MCC: should be Rel-18.  N: suggest to clarify the incoming LS.  E: reword “SA5 has modified SA5 specifications in TS 28.558 to specify the measurements.”  NEC: clarify what is the change in CR.  ->3854 | Huawei | xiaoli Shi |
| S5-253729  **(late)** | | Reply LS on per-UE UE performance metrics  Merge into 3854 | ZTE Corporation | Bangqiu Ruan |
| [**S5-253298**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253298.zip) | | Reply LS to R2-2503170 = S5-252842 on OAM-centric solution for NW-side data collection (R3-253962; to: RAN2; cc: SA5; contact: ZTE)  **Leaders’ recommendation:** RAN3 reply to RAN2. SA5 is in cc. **Suggest to note 3298.** | RAN3 | Joern Krause |
| [**S5-253302**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253302.zip) | | Reply LS to S5-251112 on the scope attribute of the access token standard claims (S3-252260; to: SA5; cc: CT3, SA6; contact: Nokia)  **Leaders’ recommendation:** SA3 reply to SA5. **Suggest to note 3302.** | SA3 | Joern Krause |
| [**S5-253304**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253304.zip) | | LS on ZSM work on Agent and Autonomy (ETSI ISG ZSM(25)000129r1; to: SA5, TM Forum, IETF OPS Area, IRTF NMRG, IETF ART Area, ITU-T SG11, ITU-T SG13, ITU-T SG15, CCSA TC7, ETSI ISG F5G, ETSI ISG NFV, ETSI ISG ENI; cc: -; contact: Huawei)  Draft reply in 3444. | ETSI ISG ZSM | Joern Krause |
| S5-253444 | | Reply LS on ZSM work on Agent and Autonomy  D1 is uploaded in inbox/draft.  D2:  C: suggest to put concrete actions in LS. | Huawei | Ruiyue Xu |
| [**S5-253479**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253479.zip) | | DP Usage of X2HOBlackList in NR-NRM  HW: do not agree to remove this attribute. Should check section 10.3/10.8 in TS 37.340.  Keep Open.  ->4081 | Rakuten Mobile, Inc | Ravi Chamarty |
| [**S5-253660**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253660.zip) | | LS to ITU-T SG2 on methodology coordination  DT: suggest to add the link to the specifications.  C: typo.  ->3855  3855 pre-approved. | SA5 VC (Ericsson) | Thomas Tovinger |
| 6.2. New OAM&P Work Item proposals | | | | |
| 6.2.1 Intelligence and Automation | | | | |
| 6.2.2 Management Architecture and Mechanisms | | | | |
| 6.2.3 Support of New Services | | | | |
| 6.3. Pre-Rel-18 Maintenance | | | | |
| 6.3.1 Methodology | | | | |
| 6.3.2 ANL | | | | |
| 6.3.3 MDAS | | | | |
| 6.3.4 AI/ML | | | | |
| 6.3.5 Energy efficiency | | | | |
| [**S5-253735**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253735.zip) | | Rel-19 CR TS28.310 Correct reference clause EnergySupplyInfo  H: We have some rewording suggestion, offline.   * 3990 | ZTE Corporation | Bangqiu Ruan |
| 6.3.6 Intent driven management | | | | |
| 6.3.7 SON | | | | |
| 6.3.8 QMC | | | | |
| 6.3.9 Network slicing management | | | | |
| 6.3.10 MEC management | | | | |
| 6.3.11 General NRM | | | | |
| [**S5-253270**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253270.zip) | | Rel-17 CR 28.622 Update File IOC  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253271**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253271.zip) | | Rel-18 CR 28.622 Update File IOC  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253272**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253272.zip) | | Rel-19 CR 28.622 Update File IOC  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253273**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253273.zip) | | Rel-17 CR 28.623 Update File IOC  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253274**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253274.zip) | | Rel-18 CR 28.623 Update File IOC  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253275**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253275.zip) | | Rel-19 CR 28.623 Update File IOC  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253443**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253443.zip) | | Rel-18 CR TS 28.541 correction to NR NRM stage 2 stage 3 inconsistence  CTC: 3664 is merged into this   * 3991 | China Telecom Corporation Ltd., Nokia, Nokia Shanghai Bell | Xiumin Chen |
| [**S5-253527**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253527.zip) | | Rel19 CR TS 28.541 correction to NR NRM stage 2 stage 3 inconsistence  CTC: 3665 is merged into this   * 3992 | China Telecom Corporation Ltd., Nokia, Nokia Shanghai Bell | Xiumin Chen |
| [**S5-253482**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253482.zip) | | Rel-16 CR 28.541 Update sector equipment and antenna function yang  E: I got comments offline from H, posted a revision in rev1.   * 3993 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253483**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253483.zip) | | Rel-17 CR 28.541 Update sector equipment and antenna function yang  MCC comments.  MCC: Wrong release (Rel-16) in the cover page.   * 3994 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253484**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253484.zip) | | Rel-18 CR 28.541 Update sector equipment and antenna function yang   * 3995 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253485**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253485.zip) | | Rel-19 CR 28.541 Update sector equipment and antenna function yang  MCC comments.  MCC: Wrong release on cover sheet   * 3996 | Ericsson Canada Inc. | Mark Scott |
| 6.3.12 PM/KPI | | | | |
| 6.3.13 Trace/MDT | | | | |
| [**S5-253730**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253730.zip) | | Rel-16 CR TS 28.623 Correction of Trace Target (yaml)  E: This is Rel-16 so it needs to update the Annex with yaml code, and update Clauses affected  H: enum value for traceTarget type is not aligned with stage 2.   * 3997   Nokia ask to withdrawn 3997 | Nokia | [**S5-253730**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253730.zip) |
| [**S5-253731**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253731.zip) | | Rel-17 CR TS 28.623 Correction of Trace Target (yaml)  E: This is Rel-16 so it needs to update the Annex with yaml code, and update Clauses affected  H: enum value for traceTarget type is not aligned with stage 2.   * 3998   Nokia ask to withdrawn 3998 | Nokia | [**S5-253731**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253731.zip) |
| [**S5-253732**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253732.zip) | | Rel-18 CR TS 28.623 Correction of Trace Target (yaml)  H: enum value for traceTarget type is not aligned with stage 2.  E: Missing N4-sessionId   * 3999   Nokia ask to withdrawn 3999 | Nokia | [**S5-253732**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253732.zip) |
| [**S5-253733**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253733.zip) | | Rel-19 CR TS 28.623 Correction of Trace Target (yaml)  H: enum value for traceTarget type is not aligned with stage 2.  E: Missing N4-sessionId   * 4000 Cat F/TEI 19 | Nokia | [**S5-253733**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253733.zip) |
| [**S5-253737**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253737.zip) | | Rel-19 CR TS32.422 Fix wrong message description in MDT activation in 5GC and NG-RAN after UE attachment  E: Wrong to remove the statement “UDM sent to AMF”  N: Offline comments. Also including same comment as E.   * 4001 | ZTE Corporation | [**S5-253737**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253737.zip) |
| 6.3.14 Other | | | | |
| [**S5-253250**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253250.zip) | | Rel-18 CR 32.158 Clarify 3GPP JSON Patch  Agreed | Nokia | Olaf Pollakowski |
| [**S5-253652**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253652.zip) | | Rel-16 CR 32.312 Wrong reference  Agreed | Ericsson | Thomas Tovinger |
| [**S5-253653**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253653.zip) | | Rel-17 CR 32.312 Wrong reference  Agreed | Ericsson | Thomas Tovinger |
| [**S5-253654**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253654.zip) | | Rel-18 CR 32.312 Wrong reference  Agreed | Ericsson | Thomas Tovinger |
| [**S5-253686**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253686.zip) | | Rel-16 CR 28661 Alignment with 36.106  Agreed | Ericsson | Robert Petersen |
| [**S5-253687**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253687.zip) | | Rel-17 CR 28661 Alignment with 36.106  MCC comments.  MCC: Should be Cat-A.   * 4002 pre-agreed | Ericsson | Robert Petersen |
| [**S5-253688**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253688.zip) | | Rel-18 CR 28661 Alignment with 36.106  MCC comments.  MCC: Should be Cat-A.   * 4003 pre-agreed | Ericsson | Robert Petersen |
| [**S5-253689**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253689.zip) | | R16 CR 28662 Correct references to align with RAN specifications  Agreed | Ericsson | Robert Petersen |
| **[S5-253690](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253690.zip)** | | R17 CR 28662 Correct references to align with RAN specifications  MCC comments.  Reallocate 6.4.14->6.3.14  MCC: Cat should be A.   * 4004 pre-agreed | Ericsson | Robert Petersen |
| [**S5-253691**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253691.zip) | | R18 CR 28662 Correct references to align with RAN specifications  MCC comments.  MCC: Cat should be A.   * 4005 pre-agreed | Ericsson | Robert Petersen |
| [**S5-253692**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253692.zip) | | R19 CR 28662 Correct references to align with RAN specifications  MCC comments.  MCC: Cat should be A.   * 4006 pre-agreed | Ericsson | Robert Petersen |
| 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 | | | | |
| [**S5-253373**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253373.zip) | | Rel-19 CR 28.104 Add missing illustration name  MCC comments.  ->3929  3929 agreed as in d1. | Ericsson | Gang Li |
| 6.4.3 AI/ML management | | | | |
| [**S5-253476**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253476.zip) | | Rel-18 CR TS 28.105 Correct associations on Training NRM fragment  SS: clarify FASMO.  NEC: agree with SS.  Not Pursued | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253477**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253477.zip) | | Rel-19 CR TS 28.105 Correct associations on Training NRM fragment  HW: inconsistency mLModelCoordinationGroupRef/ mLModelGeneratedRef  N: 7.3a.1.2.4.1 When the trigger is a consumer-initiated training request, the MLTrainingProcess instance is associated to one MLTrainingRequest instance.?  MCC: cat F, TEI-19  ->3930 | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253501**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253501.zip) | | Rel 18 TS 28.105 Correct missing Associated information entities  MCC comments.  ->3931  3931 pre-agreed. | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253502**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253502.zip) | | Rel 19 TS 28.105 Correct missing Associated information entities  MCC comments.  HW: LMF should be added.  ->3932 | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253503**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253503.zip) | | Rel-18 CR TS 28.105 Correct Information model definition  MCC comments.  HW: revision is conflicting with draftCR.   * 3933 | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253505**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253505.zip) | | Rel-19 CR TS 28.105 Correct Information model definition  MCC comments.  Not pursued  Need to be replaced by Rel-19 inputs to draftCR | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| **S5-253934** | | Rel-19 input to draftCR TS 28.105 Correct Information model definition  Use latest draftCR as baseline for modification. | Ericsson | Jose |
| [**S5-253506**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253506.zip) | | Rel 18 TS 28.541 correct aIMLInferenceFunctionRefList  MCC comments. WI code to be updated  ->3935  3935 pre-agreed. | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253507**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253507.zip) | | Rel 19 TS 28.541 correct aIMLInferenceFunctionRefList  MCC comments.  ->3936  3936 pre-agreed. | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253508**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253508.zip) | | Rel 18 TS 28.105 Correct Common notifications definition  MCC comments. WI code to be updated  ->3937  3937 pre-agreed. | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253509**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253509.zip) | | Rel 19 TS 28.105 Correct Common notifications definition  MCC comments.  ->3938  3938 pre-agreed. | Ericsson GmbH, Eurolab | Cintia Rosa Bolzek |
| [**S5-253631**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253631.zip) | | Rel-18 CR TS 28.105 Correction on the isWritable propoerty of AIMLInferenceName in the MLTrainingRequest  E: should be merged with 3474, note is wrong.  Keep open.  ->4074 | ZTE Corporation | Pengxiang Xie |
| [**S5-253632**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253632.zip) | | Rel-19 CR TS 28.105 Correction on the isWritable propoerty of AIMLInferenceName in the MLTrainingRequest  E: should be merged with 3474  Z: do not agree with merge.  Keep open | ZTE Corporation | Pengxiang Xie |
| 6.4.4 Intent driven Management Service for mobile network phase 2 | | | | |
| [**S5-253718**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253718.zip) | | Update Clause 5.3.8 Utility Function  MCC comments.  Agreed | Ericsson Inc. | Pedro Henrique Gomes |
| [**S5-253719**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253719.zip) | | Update intent report control  Rel-19 CR, title to be updated.  MCC comments.  HW: do not agree with change of support qualifier, do not agree with change the multiplicity.  E: concern on observationPeriod.  -> 3940  3940 agreed as in d1. | Ericsson Inc. | Pedro Henrique Gomes |
| [**S5-253721**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253721.zip) | | Update intent report types  Rel-19 CR, title to be updated.  MCC comments.WI code.  HW: suggest to merge report type related update into 3659. Stage 3 is missing.  ->3941  3941 agreed as in d1. | Ericsson Inc. | Pedro Henrique Gomes |
| [**S5-253722**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253722.zip) | | Update Annex C  Rel-19 CR, title to be updated.  MCC comments. WI code to be updated.  ->3942  3942 agreed as in d1. | Ericsson Inc. | Pedro Henrique Gomes |
| [**S5-253723**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253723.zip) | | Update Annex C  Rel-18 CR, title to be updated.  MCC comments.  Not Pursued. | Ericsson Inc. | Pedro Henrique Gomes |
| 6.4.5 Service based management architecture | | | | |
| [**S5-253227**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253227.zip) | | Rel-19 CR 32.160 Clarify YANG mapping rules  MCC: reallocate to Rel-18  Agreed. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253228**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253228.zip) | | Rel-19 CR 28.536 Remove deprecated notifyChangedAlarm  MCC: reallocate to Rel-18  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253284**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253284.zip) | | Rel-19 CR 28.111 Remove notifyChangedAlarm  Reallocate 6.19.8.1->6.4.5  MCC: reallocate to Rel-18  Agreed. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253276**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253276.zip) | | Rel-18 CR 28.111 Clarify FM behavior  DCM: manuallyCleared name to be updated.  SS: not FASMO.  Not Pursued. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253277**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253277.zip) | | Rel-19 CR 28.111 Clarify FM behavior  DCM: manuallyCleared name to be updated.  N: need more justification on adding new attributes.  MCC: cat F.  ->3939  3939 agreed as in d1. | Ericsson Hungary Ltd | Balazs Lengyel |
| **[S5-253328](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253328.zip)** | | Rel-18 CR 28.541 NR-NRM corrections  MCC comments.  Reallocate 6.4.27->6.4.5  HW: disagree to remove externalAMFFunction.  Keep open  E: After offline, wish to Note this tdoc.  Not pursued | Ericsson Hungary Ltd | Balazs Lengyel |
| **[S5-253286](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253286.zip)** | | Rel-19 CR 28.541 NR-NRM corrections  MCC comments.  Reallocate 6.4.27->6.4.5  Keep open   * 3972 | Ericsson Hungary Ltd | Balazs Lengyel |
| 6.4.6 Network slicing provisioning rules | | | | |
| 6.4.7 Network slice provisioning enhancement | | | | |
| 6.4.8 Management of Trace/MDT phase 2 | | | | |
| [**S5-253467**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253467.zip) | | Rel-18 CR TS 28.622 Update area scope definition for NPN support (stage 2)  N: CHOICE\_2.2/3.2/4.2-> cAGIdList  5.1 should be M.  ->3943 | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253468**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253468.zip) | | Rel-19 CR TS 28.622 Update area scope definition for NPN support (stage 2)  N: CHOICE\_2.2/3.2/4.2-> cAGIdList  5.1 should be M.  ->3944 | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253469**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253469.zip) | | Rel-19 CR TS 28.623 Update area scope definition for NPN support (stage 3)  ->3946 | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253478**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253478.zip) | | Rel-18 CR TS 28.623 Update area scope definition for NPN support (stage 3)  ->3945 | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253649**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253649.zip) | | Rel-18 CR TS 28.623 Correction on MDT PLMN List (yaml)  Revised to 3728  MCC comments. | Nokia | Christiane Allwang |
| [**S5-253728**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253728.zip) | | Rel-18 CR TS 28.623 Correction of MDT PLMN List (yaml)  Agreed | Nokia | Christiane Allwang |
| [**S5-253650**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253650.zip) | | Rel-19 CR TS 28.623 Correction of MDT PLMN List  Agreed. | Nokia | Christiane Allwang |
| 6.4.9 5G performance measurements and KPIs phase 3 | | | | |
| [**S5-253714**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253714.zip) | | Rel-18 CR TS 28.554 Editorial Corrections for Retainability KPI Definition  HW: cat B?  Not Pursued. | Nokia | Sreekumar Pothera Kalloor |
| [**S5-253715**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253715.zip) | | Rel-19 CR TS 28.554 Editorial Corrections for Retainability KPI Definition  E: remove the new line.  MCC: WI code is to be updated.  ->3947 | Nokia | Sreekumar Pothera Kalloor |
| [**S5-253726**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253726.zip) | | Rel-18 CR TS28.558 Fix Measurement Object Class description for UL PDCP SDU Loss Rate  N: reason for change is not clear.  E: do not agree with change.  Z: After offline disc. E agrees to revise it.   * 3973   3973 agreed as in d1 | ZTE Corporation | Bangqiu Ruan |
| [**S5-253727**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253727.zip) | | Rel-19 CR TS28.558 Fix Measurement Object Class description for UL PDCP SDU Loss Rate  Z: After offline disc. E agrees to revise it.   * 3974   3974 agreed as in d2 | ZTE Corporation | Bangqiu Ruan |
| 6.4.10 Enhancement of QoE Measurement Collection | | | | |
| [**S5-253239**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253239.zip) | | Rel-18 CR TS 28.406 Corrections on QoE Metric  MCC comments.  -> 3948  3948 Pre-Agreed. | Ericsson | Qiang Zu |
| 6.4.11 Additional NRM features phase 2 | | | | |
| [**S5-253662**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253662.zip) | | Rel-18 CR TS 28.541 Correction on diagram and description on EP\_Rx  MCC comments.  E: typo  MCC: WI code to be updated.  ->3949  Pre-agreed. | CATT | Min Shu |
| [**S5-253663**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253663.zip) | | Rel-19 CR TS 28.541 Correction on diagram and description on EP\_Rx  MCC comments.  E: typo  MCC: WI code to be updated.  ->3950  Pre-agreed. | CATT | Min Shu |
| [**S5-253664**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253664.zip) | | Rel-18 CR TS 28.541 Correction on the inconsistent definition in stage3  MCC comments.  MCC: WI code to be updated.  CATT: Merge into 3443-> 3991 | CATT | Min Shu |
| [**S5-253665**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253665.zip) | | Rel-19 CR TS 28.541 Correction on the inconsistent definition in stage3  MCC comments.  CATT: merge into 3527 -> 3992 | CATT | Min Shu |
| 6.4.12 Management Aspects related to NWDAF | | | | |
| 6.4.13 Enhanced Edge Computing Management | | | | |
| 6.4.14 Management Aspect of 5GLAN | | | | |
| 6.4.15 Management Aspects of NTN | | | | |
| [**S5-253666**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253666.zip) | | Rel-19 CR TS 28.540 Requirements for configuring AMF with TAIs supported by NTN gNB  MCC comments.  MCC: Cover page issues  Q: This is based on some SA2 discussion but the consensus is not reached yet in SA2, so it is too early to agree here.  S: This was discussed multiple times, and is a disagreement between RAN3 and SA2. Now we think SA5 should agree these CRs based on the RAN3 request to SA5 as they were already endorsed at SA5#161, sending them to SA for approval. Please add S as co-signing company.  Vfe: We object to this CR as this has not been agreed in SA2.  Q: We also object to this CR for the same reason.  CATT: In RAN3 they plan to specify in stage 2 that they want to have the OAM-based solution. So now what can we do before Rel-19 is frozen?  VC: We could send an LS to SA asking them to take action on this.  DTAG: We could also add an action in the SA5 report to SA to consider this. SP-250438 is the LS from SA2 to SA stating that SA2 could not reach consensus on the RAN3 proposal.  Vfe: SA2 is responsible for the CN architecture so without an SA2 decision we cannot do anything like this.   * Postponed | CATT | Min Shu |
| [**S5-253667**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253667.zip) | | Rel-19 CR TS 28.541 NRM enhancement for configuring AMF with TAIs supported by NTN gNB  MCC comments.  See comments on 3666  Postponed | CATT | Min Shu |
| 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 | | | | |
| 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 | | | | |
| [**S5-253463**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253463.zip) | | Rel-18 CR TS 28.319 Clarify default behaviour for access control  S: We object to doing this for R18. For R19 (3464), we have comments.  N: Agree with S.  Not pursued | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253464**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253464.zip) | | Rel-19 CR TS 28.319 Clarify default behaviour for access control  N: We have not discussed this yet. So we cannot agree to the change. In R20 we could do this in the enhanced exposure study.  E: The R20 study is not the right place to have this discussion.  H: We support the intention from E and like to co-sign it. We are discussing the default system behaviour, so I would like to hear some technical comments on this for Rel-19.   * 3955 | Ericsson | Jose Antonio Ordoñez Lucena |
| [**S5-253465**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253465.zip) | | Rel-18 CR TS 28.319 Correct errors on the MSAC information model  N: Why is the text below fig. 6-1 removed? This is important information?  E: This info is already present in the next clause.  N: I think there is no harm in saying this also here.  N: Why removing “notification types” in the text above 7.3.3.2? Don’t agree to that.   * 3953 | Ericsson España | Jose Antonio Ordoñez Lucena |
| [**S5-253466**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253466.zip) | | Rel-19 CR TS 28.319 Correct errors on the MSAC information model  Mirror. See comments on 3465.   * 3954 | Ericsson | Jose Antonio Ordoñez Lucena |
| 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 | | | | |
| 6.4.25 Rel-18 CAT B/C alignment CR(s) due to the work led by other 3GPP Working Groups | | | | |
| 6.4.26 Rel-18 CAT B/C SA5 internal alignment and other CAT F CR(s) | | | | |
| [**S5-253223**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253223.zip) | | Rel-18 CR 28.623 YANG stage-3 corrections  E: I got offline comments, need a revision. Updates already in Forge.   * 3956   3956 agreed as in d1 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253224**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253224.zip) | | Rel-19 CR 28.623 YANG stage-3 corrections  MCC comments.  E: I got offline comments, need a revision. Updates already in Forge.   * 3957   3957 agreed as in d3 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253225**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253225.zip) | | Rel-18 CR 28.541 YANG stage-3 corrections  E: I got offline comments, need a revision. Updates already in Forge.   * 3958   3958 agreed as in d1 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253226**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253226.zip) | | Rel-19 CR 28.541 YANG stage-3 corrections  MCC comments.  E: I got offline comments, need a revision. Updates already in Forge.   * 3959   3959 agreed as in d1 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253346**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253346.zip) | | Rel-18 CR 28.111 Probable Cause codes  H: The cause is in Annex B which is informative. So why do it normatively in stage 3?  E: Because many people have complained about inconsistencies in string fonts etc.  H: Then there is an inconsistency betwee´n stage 2 and stage 3, them I suggest you add a note in stage 3 that this is a recommendation.  E: Ok   * 3960   3960 agreed as in d1 | Ericsson Hungary Ltd | Balazs Lengyel |
| S5-253347 | | Rel-19 CR 28.111 Probable Cause codes  Revised to 3372.  3347 not available  MCC comments.  Withdrawn. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253372**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253372.zip) | | Rel-19 CR 28.111 Probable Cause codes  MCC comments.  MCC: Wi code.  Mirror.   * 3961   3961 agreed as in d1 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253348**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253348.zip) | | Rel-18 CR 28.532 Correct notifyMOIChanges YANG mapping  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253349**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253349.zip) | | Rel-19 CR 28.532 Correct notifyMOIChanges YANG mapping  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| 6.4.27 OAM Rel-19 small enhancements | | | | |
| [**S5-253240**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253240.zip) | | Rel-19 CR TS 28.560 Small Corrections on STM  MCC comments.  MCC: WI code…  N: Don’t agree to remove “management” in the in introduction.  E: But this is consistent with the requirements, there is no “management”.   * 3962   3962 agreed as in d1 | Ericsson | Qiang Zu |
| [**S5-253241**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253241.zip) | | Rel-19 CR TS 28.560 STM Security Requirements  MCC comments.  Vfe: Better to postpone this as it needs discussion in SA3 to conclude first.  N: “STM reporting consists of copies of STM signalling message…” should be “STM reporting consists of copies of signalling messages…”  N: The whole last change belongs to SA3 responsibility so it should be removed from here.  Not pursued | Ericsson | Qiang Zu |
| [**S5-253244**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253244.zip) | | Rel-19 CR TS 28.532 Deprecate subscribe-unsubscribe operations in File reporting service  E: Minor comments, offline   * 3963 | Huawei | Ruiyue Xu |
| [**S5-253245**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253245.zip) | | Rel-19 CR TS 28.550 Deprecate subscribe-unsubscribe operations in File reporting service  E: Minor comments, offline   * 3964 | Huawei | Ruiyue Xu |
| [**S5-253247**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253247.zip) | | Rel-19 CR TS 28.623 Correct the misalignment for the YANG SS for adminstrativeState in ThresholdMonitor and PerfMetricJob  E: Minor issue in Yang…   * 3965   3965 agreed as in d1 | Huawei | Ruiyue Xu |
| [**S5-253252**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253252.zip) | | Rel-19 CR TS 28.312 Clean up  Revised to 3659. | Huawei | Ruiyue Xu |
| [**S5-253659**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253659.zip) | | Rel-19 CR TS 28.312 Clean up  MCC comments.  MCC: WI code.  CMCC: Offline comments   * 3966   3966 agreed as in d1 | Huawei, Ericsson | Ruiyue Xu |
| [**S5-253253**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253253.zip) | | Rel-19 CR TS 28.312 Correct RESTful HTTP-based solution set for intent driven management  Agreed | Huawei | Ruiyue Xu |
| [**S5-253254**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253254.zip) | | Rel-19 CR TS 28.312 Correct issues for stage3 YAML files  MCC comments.  MCC: WI code  H: There are also some stag2 CRs that have impact on this.   * 3967   3967 agreed as in d1 | Huawei | Ruiyue Xu |
| [**S5-253258**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253258.zip) | | DP on removing meaningless text from NRM specifications  Revised to 3267 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253267**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253267.zip) | | DP on removing meaningless text from NRM specifications  H: Prefer to keep the same template for all attributes. So we disagree to this. We could add a sentence that it is not applicable.  E: This is only proposed to be followed for future TSs, e.g. for 6G.  H: Why then update the 5G template? We don’t agree to this for 5G.  Noted | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253259**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253259.zip) | | Rel-19 CR 32.160 Remove unneeded, meaningless text from NRM  MCC comments.  H: Same comment as for 3267. We can discuss if we can find a solution for R20 5GA.  Keep open | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253260**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253260.zip) | | Rel-19 CR 32.156 Remove meaningless properties  Revised to 3266  MCC comments. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253266**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253266.zip) | | Rel-19 CR 32.156 Remove meaningless properties  MCC comments.  H: Same comment as for 3267. We can discuss if we can find a solution for R20 5GA.  Keep open | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253285**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253285.zip) | | Rel-19 CR 28.622 Mixed error corrections  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253371**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253371.zip) | | Rel19 CR TS 28.319 Correct TS28319\_MsacNrm.yaml to align with stage2 definition  Agreed | Huawei | Ruiyue Xu |
| [**S5-253374**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253374.zip) | | Rel-19 CR TS 28.541 Corrections on 5GC NRM  E: the NF type is not defined in stage 2 and stage 3  E: This first change is already covered by 3507. So suggest to remove that from this CR.  Z: OK I will check.   * 3968   3968d1: rev/tdoc number | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253375**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253375.zip) | | Rel-20 CR TS 28.541 Corrections on 5GC NRM  MCC comments. REL-20 cat.A CR although 28.541 REL-20 does not yet exist => CR has to be withdrawn  Withdrawn | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253386**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253386.zip) | | Rel-19 CR TS 28.312 Update on the definition of expectedReportTypes  E: There is an overlap with 3721 and 3659. Propose that this is merged with 3659.  Merged in the rev. of 3659->3966. | ZTE Corporation | Pengxiang Xie |
| [**S5-253387**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253387.zip) | | Rel-20 CR TS 28.312 Update on the definition of expectedReportTypes  MCC comments. REL-20 cat.A CR although 28.312 REL-20 does not yet exist => CR has to be withdrawn | ZTE Corporation | Pengxiang Xie |
| [**S5-253400**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253400.zip) | | Rel-19 CR TS 32.160 Update the Management service template (stage 1)  Agreed | China Mobile, Huawei | Yushuang Hu |
| [**S5-253413**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253413.zip) | | Rel-19 CR TS 28.312 Clarification on the description of implicitIntent  MCC comments.  Reallocate 6.19.3.1-> 6.4.27  MCC: WI code, and should be Cat-F.  E: Need to clarify why remove the word “report” after intent.  E: Objection to the new added text “generates corresponding intent instance according to the modified intent”.   * 3978   3978d1: rev=1,  3978 agreed with rev update | China Mobile Com. Corporation | Mengyuan Ma |
| [**S5-253432**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253432.zip) | | Rel-19 CR TS 28.540 Update requirements for reader location and AIoT service area configurations  MCC comments.  Related tdoc 3720/3432  MCC: WI code  S: We are discussing this offline. Likely that it needs a revision.  H: This is related to 3720, suggest to merge them.  MCC: But that is for R20.  S: We can keep 3720 open. The functionality is needed. So I request that we create a new CR for Rel-19 replacing 3720 and then merging them.  MCC: More practical to merge the wanted contents directly into this revised R19 CR in 3979.  E: We have other comments as well, offline.   * 3979 (merging the wanted contents from 3720) | Huawei, China Unicom | Xian Zhao |
| [**S5-253433**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253433.zip) | | Rel-19 CR TS 28.541 Reader location and AIoT service area configurations  MCC comments.  Related tdoc 3716/3433  S: Recommend to create a new CR for R19 replacing 3716, as a first step. Then probably merge them.  E: We have some comments, offline.   * 3981 | Huawei, China Unicom | Xian Zhao |
| [**S5-253461**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253461.zip) | | DP on Nationwide coverage support of Network Slicing  N: We don’t understand where the reqs. are coming from. Also, a nation is not known in SA5 specs.  E: DO you see the problem that we are describing?  N: Yes but I think there are already means to solve that, e.g. the list of PLMN ids.  E: Let’s discuss this.  H: Share same concerns as N. Can give more comments offline.  Keep open. | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253462**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253462.zip) | | Rel-19 CR TS 28.541 Enhance Network Slice NRM fragment for nationwide coverage support  N: Related to 3461.  Keep open. | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253514**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253514.zip) | | Rel-19 CR TS 28.541 correct ES related attribute  N: This is changing the attr. name to align with stage 3, shouldn’t stage 3 then be corrected to align with stage 2? We prefer to change stage 3.  H: Ok.  E. Reason for change is a bit confusing.  -> 3982  3982 agreed as in d1. | Huawei | xiaoli Shi |
| [**S5-253515**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253515.zip) | | Rel-19 CR TS 28.540 add missing feature concepts and requirement  N: This adds reqs. for some aspects, but these are part of the NF already supports. And we already says that we support mgmt of NF. We should not describe what the NF does.  H: I just want to express the whole UC (picture) that we support. And I don’t think the TS today says that we support mgmt of NF.  N: We can check it offline.  N: Also, some of these reqs. have “shall” but some attributes are optional. So better use “should”.  E: Yes, the features are even optional. So all should be “should”.  E: We also question what the category should be. It is not adding functionality.  VC: Then Cat C may be better.   * 3983 | Huawei, CATT | xiaoli Shi |
| [**S5-253525**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253525.zip) | | Rel-19 CR TS 28.541 add stage3 solution for LTM handover to align with stage 2  E: The title adds stage 3 but it also adds stage 2, I have a problem with that. I’d like to keep the default value as today. And allowedValues shuld be removed.   * 3984 | Huawei | xiaoli Shi |
| [**S5-253537**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253537.zip) | | Rel-19 CR TS 28.532 Correction on notifyMOIChanges  Agreed | Huawei | Kai Zhang |
| [**S5-253538**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253538.zip) | | Rel-19 CR TS 28.532 Add missing examples for YANG operations  E: We sent some offline comments.   * 3985 | Huawei | Kai Zhang |
| [**S5-253615**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253615.zip) | | Rel-19 CR 28.541 NRM extensions for VMR MWAB-gNB location Ph2 Stage 2 and Stage 3  MCC comments.  Reallocate 6.20.10->6.4.27  MCC: Source to TSG  E: If S agrees referring to the datatype discussed in IAB, make this writeble and change the wording as per our suggestion, we support and like to co-sign.  Z: In the SA2 reply LS they also proposed some new attributes.  S: Yes but we have to do it step by step. Some are also added in the next CRs, some need to go to R20.   * 3986 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253617**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253617.zip) | | Rel-19 CR 28.541 NRM extensions for VMR Ph2 Stage 2 and Stage 3  Reallocate 6.20.10->6.4.27  E: In the first attribute, the plmnLoadInfo, there is no req. for this. All the other attributes are not aligned with what SA2 has captured.  S: I want to discuss it more offline.   * 3987 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253633**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253633.zip) | | R19 CR 28663-i21 Rapporteur cleanup  Agreed | Ericsson | Thorsten Rhau |
| [**S5-253644**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253644.zip) | | Rel-19 CR TS 28.554 Update the unit and type of the KPI  E: We have agreed CR in 3404 which updates KPI templates. This needs to be revised based on that. We would like to cosign the revision.   * 3988 | Huawei | Zhuoyuan Tian |
| [**S5-253645**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253645.zip) | | Rel-19 CR TS 28.554 Change the structure of clauses 6.9 and 6.10  E: Same comments as for 3644. Like to cosign.   * 3989 | Huawei | Zhuoyuan Tian |
| [**S5-253651**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253651.zip) | | Rel-19 CR 28.532 Correct notification name notifyDataNodeTreeSyncRecommended  Reallocate 6.19.8 -> 6.4.27  Agreed | Ericsson Hungary Ltd | Balazs Lengyel |
| 6.19 OAM&P Rel-19 Study and Work Items | | | | |
| Intelligence and Automation (OAM Prime features) | | | | |
| 6.19.1 Study on AI/ML management - phase 2 (completed) | | | | |
| 6.19.1.1 AI/ML management phase 2 | | | | |
| **WT-1.1 Management capabilities for ML model training** | | | | |
| [**S5-253600**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253600.zip) | | Input to DraftCR Rel-19 TS 28.105 corrections on MLtrainingType and SupportedLearningTechnology  SS: do not agree with cardinality change.  E: only agree with 3rd change. Suggest to merge into 3474  NEC: merge intto 3424/3423  CATT: agree with NEC. Offline comments.  E: 3423/3474/3600 are related.  Merge into 3839 | China Mobile | Sheng GAO |
| [**S5-253424**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253424.zip) | | Input to draftCR Enhancement on SupportedLearningTechnology dataType  NEC: supportedRLRole?  HW: allowedValue of supportFLRole is not aligned with requirements.  E: supportedFLRole  CATT: supportedFLRole?  N: related to 3425 on allowed value, should be aligned.  E: offline comments.  ->3838 | ZTE Corporation | Pengxiang Xie |
| [**S5-253423**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253423.zip) | | Input to draftCR TS 28.105 Correction on MLTrainingType  E: do not need supportedMLtrainingType.  NEC: should keep this attribute.  HW: agree with ZTE.  ->3839 | ZTE Corporation | Pengxiang Xie |
| [**S5-253472**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253472.zip) | | Input to draftCR Rel-19 TS 28.105 Correct pre-specialized training  DCM: question on why remove last sentence?  NEC: keep “is not intened to support…”  Z: agree with NEC and DCM.  ->3840 | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253474**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253474.zip) | | Input to draftCR Rel-19 TS 28.105 Training types in Training NRM fragment  SS: do not agree to remove expectedInferenceScope.  N: agree with SS.  NEC: do not agree with change second issue/initial trainning.  HW: do not agree with remove mlTrainingtype.  DCM/SS: agree with HW and SS.  Keep open   * 3976 | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253475**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253475.zip) | | Input to draftCR Rel-19 TS 28.105 Correct inference related attributes in ML Model  HW/NEC/DCM: do not agree to remove aIMlInferencename/inferenceScope.  Keep open   * 3977 | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253425**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253425.zip) | | Input to draftCR TS 28.105 Add NRM on LCM for Federated Learning  N: align the roles with federated learning.  Merge 3425/3713/3738  HW offline comments.  E: do not agree with energy efficiency related attributes in FLClientSelectionCriteria  E offline comments.   * 3841 | ZTE Corporation | Pengxiang Xie |
| [**S5-253713**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253713.zip) | | Input to draftCR TS 28.105 AIML management – Ph2 add NRMs on LCM for Federated Learning  Merge 3425/3713/3738  Merge into 3841 | ZTE, NEC, Samsung, Nokia | Hassan Al-kanani |
| [**S5-253738**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253738.zip) | | InputToDraftCR Rel-19 TS 28.105 Enhance NRM on LCM of Federated Learning  Merge 3425/3713/3738  N: fLClientSelectionCriteria not to be mandatory.  Merge into 3841 | Samsung R&D Institute UK | Ashutosh Kaushik |
| [**S5-253331**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253331.zip) | | Input to draftCR TS28.105 Update ML-Knowledge-based Transfer Learning  E: suggest to change EN to notes. Offline comments.  Merge with 3712 | Nokia | Stephen Mwanje |
| [**S5-253516**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253516.zip) | | Input To DraftCR TS 28.105 for add use case and requirements for reinforcement learning conflict management  N: role of MDA? MDA is mainly used for inference, question on the role of MDA in training.  E: online RL is not in scope of Rel-19.  ->3842 | Huawei | xiaoli Shi |
| [**S5-253517**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253517.zip) | | Input to DraftCR TS 28.105 for add solutions of training conflict management for reinforcement learning  DCM: missing conflictResolutionSuggestion description  Question on feasibility of how suggestion is provided?  N: agree with DCM. Offline comments.  SS: question on usefulness of conflictScope to consumer?  E: agree with SS. conflictTime? Concern on the usecase.  Keep open.  ->4075 | Huawei | xiaoli Shi |
| [**S5-253519**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253519.zip) | | Discussion on signalling feasibility of dataset and parameter sharing  NEC: proposal 1 RAN already know. Proposal 2 need to be clear on what message we like to give to RAN.  SS: RAN asked for Rel-19, Ran has moved to Rel-20.  NEC: like to discuss in Rel-20.  SS: agree with UE-side training entity becomes an authorized MnS consumer.  But UE side training entity should fetch the data from TCE. Suggest to reply to RAN.  Z: management date should be clarified.  DCM: we should reply, agree with HW.  E: need to be careful on relation of dataset/model params with mgmt. data, data set should not include UE level data.  NEC: offline.  QC: should resolve in Rel-20. Do not prefer to reply now.  N:  Vivo: not target for Rel-19.  ->3843  Related to LS 3513. | Huawei, CATT | xiaoli Shi |
| [**S5-253619**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253619.zip) | | Rel-19 InputToDraftCR 28.105 Updating Distributed Training  E: new attributes could be used not only for Distributed Training. Already coverd in training request.  NEC/N: agree with E.  ->3844 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253460**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253460.zip) | | Input to draftCR Rel-19 TS 28.105 Use case, requirements and solution on model confidence requirement  MCC: tdoc type should be other  E: clarify use case. Producer will not do anything with this information.  N: agree with this use case.  HW: attribute name to be update.  Z: how to quantify confidence value?  ->3845 | Nokia UK | Winnie Nakimuli |
| **WT-1.4: Management capabilities for AI/ML inference** | | | | |
| [**S5-253459**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253459.zip) | | Input to draftCR Rel19 TS 28.105 Use case and solution on sustainable AIML inference  E: object.  SS/NEC/DCM support this use case.  Keep open. | Nokia UK | Winnie Nakimuli |
| [**S5-253630**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253630.zip) | | Input to DraftCR Rel-19 TS 28.105 Update the requirements of managing ML models in use in a live network  E: rewording requirements.  N: keep 01+02, suggest to revise req03.  SS: keep req01+03, agree to remove 02.  NEC: agree with the current proposal.  Tdoc type should be other.  ->3846 | ZTE Corporation | Pengxiang Xie |
| [**S5-253330**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253330.zip) | | Input to draftCR TS28.105 Coordination AIML inference  HW: req3 no solution for providing an index? Problem object list?  Z: use case not clear. Coordination function is not in solution.  E: concern on the title of use case. Coordination functionality?  DCM: offline comments.  NEC: valid scenario, but need to simplify the requirements.  ->3847 | Nokia | Stephen Mwanje |
| **WT-1.2: Management capabilities for AI/ML inference emulation** | | | | |
| [**S5-253329**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253329.zip) | | Rel-19 Input to draftCR TS28.105 Update AIML emulation environment  ->BO  -> 4009 according to BO recommendation. | Nokia | Stephen Mwanje |
| **Cross WT** | | | | |
| [**S5-253422**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253422.zip) | | Input to DraftCR Rel-19 TS 28.105 Add Procedure for ML Model LCM  ->BO  -> 4010 according to BO recommendation. | ZTE Corporation | Pengxiang Xie |
| [**S5-253473**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253473.zip) | | Input to draftCR Rel-19 TS 28.105 Add generic procedure for ML model training  ->BO  -> 3975 | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253518**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253518.zip) | | Input to draftCR TS 28.105 for correct the description for managing AIML based  Capabilities  ->BO  -> 4011 according to BO recommendation. | Huawei, NEC | xiaoli Shi |
| [**S5-253684**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253684.zip) | | Input to DraftCR Rel-19 TS 28.105 AIML management-Ph2 stage 2 specification corrections and improvements  ->BO  -> 4012 according to BO recommendation. | NEC, Nokia, Nokia Shanghai Bell, Ericsson | Hassan Al-kanani |
| [**S5-253712**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253712.zip) | | Input to DraftCR Rel-19 TS 28.105 AIML management - phase 2 rapporteur's clean up  ->BO  -> 4013 according to BO recommendation. | NEC Europe Ltd | Hassan Al-kanani |
| [**S5-253393**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253393.zip) | | Rel-19 TS 28.105 stage 3 update to align with Rel-19 stage 2 specifications  ->BO | NEC, Nokia, Nokia Shanghai Bell, Ericsson | Hassan Al-kanani |
| 4057 | | Revised WID for downscoping | NEC |  |
| 6.19.2 Study on Management Data Analytics (MDA) – Phase 3 (completed) | | | | |
| 6.19.2.1 Management Data Analytics phase 3 | | | | |
| [**S5-253410**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253410.zip) | | Rel-19 CR TS 28.104 Correction on AIML descriptions  Agreed | China Mobile | Yushuang Hu |
| [**S5-253411**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253411.zip) | | Rel-19 CR TS 28.104 Add MDA type definition for ATSSS traffic steering analytics  N: A space too much in the second change.  H: We also should add a space in “TRAFFICCONGESTION”   * 3856 Pre-agreed | Huawei | Brendan Hassett |
| [**S5-253520**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253520.zip) | | Rel-19 CR TS 28.104 add stage3 solution for UE throughput analysis  H: We found a problem with this (a new defined data type which is not used) so we need a revision.  DCM: One attr. is missing - “securityLevel”.  H: Some of the types should be changed to use upper case for Output.   * 3857 | Huawei | xiaoli Shi |
| 6.19.3 Study on intent driven management services for mobile network phase 3 (completed) | | | | |
| 6.19.3.1 Intent driven management services for mobile network phase 3 (completed) | | | | |
| 6.19.4 Study on closed control loop management (completed) | | | | |
| 6.19.4.1 Closed Control Loop Management | | | | |
| [**S5-253332**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253332.zip) | | Rapporteur cleanup and corrections  H: This asks for content for Scope, but overlaps with 3609 so they should be merged.  S: Ok to merge.  E: In 5.7.1.2, it overlaps with 3335. It seems it is a wrong copy-paste, so this section should be removed.  N: Ok.   * 3858 Pre-approved | Nokia | Stephen Mwanje |
| [**S5-253333**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253333.zip) | | Restructure clauses  E:: Still many things are kept with the old value… e.g. in 5.1.3, the first column.  E: The acronym should be CONF.  E: In 5.4.3, the table… I can send the comments offline.  H: Some overlap with 3530, so these parts should be merged, I can send it to Nokia.   * 3859 | Nokia | Stephen Mwanje |
| [**S5-253599**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253599.zip) | | Rel-19 pCR 28.567 Model imports  Approved | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253602**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253602.zip) | | Rel-19 pCR 28.567 Adding missing descriptions  Approved | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253604**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253604.zip) | | Rel-19 pCR 28.567 Fixing References  Approved | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253608**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253608.zip) | | Rel-19 pCR 28.567 Fixing notifications  Approved | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253609**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253609.zip) | | Rel-19 pCR 28.567 Scope  E: Overlap with 3332.  N: Yes this is to be merged with 3332->3858. Use 3858 as base.  H: We prefer CCL based management (not “driven”).  E: Also support this.  S: Ok.  Merged in 3858. | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253610**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253610.zip) | | Rel-19 pCR 28.567 CCL Stage 3  E: Check references, the numbers are wrong.  E: Typo in the table “…ClosedControlLoop tent”  N: Add other resources… CCL report, scope, coordination entity.   * 3860 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253486**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253486.zip) | | Pseudo-CR on Rel-19 TS 28.567 Corrections on Fault Management CCL Use-case  Approved | NTT DOCOMO | Refik Fatih Üstok |
| [**S5-253530**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253530.zip) | | Rel-19 pCR TS 28.567 Remove the descriptions related to target and goal  N: We agreed earlier that we will not model goals in this work. But agreed to remove any reference to goals. We should add a note about this.  H: Don’t agree. We should have solution for all reqs. in stage 1.  E: We support the proposal from H, and want to co-sign the proposal.  S: We have discussed since last meeting, and agreed to say metric instead of goal. SO I suggest we replace goal and target by metric.  H: Don’t agree.   * 3861 | Huawei | Xiaohan Feng |
| [**S5-253531**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253531.zip) | | Rel-19 pCR TS 28.567 Update the attribute definition in clause 6.4.1  Approved | Huawei | Xiaohan Feng |
| [**S5-253334**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253334.zip) | | CCL scope conflict coordination NRMs  H: We don’t want to model the desired metric outcomes. We want to remove this attribute.  N: Ok we have to discuss this.  H. For the coordinated scope types, we want to remove CCL measurements scope and CCL target scope.  E: Also have some comments on the Desired metric outcomes… more than the definition of a scope.  E: In the attr. table, many attr. with cardinality more than one, but then you need values for IsOrdered and IsUnique.  E: There is a new type of CCL controlled scope which is not defined.  E: I can send some more offline.  DCM: Also have some comments, offline.  S: I have some comments on the modelling, offline.  S: The procedure… we are getting too much into the internal behaviour, we should focus more on what is the interaction on the interface.   * 3862 | Nokia | Stephen Mwanje |
| [**S5-253335**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253335.zip) | | CCL trigger conflict coordination NRMs2  S: Some attributes are not defined… e.g. TriggerCOnflict  N: The are defined in another tdoc… in 3336  S: The PrecedentEntities.. the description is not right.  S: On the procedure… it is very confusing in steo 1.4, they are not needed etc… and the text in the figure is too detailed. This applies to all documents with procedure flow,  E: Agree with S comments on the procedure… should be more high level.  E: Page 2…in 5.7.1 some issues in the new text, it needs to be clarified.  E: Overlaps with 3332 in 5.7.2.3.  E: In 5.7.2.3, “CCL-related monitoring and governance service…” is not clear.  E: precedentEntites in 6.3.1.2 should be optional  S: I think it should be moved to Conflict management and coordination IOC   * 3863 | Nokia | Stephen Mwanje |
| [**S5-253336**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253336.zip) | | CCL Action conflict coordination NRMs  DCM: General: The pCR includes unchanged clause, makes it difficult to follow.  DCM: In 6.4.1, “cCLUsefulnessOfConflictParameter” and “cCLinterestInConflictParameter” – not clear what their objectives are, and how the consumer can select these parameters, should be clarified.  S: Same comment on the procedure as the previous two tdocs.  S: “conflictMonitoringContext”, why is it needed for action coordination?  S: “cCLinterestInConflictParameter” – same comment as DCM.  E: Same comments as S and DCM.  VC: The clause numbers of new clauses are wrong and in wrong order.  E: On the new 6.3.12, the last but one paragraph is not clear.  E: Attr. ToleranceLimits, what is this?   * 3864 | Nokia | Stephen Mwanje |
| [**S5-253342**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253342.zip) | | CCL metric-value conflict coordination NRMs  DCM: Similar comments, it has clauses that are not changed.  DCM: CoordinatedOscillation, why is it boolean and what is the justification of it?  H: In the definition of DesiredMetrics, what is the meaning of “two uniqually assigned”?  S: Same comment on the procedure…  S: On “Fully trusted CCL”:.. I think it is too optimistic. Please delete the attribute. We can discuss it.  E: Two attr. in this table are not part of this contribution.   * 3865 | Nokia | Stephen Mwanje |
| [**S5-253597**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253597.zip) | | Rel-19 pCR 28.567 Historical CCL  VC: Typo in the header tdoc#  N: Historical info atribute is not used.  N: Step 7… suggest that it should indicate the usage of that historical info.  N: Attr. BreachedTime, should be BreachType?  H: We propose to remove “goal” in “This defines the goal breach information related with the CCL” in 6.3.X  N: We can discuss it.  E: IN 6.3.X , “This IOC is instantiated by the producre on each CCL deletion operation” in unclear.   * 3866 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253598**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253598.zip) | | Rel-19 pCR 28.567 defining CCLTrigger  H. Why CCL action trigger is not inside the CCLTrigger IOC?  S: This is not proposing to define where it is, just to define how it is describe it- The location is part of another contribution.  E: Need to understand the condition for the “closedControlLoopRef” better…it should be clarified and revised.  S: Ok we can fix it.   * 3867 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253613**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253613.zip) | | CCLM Exception  S: As rapporteur, we probably don’t need an exception, but let’s keep it open.  H: Typo in “SA51”  Keep open. | Samsung Electronics GmbH | Deepanshu Gautam |
| 4058 | | Presentation sheet for TS 28.567 | Samsung |  |
| 6.19.5 Study on management aspects of Network Digital Twin (completed) | | | | |
| 6.19.5.1 Management aspects of Network Digital Twins | | | | |
| **NRM for NDT** | | | | |
| [**S5-253338**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253338.zip) | | Clarify NDT NRMs  H: This has many errors… was this submitted by mistake?  N: Ok we can note it. It can be covered by other documents.  Noted. | Nokia | Stephen Mwanje |
| [**S5-253419**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253419.zip) | | Rel-19 pCR TS 28.561 Clarification on collaboratingNDT  DCM: 1st para says “NDT Function contributing to the functionality of the NDTFunction Collaboration” – needs to be clarified.  H: A Note says that “The handling of the NDTReport and NDTJob to support collaboration among NDT Functions is not defined in this release” but this is because it was deleted..why?  Z: We can discuss it.  N: The scenario discussed here was not described in the use case.  E: We want to be part of the discussion. The collaboration should be part of the NDT functions.   * 3868 | ZTE Corporation | Pengxiang Xie |
| [**S5-253420**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253420.zip) | | Rel-19 pCR TS 28.561 Clarification on the usage of NDT in stage 2  DCM: In clause 6.2.1.3.2, the addition of “Function” is probably not correct. It should be NDT job. Same in 6.2.1.3.4 and 6.2.1.3.8.  H: Maybe better to refer to the MnSProducer in these paragraphs? Definitely not the Function.  S: 6.2.1.3.2.1, deleting the six words of the last sentence is not right.  E: We agree to H comments to refer to the MnSProducer in these paragraphs.  E: To S comment, maybe not remove the last words but to replace “injected”. We want to co-sign it.   * 3869 | ZTE Corporation | Pengxiang Xie |
| [**S5-253434**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253434.zip) | | Rel-19 pCR TS 28.561 Update description for NDT supporting network automation  S: Disagree with last change – descr. of simulation data should be kept.  S: On the 2nd change, some English problem.  H: On the first change, I removed the limitation on purpose… we can discuss offline.  E: First change… should not add “network” here. It is not clear.  Z: Configuration data should add a reference.  Z: Editor’s note should be addressed.   * 3870 | Huawei | Xian Zhao |
| [**S5-253435**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253435.zip) | | Rel-19 pCR TS 28.561 Update NDT NRM to solve misalignment  DCM: Why has the descr. of NDT JobScenario been removed?  H: Because it was a repetition, already described above.  DCM: There is a new attr. NDTFunctionReference… needs some clarification.  DCM. Attr. AreaScope – where is it used?  H: I can check.  E: In the first change, “An NDT job represents the requirements…” not sure if it is only the requirements… replace it by a more general term.   * 3871 | Huawei | Xian Zhao |
| [**S5-253436**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253436.zip) | | Rel-19 pCR TS 28.561 Stage 3 of NDT NRM  H: Depends in the previous tdoc, so needs to be aligned with any change there.  Keep open | Huawei, China Mobile | Xian Zhao |
| [**S5-253640**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253640.zip) | | Rel-19 pCR TS 28.561 Add RESTful HTTP-based solution set for NDT  Z: The ResourceURI subscribed in NDTReport is wrong. Should be NtfSubscriptionControl.   * 3872 | Huawei, China Mobile | Zhuoyuan Tian |
| [**S5-253437**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253437.zip) | | Rel-19 pCR TS 28.561 Add attribute definition for precision  DCM: About the expectedPrecision… not sure if it makes sense to have this attr. It is confusing. You are always expecting good performance, and who would evaluate this expected precision?  E: We agree with DCM. Not defined where this calculation would be done, so how could it be uniform?  N. We don’t have any UC defined for this, and no requirement. We can maybe discuss it for R20.  S: This is a very impractical requirement for and NDT producer. There is no way a producer can ensure this precision.  CMCC: For the opertator, we like this attribute, but agree we need some use cases to define how to use it.  Not pursued. | Huawei | Xian Zhao |
| [**S5-253603**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253603.zip) | | Pseudo-CR on TS 28.561 Improvements to NDTOutputDescription  S: Where is the UC and req. for this?  H: In the comments I have tried to explain this.  H: Would it be ok with a boolean flag indicating if the verification succeeded or failed?  DCM: For the objectAttributeList qualifier change from M to O, we can expect output which is non3GPPOutput list only.  Z: The new attr. is contained in the NDTInputDescription …  H: Yes, it will be corrected by another contribution.   * 3873 | Huawei | Brendan Hassett |
| [**S5-253614**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253614.zip) | | Rel-19 CR 28.561 Updates regarding Network Issue Inducement  H: 6.2.1.3.4.2: Why the attr. SimulationData is renamed to “networkIssueInducementInfo”? That would mean that there is no solution for some other UCs.  H: What is the UC for the threshold attribute?  S: I think it is described in the UC. When the threshold is crossed, then you update the simulation data?  H: What is the updated data?  S: The producer should decide that.  H: We can’t understand this UC.  N and E: There is no req. for this.  DCM: Agree with H.  E: Change the font of the attr. NetworkEventInfo.   * 3874 | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253642**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253642.zip) | | Rel-19 pCR TS 28.561 Update networkEventInfo  DCM: On the new attribute scalingFactor – not sure when it is needed and how to use it?  N: There may be a need to align with the previous tdoc from S.  S: At last meeting we had network events and simulation data… we need to understand the UCs that these two attributes are trying to solve.  H: I have a related tdoc for this…3641.  N: On the scalingFactor… we don’t have any UC why we need scaling. So don’t think we need to have scalingFactor in this release.   * 3875 | Huawei | Zhuoyuan Tian |
| **Procedure update** | | | | |
| [**S5-253421**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253421.zip) | | Rel-19 pCR TS 28.561 Update on the NDT Procedure  H. For the first fig., the text below in step 1 says “The request may further include…” but “may” should be removed, this is a mandatory attribute.  H: What does “In the provided information to create NDT job instance” mean? Seems incomplete.  H: In the same sentence, replace “should” by “is”.  CMCC: We have some offline comments.   * 3876 | ZTE Corporation | Pengxiang Xie |
| **Concept update** | | | | |
| [**S5-253394**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253394.zip) | | Rel-19 pCR on TS 28.561 Update NDT concept (relation to automation and LCM)  E: this is good, we just propose one change: “The Network Digital Twin adds the ability to model the behaviour of a…” to “The Network Digital Twin **facilitates** the ability to model the behaviour of a…”  E: The last sentence is correct but should clarify that this is a choice of implementation.  DCM: In 4.Y, it refers to “NDT function” in the first bullet. Same for deletion. Should be “NDT function creation/deletion”.  S: We also have comments, offline.   * 3877 | China Mobile | Yushuang Hu |
| [**S5-253639**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253639.zip) | | Rel-19 pCR TS 28.561 Update the overview of NDT  E: The new term “simulation image” – pls. clarify or use another term.  H: “simulation image” is used in the TR. We can discuss how to replace it. Maybe visualization result?  N: We have a problem with first two sentences in the change… and “visualization” is not in the scope of SA5 so all related sentences should be deleted.   * 3878 | Huawei, China Mobile | Zhuoyuan Tian |
| [**S5-253536**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253536.zip) | | Clarify NDT management service  H: For the first sentence… suggest to remove “for analysis” because that is too limited.  E: Ok it was meant to be more general, we can discuss it.  Z: Some clarification of “management functions” may also be good…   * 3879 | Ericsson Korea Partners Co Ltd | Pedro Henrique Gomes |
| [**S5-253550**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253550.zip) | | Clarify simulation and emulation in 4.1  H: Not ok with adding the NOTE.  E: The purpose is not to say that the two terms mean the same. Maybe it is better to have the note in the clause above, and to say “simulation/emulation” here?  H: Ok we can discuss it.   * 3880 | Ericsson Korea Partners Co Ltd | Pedro Henrique Gomes |
| **Use case update** | | | | |
| [**S5-253395**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253395.zip) | | Rel-19 pCR TS 28.561 Update NDT data generation  DCM: In the first sentence, it says “the MnS Producer creates the NDT function instance and determines the simulated network objects and data…” so it seems like the data is per function and not per job.  CMCC: But the job is to generate the data…  E: This overlaps with 3549. Need to merge.  CMCC: Ok, can we use 3395 as base?  E: Ok.  H: On “The notification includes the estimated time…” – why is this important to do in this UC but no other NDT UC? Wee prefer to remove this.  N: We don’t agree with “can send a request to…”  S: I think it is a UC description but you are trying to describe the solution. It should be revised to be a UC.  E: Due to this comment, some parts of 3549 cannot be merged in this.   * 3881 (adding parts of 3549) | China Mobile | Yushuang Hu |
| [**S5-253549**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253549.zip) | | Clarify support for data generation  H: Overlaps with 3641.  E: Ok we can merge the related parts of that in here.  H. More comments, offline   * 3882 | Ericsson Korea Partners Co Ltd | Pedro Henrique Gomes |
| [**S5-253534**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253534.zip) | | Clarify evaluation of high-risk operation  -> 4022 according to BO recommendation. | Ericsson Korea Partners Co Ltd | Pedro Henrique Gomes |
| [**S5-253535**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253535.zip) | | Clarify NDT definition and collaborative NDT use case  -> 4023 according to BO recommendation. | Ericsson Korea Partners Co Ltd, China Mobile | Pedro Henrique Gomes |
| [**S5-253337**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253337.zip) | | Clarify NDT use cases | Nokia | Stephen Mwanje |
| [**S5-253641**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253641.zip) | | Rel-19 pCR TS 28.561 Update the use case in 5.2.2.2, 5.3.2.2, 5.4.2.3  -> 4024 according to BO recommendation. | Huawei | Zhuoyuan Tian |
| **Reference&Abbreviation** | | | | |
| [**S5-253638**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253638.zip) | | Rel-19 pCR TS 28.561 Update reference and abbreviations  -> 4025 according to BO recommendation. | Huawei, China Mobile | Zhuoyuan Tian |
| **Other** | | | | |
| [**S5-253397**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253397.zip) | | Rel-19 pCR on TS 28.561 Rapporteur clean-up | China Mobile | Yushuang Hu |
| [**S5-253399**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253399.zip) | | Presentation sheet of TS 28.561 for SA approval  -> 4026 according to BO recommendation. | China Mobile | Yushuang Hu |
| Management Architecture and Mechanisms (OAM Prime features) | | | | |
| 6.19.6 Study on Cloud Aspects of Management and Orchestration | | | | |
| [**S5-253350**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253350.zip) | | Pseudo-CR on TR28.869 terminology alignment  N: The title is misleading.  N: Clause 5.1.1.3 Says “The VNF Configuration Manager resides outside the 3GPP management system” - which is correct but means that the solution is outside the SA5 scope.  DCM: This is intended to remove the Editor’s note.  N: We don’t agree with the examples either.  N: the “can consider the introduction of a new parameter configBackupInfo potentially added within some existing IOC…” is very unclear.  N: Adding “to configure NF Deployment non-application parameters” in the 5.1.1.3.6 title is not correct.  DCM: Ok we can remove it.  E: In general we disagree with replacing of cloud native VNF with NF deployment.  DCM: This (to use NF deployment eveywhere) has been agreed earlier. If it cannot be agreed now, it would make it impossible to agree on any conclusion and recommendation for this study.  E: I don’t agree that this has been agreed earlier.  DCM: We can also discuss updating the definition of NF deployment in 3.1.  H and R: We also have comments, offline.   * 3883 (recommended to continue discussion in a BO session) | NTT DOCOMO INC.. | Kostas Katsalis |
| [**S5-253451**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253451.zip) | | Rel-19 pCR TR 28.869 Editorial clean up- Clause 5.2.3.3.2, Annexes D, E and F  -> 4015 according to BO recommendation. | Nokia UK, Ericsson | Winnie Nakimuli |
| [**S5-253480**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253480.zip) | | pCR TR 28.869 Updates to declarative descriptor-based LCM  -> 4016 according to BO recommendation. | Rakuten Mobile, Inc | Ravi Chamarty |
| [**S5-253354**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253354.zip) | | Pseudo-CR on TR28.869 NF Deployments LCM evaluation | NTT DOCOMO INC.. | Kostas Katsalis |
| [**S5-253427**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253427.zip) | | Pseudo-CR on TR 28.869 Add evaluation for some LCM solutions  -> 4017 according to BO recommendation. | China Mobile Com. Corporation | guangjing cao |
| [**S5-253481**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253481.zip) | | pCR TR 28.869 Evaluations and Conclusions for NF Deployment LCM | Rakuten Mobile, Inc | Ravi Chamarty |
| [**S5-253697**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253697.zip) | | pCR TR 28.869 Evaluations for LCM of NF Deployment use cases | Ericsson Limited, Nokia, AT&T | Junfeng Wang |
| [**S5-253355**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253355.zip) | | Pseudo-CR on TR28.869 VNF generic OAM functions evaluation | NTT DOCOMO INC.. | Kostas Katsalis |
| [**S5-253448**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253448.zip) | | Rel-19 pCR TR 28.869 Add Evaluation to the use of VNF generic OAM functions  -> 4018 according to BO recommendation. | Nokia UK, Ericsson | Winnie Nakimuli |
| [**S5-253439**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253439.zip) | | Rel-19 pCR TR 28.869 Clarify the scope of the management of cloud aspects | Huawei | Xian Zhao |
| [**S5-253698**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253698.zip) | | pCR TR 28.869 Recommendation for LCM of NF Deployment  ->4078 to capture the recommendation part. | Ericsson Limited, Nokia, AT&T | Junfeng Wang |
| [**S5-253352**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253352.zip) | | Pseudo-CR on TR28.869 conclusions and recommendations | NTT DOCOMO INC.. | Kostas Katsalis |
| [**S5-253449**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253449.zip) | | Rel-19 pCR TR 28.869 Add conclusions and recommendations to the use of VNF generic OAM functions  -> 4019 according to BO recommendation. | Nokia UK, Ericsson | Winnie Nakimuli |
| [**S5-253440**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253440.zip) | | Pseudo-CR-TR 28.869 Add some recommendations for Use of industry solutions | China Mobile Com. Corporation | guangjing cao |
| [**S5-253430**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253430.zip) | | Pseudo-CR-TR 28.869 Add recommendation for terminology  -> 4020 according to BO recommendation. | China Mobile Com. Corporation | guangjing cao |
| [**S5-253450**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253450.zip) | | Rel-19 pCR TR 28.869 Add conclusion for data streaming for cloud-native NF deployments | Nokia UK, Ericsson, Huawei | Winnie Nakimuli |
| [**S5-253710**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253710.zip) | | pCR TR 28.869 Add evaluation and recommendation for management data streaming based on message bus  -> 4021 according to BO recommendation. | Rakuten Mobile, Inc | KEXUAN SUN |
| 6.19.7 Study on Enablers for Security Monitoring (completed) | | | | |
| 6.19.8 Study on Service Based Management Architecture enhancement phase 3 (completed) | | | | |
| 6.19.8.1 Service Based Management Architecture enhancement phase 3 | | | | |
| [**S5-253261**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253261.zip) | | Rel19 CR TS 28.537 Add missing solution description for discovery of management services  E: Some problems… big pieces are not needed. E.g. subscribe/unsubscibe are part of many mgmt services, why describe it here again?  H: But for 28.111 we have similar functionality/clauses. I think it is important to improve the visibility.  E: At least all duplication should be removed.  N: The sentence “The Registration of Management Services functionalities allow MnS producer to register MnS Information…” we don’t agree with that.   * 3884 | Huawei | Ruiyue Xu |
| [**S5-253320**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253320.zip) | | Discussion Paper: addition of architecture reference model for management and orchestration in support of SBMA  E- We have problems with this. Introducing a new reference model is big, we should not do it at the end of Rel-19, should be done in R20.  DCM: We would like to co-sign.  N: We generally support this idea. But we need to discuss whether to do it in Rel-19 or Rel-20. And the solution is most important, not this DP. It introduces boxes with acronyms but nothing inside is defined, so it creates confusion.  NEC: The statement that none of these entities are defined is wrong. In fact, many of them are already well defined in 28.105. To E’s comment, why we need to do it in Rel-19? Because now there is architecture overlap already because of the requirements from RAN that we already started to work on, creating a big duplication. None of the principles in 28.533 contradict what we propose here.  Keep open. Depends on the outcome of the related CRs. | NEC, Intel, Huawei, AT&T, ZTE, CATT, MATRIXX Software, Deutsche Telekom, Verizon, China Unicom, China Mobile, Orange | Hassan Al-kanani |
| [**S5-253322**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253322.zip) | | Rel-19 CR TS 28.533 addition of architecture reference model for management and orchestration in support of SBMA  E: Same comments as for the DP. Should be done in Rel-20. Agree with N that some of these definitions are not clear. Need more discussion.  S: Question on the figure: What is the diff between Management service interface and Management Interface? The figure is not solving the problem mentioned in the DP.  DCM: We like to co-sign.  H: We support the contribution, just suggest to add a new function for MnS registry and discovery. We think it is missing in this and the other CRs. We agree with the explanation made by NEC. So it is a good starting point to do it in R19, and in R20 we can enhance it.  NEC: Yes I think we can add MnS registry and discovery.  N: One problem raised by this figure: Some of our functionality is already supported by NFs. This figure is not accurate.  NEC: There are various ways to answer this question…  E: We already have in 28.533, the annexes that connect mgmt features to mgmt services and how to implement them.  N: When we say MnF, this is clearly defined in 28.533. They can consume and produce services. So we need to agree on the target of this. E.g. we need to define which NRM fragments and CRUD operations are to be used.  NEC: I think you link problems in the individual specs to this proposal. That can be dealt with separately. 28.533 today is not complete, it doesn’t present the whole picture.  TI: I support N’s comment, but support the contribution. Like to co-sign.  R: We have comments, can give offline.  CMCC: We support this, can send some more comments offline.  DCM: Like to co-sign.  Keep open.  Rev4:  E: concern to keep as normative  N: support E, could be deployment example.  NEC: like to keep in normative.  QC/RT: keep as informative.  RT: note 3 should also add no limitation on cardinality.  DT: the diagram does not reflect deployment options.  RT/E/N/QC object to put the information to normative. | NEC, Intel, Huawei, AT&T, ZTE, CATT, MATRIXX Software, Deutsche Telekom, Verizon, China Unicom, China Mobile, Orange | Hassan Al-kanani |
| [**S5-253323**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253323.zip) | | Rel-19 CR TS 28.533: addition of summary descriptions for management functions in support of architecture reference model for management and orchestration  See discussion above.  TI: support the contribution. Like to co-sign.  DCM: Like to co-sign.  Keep open. | NEC, Intel, Huawei, AT&T, ZTE, CATT, MATRIXX Software, Deutsche Telekom, Verizon, China Unicom, China Mobile, Orange | Hassan Al-kanani |
| [**S5-253344**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253344.zip) | | Rel-19 CR 28.622 Retrieving missed notifications  N: Agree with the general intent. But have some specific comments, can take offline.  H: If we introduce this for the log, what’s the relation with the alarm list?  E: Alarm list only contains active alarms. This would contain all alarms including historic.  S: Do we have agreed requirements for this?  E: Yes, in the study. We generally don’t have requirements on notifications.  S: We will object to this, because as part of SA5#148e tdoc 233393, we as SA5 decided that we will not do any NRM based logging solutions.  N: The way it is written it gives the impression that it is about logging. The UC is about retrieving notifs that have not been sent out.  S: We need to agree on normative requirements and UC first.  H: This CR is triggered by one of the WTs in this WI.  Keep open.   * 3970 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253345**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253345.zip) | | Rel-19 CR 28.623 Retrieving missed notifications  See 3344  Keep open   * 3971 | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253489**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253489.zip) | | Rel-19 CR 32.158 Add details for MnS component versioning  MCC comments.  MCC: WI code should be SBMA\_Ph3  N: We have some comments, Offline   * 3885 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253490**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253490.zip) | | Rel-19 CR 28.537 Add details for MnS component versioning  MCC comments.  MCC: WI code should be SBMA\_Ph3  N: We have some comments, Offline   * 3886 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253492**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253492.zip) | | Rel-19 CR 28.533 Add details for MnS component versioning  MCC comments.  MCC: WI code should be SBMA\_Ph3  N: We have some comments, Offline   * 3887 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253544**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253544.zip) | | Rel-19 CR TS 28.533 Management services exposure  MCC comments.  S: We object because the endorsement of the DP that this CR depends on was a mistake.  S: We have a proposal for the figure: Remove Y1 and the text below it, then we can agree.  E: We have 28.318 which fits Y1. So does S say that this TS is no longer valid?  S: That TS has a statement that the authentication and authorization is out of scope of SA5.  Keep open  ->4073  D2:  SS: object.  C: may consider working agreement considering only one company object this document. | Huawei, AT&T, DTAG, China Mobile, China Unicom, Ericsson | Kai Zhang |
| [**S5-253596**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253596.zip) | | DP for reversing endorsement of S5-251948  Reallocate 6.19.21.1->6.19.8.1  H: This is based on two arguments a) and b). But for a), clause 3.2 talks about “exposure of MnS without CAPIF”.  H: We propose to maintain the endorsement and move forward accordingly.  E: We support H’s comments.  S: Mexpo scope is only CAPIF. So it should not have been discussed in Mexpo.  N: We have a DP that was endorsed.  S: Yes but we missed when it was endorsed, so we want to object now.  See conclusion on 3544.  Keep open | Samsung Electronics GmbH | Deepanshu Gautam |
| [**S5-253545**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253545.zip) | | Rel-19 CR TS 28.533 Update on Annex F  -> 4014 according to BO recommendation. | Huawei | Kai Zhang |
| [**S5-253257**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253257.zip) | | DP Clarify use of multiple NRMs in 28.541   * 3969 | Ericsson Hungary Ltd | Balazs Lengyel |
| 6.19.9 Study on Management of planned configurations (completed) | | | | |
| 6.19.9.1 Management of planned configurations | | | | |
| S5-253251 | | Rel-19 pCR 28.572 Enhance DraftTS on Management of planned configurations  Withdrawn | Nokia, Ericsson | Olaf Pollakowski |
| [**S5-253655**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253655.zip) | | Rel-19 pCR 28.572 Enhance Draft TS on Management of planned configurations  E: We found some more small issues, can send them offline to N.   * 3895 | Nokia, Ericsson | Jürgen Goerge |
| [**S5-253679**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253679.zip) | | Rel-19 pCR TS 28.572 Plan Configuration Stage-3  E: As announced on the exploder, I have made some updates in Forge.   * 3896 | Ericsson Hungary Ltd | Balazs Lengyel |
| 4059 | | Presentation sheet for 28.572 | Nokia |  |
| 6.19.10 Data management phase 2 | | | | |
| [**S5-253262**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253262.zip) | | Rel-19 CR TS 28.623 Separate YAML file for external data management  Agreed | Huawei | Ruiyue Xu |
| [**S5-253263**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253263.zip) | | Rel-19 CR TS 28.537 Add missing functionality and solution description for managing external management data  N. We have given offline comments. Need some more time.  DCM: We have some editorials… and one minor technical comment: “Request and retrieve external management data” should be “Request external management data” in the table.  E: The external datatypes are not always configured by the operator. And some more minor comments, offline.   * 3888 | Huawei | Ruiyue Xu |
| [**S5-253278**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253278.zip) | | Rel-19 CR TS 28.537 Update reference for trace metric  Agreed | Huawei | Ruiyue Xu |
| [**S5-253704**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253704.zip) | | Rel-19 CR TS 28.537 Correction for Deployment Scenario Description  H: We prefer the existing text which is more clear. Some rewording can be acceptable but not the whole contribution.  DCM: We need to rephrase the text.  E: We would like to have a definition of “Discovery Producer”.   * 3889 | Nokia | Sreekumar Pothera Kalloor |
| [**S5-253279**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253279.zip) | | Rel-19 CR TS 28.533 Update Annex F to include the management capabilities related to data management  MCC comments.  MCC: Wrong WI code. Should be one WI.  DCM: Where does the “MgmtData Registry and Discovery” come from?  H: In 28.622.  N: We suggest to use “Mgmt data” everywhere, to align.   * 3890 | Huawei | Ruiyue Xu |
| [**S5-253280**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253280.zip) | | Rel-19 CR TS 28.622 Add Enum values for the management capabilities related to data management  MCC comments.  MCC: Wi code.  N: We had offline comments, got clarification, and some editorials.   * 3891 | Huawei | Ruiyue Xu |
| [**S5-253281**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253281.zip) | | Rel-19 CR TS 28.623 Add Enum values for the management capabilities related to data management  MCC comments.  MCC: Wi code  H: Stage 3 for previous, need to revise.  N: Same stage 2 comments apply here.  DCM: Editorial…   * 3892 | Huawei | Ruiyue Xu |
| [**S5-253493**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253493.zip) | | Rel-19 CR TS 32.156 Add solution to construct conditions on performance metrics  MCC comments.  MCC: Wi code.  H: This solution was not described as agreed in the TR. A very complex solution.  E: Agree with H.  N: We have identified in several Wis the need to express conditions on perf metrics. This requires to pinpoint specific perf metrics for specific IOCs.  H: Don’t agree that it implies that. This could have been solved in a way that you express the measurement in Jex. That’s the only thing you need.  E: It sounds like you only propose an alternate way to report counters.  Continue offline  Keep open. | Nokia | Christiane Allwang |
| [**S5-253494**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253494.zip) | | Rel-19 CR TS 32.160 Add solution to construct conditions on performance metrics  MCC comments.  MCC: Wi code.  H and E: Same comment as for 3493.  Keep open | Nokia | Christiane Allwang |
| [**S5-253495**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253495.zip) | | Rel-19 CR TS 32.161 Add solution to construct conditions on performance metrics  MCC comments.  MCC: Wi code.  H and E: Same comment as for 3493.  Keep open | Nokia | Christiane Allwang |
| [**S5-253496**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253496.zip) | | Rel-19 CR TS 28.622 Add solution to construct conditions on performance metrics  MCC comments.  MCC: Wi code.  H and E: Same comment as for 3493.  Keep open  ->4077 | Nokia | Christiane Allwang |
| [**S5-253497**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253497.zip) | | Rel-19 CR TS 28.541 Add solution to construct conditions on performance metrics  MCC comments.  MCC: Wi code.  H and E: Same comment as for 3493.  Keep open | Nokia | Christiane Allwang |
| [**S5-253498**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253498.zip) | | Rel-19 CR TS 28.622 Correction of Job Id  E: The existing text would allow mgmt data collection job to be different from the associated jobs. We don’t see the need to be that strict. Other changes are fine.   * 3893 | Nokia | Christiane Allwang |
| [**S5-253499**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253499.zip) | | Rel-19 CR TS 28.622 Clarification on historical management data  E: The new text for the data type TimeWindow is fine but belongs in the historical data description that uses the data type. A generic datatype shouldn’t say how it’s used.  VC. Align the “Clauses affected”   * 3894 | Nokia | Christiane Allwang |
| [**S5-253703**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253703.zip) | | Rel-19 CR TS 28.622 Correct the usage of modal verb “will” in the document  DCM: The change of “will” to “may” should use “can” instead.  DCM: in 4.3.47: If you choose “should”, what are the alternatives?  DCM: in 4.3.50, seems better to use “shall” instead of “should”.  E: It is overlapping with 499, so better to merge them in 3894 to avoid a conflicting clause.  Merged in 3894. | Nokia | Sreekumar Pothera Kalloor |
| 6.19.11 Study on data management regarding subscriptions and reporting (completed) | | | | |
| 6.19.11.1 Data management regarding subscriptions and reporting | | | | |
| [**S5-253242**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253242.zip) | | Rel-19 CR TS 32.422 Trace Failure Notification  E: We got some offline comments from N, so revised it in rev1.   * 3897 | Ericsson | Qiang Zu |
| Management Architecture and Mechanisms (OAM Support for network features) | | | | |
| 6.19.12 5G performance measurements and KPIs phase 4 | | | | |
| [**S5-253404**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253404.zip) | | Rel-19 CR TS 28.554 Corrections on KPI template  CT: H have a related CR…  H: Ok, we can discuss them.  CT: We agree with 404.  Agreed. | Ericsson | Qiang Zu |
| [**S5-253405**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253405.zip) | | Rel-19 CR TS 28.552 Corrections on SDT measurements  E: Got some offline comments from N, created a rev2.   * 3898 | Ericsson | Qiang Zu |
| [**S5-253521**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253521.zip) | | Rel-19 CR TS 28.558 add drop rate measurement for split and non-split architecture  E: Ok with the change but should be in Rel-18 as well.  N: This is related to an LS 3295 from RAN3. The LS was not agreed yet; the CR should be aligned with the outcome of the LS. We have comments on the LS.  Z: Our tdoc 3725 can be merged into this.  MCC: Then maybe better to merge this into the corresponding two CRs by ZTE.  H: We propose that for R19 we use the H CR as basline and for R18 we use the ZTE CR as base.  **WI code: TEI18? Cat B? (alignment with RAN) – same as the Rel-18 CR**  Z: For non-split scenario, the bullet f) should have only NRCellCU, remove the first line.  N: If a measurement is defined for split gNB scenario, Do we define it for non-split explicitly as well?  Z: We have the same question.  E: I think it has to be decided case by case.   * 3899 (merged with 3725) | Huawei | xiaoli Shi |
| [**S5-253528**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253528.zip) | | Rel-19 CR TS 28.552 Add average DL PDU set delay for XR measurement  E: I sent comments offline. Don’t think this is fully aligned with SA2 definition, so propose to postpone this to next meeting.  CTC: I want to revise it to address E comments in this meeting.   * 3901. | China Telecom Corporation Ltd. | Xiumin Chen |
| [**S5-253532**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253532.zip) | | Rel-19 CR TS 28.552 Add Multicast Group Paging records for MBS measurement  E: Didn’t follow drafting rules – change on change. And some spelling errors.   * 3902 | China Telecom Corporation Ltd. | Xiumin Chen |
| [**S5-253533**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253533.zip) | | Rel-19 CR TS 28.552 Fix and adjust some formatting issues in 5.1.1.27  Agreed | China Telecom Corporation Ltd. | Xiumin Chen |
| [**S5-253594**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253594.zip) | | Rel-19 CR 28.554 Add new KPI for high loads evaluation based on PRB usage distribution  E: This KPI defined T1 and T2 based but unclear how they are configured.  E: It is a ratio between two kind of bins. But why we need these KPIs to measure non standard bins?   * 3903 | China Unicom | Zhen Xing |
| [**S5-253595**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253595.zip) | | Rel-19 CR 28.554 Add operator-specific energy consumption and energy efficiency KPIs for MOCN scenario  E: This is based on PLMN but we don’t have such a KPI today.  CU: But we can calculate by the measurement?  E: Where can we get the data volume for PLMN?  N: The KPIs being defined on ME, but actually for a gNB for PLMN, and we don’t have anywhere mentioned that ME can represent gNB, and there is no attribute related to PLMN in ME.  N: Whatever is used in the formula is not defined anywhere.  N: We don’t understand what is NF static?  N: IN 6.7.Y, it has a dependency on 6.7.X, which has several comments.  N: Some more comments, offline.   * 3904 | China Unicom | Zhen Xing |
| [**S5-253627**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253627.zip) | | Rel-19 CR 28552 Correcting heading  Agreed | L.M. Ericsson Limited | Thorsten Rhau |
| [**S5-253673**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253673.zip) | | Rel-19 CR 28.552 Correct clause title  N: We want to keep it open, need to discuss.  E: We have got complaints from SA that we didn’t always provide support of RAN features in the same release, so it is very important to address this in this meeting, the last in Rel-19. So we are surprised that you didn’t indicate the comments until now. We need them latest tomorrow.  N: Ok, will try to give them tomorrow. | Ericsson | Per Elmdahl |
| [**S5-253674**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253674.zip) | | Rel-19 CR 28.552 Update use case for LTM  N: We want to keep it open, need to discuss.  See comments on 3673  CTC: I think it is better to give the reference TS in the UC to indicatye the conditional and non conditional… we already had offline discussions.  E: I support CTC comments and have already updated the contribution to address them.   * 3918 | Ericsson | Per Elmdahl |
| [**S5-253675**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253675.zip) | | Rel-19 CR 28.552 PM for inter-CU LTM  N: We want to keep it open, need to discuss.  See comments on 3673  Keep open | Ericsson | Per Elmdahl |
| [**S5-253676**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253676.zip) | | Rel-19 CR 28.552 PM for intra-CU conditional LTM  MCC comments.  MCC: Version number is wrong.  N: We want to keep it open, need to discuss.  See comments on 3673   * 3919 | Ericsson Telecom S.A. de C.V | Per Elmdahl |
| [**S5-253677**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253677.zip) | | Rel-19 CR 28.554 Update mobility KPI for LTM  N: We want to keep it open, need to discuss.  See comments on 3673  Keep open | Ericsson | Per Elmdahl |
| [**S5-253705**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253705.zip) | | Rel-19 CR TS 28.552 Measurements related to LTM cell-switch  E: We have many comments… main comments is… these are very detailed corner case measurements which we don’t think should be standardised.  Keep open  ->4082 | Nokia | Sreekumar Pothera Kalloor |
| [**S5-253706**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253706.zip) | | Rel-19 CR TS 28.552 Measurements related to LTM cell-switch with almost invalid TA  E: We have many comments… main comments is… these are very detailed corner case measurements which we don’t think should be standardised.  Keep open | Nokia | Sreekumar Pothera Kalloor |
| [**S5-253724**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253724.zip) | | Rel-18 CR TS28.558 Add DL PDCP SDU Drop rate in gNB-CU-UP for UE level  See discussion on 3521. This should also add the corresponding changes from 3521 in R18.  **WI code: TEI18? Cat B? (alignment with RAN)**  E and H: Prefer to use the content from the H Rel-19 CR.   * 3900 | ZTE Corporation | Bangqiu Ruan |
| [**S5-253725**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253725.zip) | | Rel-19 CR TS28.558 Add DL PDCP SDU Drop rate in gNB-CU-UP for UE level  Merged in revision of 3521 -> 3725 | ZTE Corporation | Bangqiu Ruan |
| 6.19.13 5G Advanced NRM features phase 3 (completed) | | | | |
| 6.19.14 Subscriber and Equipment Trace and QoE collection management | | | | |
| [**S5-253230**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253230.zip) | | Rel-19 CR TS 32.421 Continuous MDT  N: This has been discussed offline and revised to rev2.  E: This was actually discussed in the BO session this morning. We can continue discussing offline and revise again.   * 3905 | Ericsson, Deutsche Telekom | Qiang Zu |
| [**S5-253231**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253231.zip) | | Rel-19 CR TS 32.422 Continuous MDT  E: Same situation, discussed in the BO session this morning, rev3 available.  E: 3669 should be merged into this.   * 3906 | Ericsson, Deutsche Telekom | Qiang Zu |
| [**S5-253232**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253232.zip) | | Rel-19 CR TS 28.622 Continuous MDT  E: Same situation, discussed in the BO session this morning, rev2 available.  E: 3736 should be merged into this.   * 3907 | Ericsson, Deutsche Telekom | Qiang Zu |
| [**S5-253233**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253233.zip) | | Rel-19 CR TS 28.623 Continuous MDT  E: Need revision to align with the stage 2 updates in 3232.   * 3908 | Ericsson, Deutsche Telekom | Qiang Zu |
| [**S5-253522**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253522.zip) | | Discussion on management of continuous MDT  E: We propose to note it, because some proposals we cannot agree.  Noted | Huawei | xiaoli Shi |
| [**S5-253669**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253669.zip) | | Rel-19 CR TS 32.422 Support for continuous MDT  Merged in 3906 | CATT | Min Shu |
| [**S5-253234**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253234.zip) | | Rel-19 CR TS 28.622 Corrections on TraceJob  N: The title says “Corrections on TraceJob” but suggest to change it because it’s not a correction.  N: The pause and resume for the trace job is not very easy, because we have signalling messages in the trace job to be traced. And how IMSI trace works is not very clear, and seems complex.  N: We should also confirm with RAN2/3 before such a feature is introduced.  E: We could ask them. We can propose an LS.  New number for the LS: 3909  Postponed (waiting for LS from RAN2/RAN3 in reply to 3909) | Ericsson | Qiang Zu |
| **3909** | | LS to RAN2/RAN3 on temporary suspension of the trace procedure. Source: Ericsson. |  |  |
| [**S5-253235**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253235.zip) | | Rel-19 CR TS 28.623 Corrections on TraceJob  Stage 3 of 3234.  Postponed | Ericsson | Qiang Zu |
| [**S5-253236**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253236.zip) | | Rel-19 CR TS 28.405 Corrections on Deactivation procedures  Agreed | Ericsson | Qiang Zu |
| [**S5-253237**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253237.zip) | | Rel-19 CR TS 32.423 Trace message direction  N: the purpose of “msgDirection” is not clear. Why is it needed?  N: Within one trace record there could be different messages with different directions. How do we handle this info in the header?  E: No, this is for handover, so only one message in each trace record.   * 3910 | Ericsson, AT&T | Qiang Zu |
| [**S5-253457**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253457.zip) | | Rel-19 CR 32.423 Clarify trace record header NF identifiers  N. The motivation of changing the parameter nfInstanceId is not clear. Why NF type and NF instance id are not applicable for RAN entities?  N: We have some more comments, offline.  -> 3911 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253670**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253670.zip) | | Rel-19 CR TS 32.423 Add addtional TR and TRSR on Trace Record Header for continuous MDT  CATT: rev2 uploaded.  N: ask to check rev2 offline.  E/HW: co-sign  ->4070 | CATT | Min Shu |
| [**S5-253693**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253693.zip) | | Rel-19 CR 28404-i00 Rapporteur’s upgrade to Rel-19  Agreed. | Ericsson | Robert Petersen |
| [**S5-253694**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253694.zip) | | Rel-19 CR 28405-i00 Rapporteur’s clean up  E: ask for revise to remove overlapping modification with 3236.  28.405 version should be 19.3.0.  ->4071 Pre-Agreed | Ericsson | Robert Petersen |
| [**S5-253695**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253695.zip) | | Rel-19 CR 28406-i00 Rapporteur’s upgrade to Rel-19  Agreed. | Ericsson | Robert Petersen |
| 6.19.15 Study on Management Aspects of NTN Phase 2 (completed) | | | | |
| 6.19.15.1 Management Aspects of NTN Phase 2 (completed) | | | | |
| 6.19.16 Study on management of IAB nodes (completed) | | | | |
| 6.19.16.1 Management of IAB nodes | | | | |
| [**S5-253678**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253678.zip) | | Editorial changes  MCC: Cat should be D   * 3912 Pre-agreed | Ericsson | Junfeng Wang |
| [**S5-253680**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253680.zip) | | Procedure for IAB-node configuration  S: On location info, is this a geographical location of the IAB node at a particular point of time?  E: Yes.  S: This needs to be clarified.   * 3913 | Ericsson | Junfeng Wang |
| [**S5-253683**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253683.zip) | | Management of IAB-node  H: For req. NRM\_1: It should provide location info of IAB-node indication.  E: Don’t think it is needed.   * 3914 | Ericsson | Junfeng Wang |
| [**S5-253685**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253685.zip) | | NRM changes to support IAB-node management  H: This is a solution for the previous. Same question as for 3683.  S: What you propose as part of the LocationInfo is not the geo location.  E: Yes, but you need to read the semantics of these attributes to understand how they reflect the IAB location.   * 3915 | Ericsson | Junfeng Wang |
| 6.19.17 Study on management aspects of RedCap feature(completed) | | | | |
| 6.19.17.1 Management Aspects of RedCap features | | | | |
| [**S5-253523**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253523.zip) | | Rel-19 CR TS 28.541 add redcap related configuraion parameters  E: The Summary of change has some error…  H: OK   * 3916 | Huawei | xiaoli Shi |
| [**S5-253593**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253593.zip) | | Rel-19 CR TS 28.552 Add new filter for PDCP SDU data volume measurements for RedCap service  E: What is the meaning of “or per UE type” in a) and c)?  CU: We can take it offline.   * 3917 | China Unicom, ZTE | Zhen Xing |
| 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 (completed) | | | | |
| 6.19.19 Study on Management of Network Sharing Phase 3 (completed) | | | | |
| 6.19.19.1 Management of Network Sharing Phase 3 | | | | |
| [**S5-253699**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253699.zip)  **(late)** | | Rel-19 CR TS 32.130 Correct the example of SBMA for MOCN  MCC comments.  Agreed. | China Unicom | Zhaoning Wang |
| [**S5-253700**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253700.zip)  **(late)** | | Rel-19 CR TS 32.130 Rapporteur clean-up  MCC comments.  E: GWCN ?  ->3920  3920 pre-agreed. | China Unicom | Zhaoning Wang |
| Support of New Services (OAM Support for network features/OAM Prime features) | | | | |
| 6.19.20 Study on energy efficiency and energy saving aspects of 5G networks and services (completed) | | | | |
| 6.19.20.1 Energy efficiency and energy saving aspects of 5G networks and services | | | | |
| [**S5-253325**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253325.zip) | | Rel-19 CR TS 28.310 Add solution on Energy saving optimization for multi-carrier RAN scenarios  DCM: step 5 is not needed, related to step 7  E: centralized SON is not defined, need to align with term in 28.310.  ES optimization MnS Producer?  C: use Mns Consumer/Producer.  HW: agree with E on names. How to calculate overlap values? The solution should be made clear.  ->3921 | Nokia | Srilakshmi Srinivasaraju |
| [**S5-253326**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253326.zip) | | Rel-19 CR TS 28.541 Add NRM solution on Energy saving optimization for multi-carrier RAN scenarios  DCM: offline editorial comments  Clarify capacityBoosterCellsInESGroup/boosterCellsDeactivationOrder?  E: related to 3325. Terms need to be aligned. ES optimization?  eSOptimizationScope?  HW: value of cellOverlapGroupingThreshold?  ->3922 | Nokia | Srilakshmi Srinivasaraju |
| [**S5-253327**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253327.zip) | | Rel-19 CR TS 28.104 Enhance the MDA assisted Energy Saving use case for handling of power shortages  DCM: offline editorial comments  How to get Battery info?  Alarm notification?  E: availability of energy-> availability of backup energy.  How to determine the energy availability is limited?  ->3923 | Nokia | Srilakshmi Srinivasaraju |
| **[S5-253401](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253401.zip)** | | Rel-19 CR TS 28.310 Add use case and requirements for ratio of renewable energy  DCM: clarify the new use case and requirements relation with 5.1.6.2?  N: agree with DCM. Granularity is not dealt in SA5.  E: offline comments. What’s purpose to capture renewable Energy consumption? renewable energy consumption for different granularity should be removed.  Keep open.   * 4007 | China Mobile | Yushuang Hu |
| **[S5-253402](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253402.zip)** | | Rel-19 CR TS 28.554 Add the calculation of renewable energy related KPIs  E:Related to 3401. How to capture REF from gNB/UPF?  N: how REF is measured is not clear? Why ME is reporting this measurement?  DCM: agree with N. value Boolean/ actual percentage?  Keep open   * 4008 | China Mobile | Yushuang Hu |
| [**S5-253438**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253438.zip) | | Rel-19 CR TS 28.554 Add solution for Carbon Emission Efficiency  N: should be rel-20, not in scope of Rel-19. N object. SA1 introduced the carbon emission aligned with ITU-T, and it’s in scope of SA1 Rel-20.  DCM: efficiency? Type?  Keep open. | Huawei | Xian Zhao |
| [**S5-253546**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253546.zip) | | Rel-19 CR TS 28.310 Update UC and requirements of Energy Efficiency as a Service Criteria  N: carbon emission efficiency? Is it related to exposure?  HW: this is to support SA1 requirements.  N: remove the sub bullets under “carbon and renewable energy related information.”  DCM: do not agree to add “carbon emission efficiency” in FUN1.  E: carbon efficiency can only be calculated by management system, not by gNB. Question on FUN-X “request to collect per Network Element”.  ->3924 | Huawei | Kai Zhang |
| [**S5-253547**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253547.zip) | | Rel-19 CR TS 28.310 Add missing solution description for multi-dimensional energy efficiency  N: suggest to update existing 6.1.1/6.1.2.1 to capture this information.  E: remove “but the other network performance dimensions are not considered.”  ->3925 | Huawei | Kai Zhang |
| [**S5-253548**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253548.zip) | | Rel-19 CR TS 28.554 Add NG-RAN estimated carbon emission KPI  E: NG-RAN is not contained only gNB.  DCM: agree with E.  ->3926 | Huawei | Kai Zhang |
| [**S5-253618**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253618.zip) | | Rel-19 CR TS 28.310 Updates to energy consumption VNF  N: “The MnF subscribes”? MnF is not defined in SA5. This document is in scope of NFV instead of SA5.  E: step 3~7 not belong to SA5.  ->3927 | NTT DOCOMO, Rakuten Mobile, Huawei | Joan Triay |
| [**S5-253620**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253620.zip) | | Rel-19 CR TS 28.554 Updates to NF energy consumption based on VNF  N: change to existing clause is not required.  6.7.3.1.A/B remove “A KPI that gives an estimation of the energy consumption of a VNFC that runs either on a virtual compute resource or an OS container workload.” This information is not know in SA5.  E: agree with N. measurement name should be aligned with NFV. Why redefine the IFA measurements in SA5.  ->3928 | NTT DOCOMO, Rakuten Mobile, Huawei | Joan Triay |
| 6.19.21 Study on Enhanced OAM for management exposure to external consumers (completed) | | | | |
| 6.19.21.1 Enhanced OAM for management service exposure to external consumers through CAPIF | | | | |
| **WT-1.3: Authorization of the external MnS consumer to access the management service APIs** | | | | |
| [**S5-253446**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253446.zip) | | Rel-19 pCR TS 28.579 Add use case and requirements for authorization of the external MnS consumers at the CCF  E: whether Authorization of the external MnS consumer should be managed by MSAC/CAPIF?  E: prefer to keep authorization use case and solution out from Rel-19. Do not prefer competing solutions.  N: The solution provided by N/SS follows the conclusion in study phase.  E: This solution differs from the agreement to conclusion.  N: do not agree with Ericsson’s comment above. The following information is copied from TR 28.879.  -----------------------  6.1.4 Use case #4: Authorization of the external MnS consumer to access the management service API  To get access to one or more service APIs, the external MnS consumer needs to get authorized. The consumer requests the CCF (over CAPIF-1e interface) an access token, that it can later use to invoke one or more service APIs (over CAPIF-2e interface). For this use case, the following has to occur:  - The authorization information of the external MnS consumer needs to be defined using MSAC information. The solution is described in clause 5.1.4.3.1. The solution is feasible and no gaps have been identified.  - The authorization information of the external MnS consumer needs to be made available to the CCF, so that CCF can grant authorization issuing the access token. The solution is described in clause 5.1.4.3.2. The baseline solution has been agreed, though further elaboration on how the authentication and authorization MnS producer generates token claims is required to be done during normative phase.  -----------------------  E: do not agree to keep the baseline solution agreed in TR 28.879 directly to TS.  Questions for moving forward:  Use case/requirement: (3446/3470)  Who owns and manages the authorization information for external Mns Consumer?   1. 3GPP management system with MSAC solution (3447) - nobody 2. CAPIF authorization framework (3470) (E/ATT/HW) 3. CAPIF authorization framework in coordination with MSAC information (3447) (N/SS)   Keep open. | Nokia UK | Winnie Nakimuli |
| [**S5-253470**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253470.zip) | | Rel-19 pCR TS 28.579 Add use case and requirements for authorization of external MnS consumer to access management services  -> BO | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| [**S5-253447**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253447.zip) | | Rel-19 pCR TS 28.579 Add use case solution for authorization of the external MnS consumers at the CCF  -> BO | Nokia UK, Samsung | Winnie Nakimuli |
| [**S5-253471**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253471.zip) | | Rel-19 pCR TS 28.579 Add solution for authorization of external MnS consumer to access management services  -> BO | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| **General** | | | | |
| [**S5-253445**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253445.zip) | | Rel-19 pCR TS 28.579 Resolve Editor's notes  -> BO  -> 4027 according to BO recommendation. | Nokia UK | Winnie Nakimuli |
| [**S5-253540**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253540.zip) | | pCR TS 28.579 Fix wrong reference  -> BO | Huawei | Kai Zhang |
| [**S5-253541**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253541.zip) | | pCR TS 28.579 Add explanation on discovery policy  -> BO  -> 4028 according to BO recommendation. | Huawei | Kai Zhang |
| **WT-1.2: Publishing of management services into the CCF** | | | | |
| [**S5-253542**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253542.zip) | | pCR TS 28.579 Update mapping of management service information into service API information  -> BO  -> 4029 according to BO recommendation. | Huawei | Kai Zhang |
| [**S5-253543**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253543.zip) | | pCR TS 28.579 Update use case publishing of management services into the CCF and annex A  -> BO  -> 4030 according to BO recommendation. | Huawei | Kai Zhang |
| **WT-1.4: Logging the management service API invocations to the CCF** | | | | |
| [**S5-253539**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253539.zip) | | pCR TS 28.579 Update requirements and use case of logging the management service API invocations to the CCF  -> BO  -> 4031 according to BO recommendation. | Huawei | Kai Zhang |
| **Other** | | | | |
| [**S5-253456**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253456.zip) | | Presentation of TS 28.579 to SA for Approval  -> BO  -> 4079 | Nokia UK | Winnie Nakimuli |
| S5-254080 | | Revised WID on Enhanced OAM for management service exposure to external consumers through CAPIF | Nokia UK | Winnie Nakimuli |
| 6.19.22 Management for MonStra (completed) | | | | |
| 6.20 OAM&P Rel-20 Study and Work Items | | | | |
| OAM Prime feature | | | | |
| 6.20.1 Study on intent driven management services for mobile network phase 4 | | | | |
| **Structure proposals:** | | | | |
| [**S5-253452**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253452.zip) | | TR 28.881 v0.0.0 skeleton  Approved | Ericsson Canada Inc. | Mark Scott |
| [**S5-253365**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253365.zip) | | pCR TR 28.881 Add structure proposal  N: Don’t fully agree on the wording in clause 4 title. The usual wording on Use cases / Issues should be used.  E: Then we need to agree on a consistent wording with other TRs.   * 4032 | Huawei, Ericsson | Ruiyue Xu |
| **WT-1： Intent driven management scenario enhancement** | | | | |
| [**S5-253366**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253366.zip) | | pCR TR 28.881 Add new issue for enhancement of radio service delivering and assurance scenarios  E: Some typo in “with the scene the information”  E: On Req. CON-2: We need to have some better definition for this, it is too vague.  E: On req. CON-3, same problem. Why should the producer translate from the civic address, why not the consumer?  E: Pls. clarify “**Enhancement Aspect3**”.  H: We will probably remove Enhancement Aspect2 and Enhancement Aspect3 for this meeting, to focus on the UCs.  W: It appears req. 2 and 3 focus on the same thing, but the term area is not defined very well. Also the civic address must be more clear on what it includes.  H: CT3 and CT4 have a detailed definition for the civic address.  N: We sent offline comments. Also have issues with the civic address and the time aspect in req. 1. And the solutions are not ready to discuss in this meeting.   * 4033 | .1 | Ruiyue Xu |
| [**S5-253367**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253367.zip) | | pCR TR 28.881 Add new issue for enhancement of radio network performance assurance scenarios  E: For all these tdocs we provided offline comments.  E: On req. 1, it should be expressed in terms of context.  H: I will remove all solution parts in this meeting due to all offline comments, to focuse on the UCs.  N: For the UC we ask to focus on managing the RAN features.   * 4034 | Huawei | Ruiyue Xu |
| **WT-2/WT-7 New intent driven management scenarios-Intent decomposition/traceability** | | | | |
| [**S5-253487**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253487.zip) | | Pseudo-CR on Rel-20 TR 28.881 Add issue description, requirement and solution for intent decomposition  DCM: We got offline from N, H, Z, and produced a rev3.  S: For all 3 in this section: We seem to believe that we understand the composition. My opinion is that the figure that this tdoc refers to does not describe the composition.  E: That fig. implies that the intent is manipulated somehow…e.g. if one intent handler cannot fulfill the intent it will decompose it to fulfill the part(s) that it can, and send a request to other handlers for the rest of the intent.  S: Try to explain what you just said and write it down.  H: For these 3 pCRs, maybe we can merge them as they are about the same topic.  E: No, they are not the same, we already discussed this. They are not one UC.  DCM/V: Verizon wants to cosign.   * 4035 | NTT DOCOMO | Refik Fatih Üstok |
| [**S5-253504**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253504.zip) | | pCR TR 28.881 Add issue, requirements and potential solution for intent traceability.doc  N: We sent offline comments. E.g. about the composition information. And what is called intent info model.  E: We have addressed them in rev1.  S: Clarify the diff between decomposition and propagation.  E: We will reword it in the revision.  H: We suggest to rephrase the requirement…  E: Also updated in rev1.   * 4036 | Ericsson Canada Inc. | Mark Scott |
| [**S5-253341**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253341.zip) | | Invariant Guidance in Intent Contexts  N. We got offline from E, H, Z, DCM. Addressed them in rev1.  E: On rev1 you have a note…at least 3 words are vague there.  N: We can revise it.  Z: Maybe you misunderstood my comment… we need some more descr. on the scenario.   * 4037 | Nokia | Stephen Mwanje |
| **WT-3 Intent negotiation enhancement** | | | | |
| [**S5-253340**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253340.zip) | | Intent interpretation information  N: We got offline from Z, DCM, H, E. addressed in rev1.  E: On rev1, we asked for clarification about “same intent”, still unclear.  E: A new term used “supported alternatives report”… don’t see the need for that.  N: This is already in the spec…  E: Main comment, req. 1 you have not touched yet. It is a “shall”, and talks about interactions…interpretation of the intent should not be supported by any other type of information. So I don’t see any added value here.  S: Also doubting the need for this…how would it help to send it to another producer?  H: We still think the “previous negotiation information” is not needed. In can have some good or bad influence.  Z: On rev1, the new example is not valid for me, because the negotiation history should not be exchanged among handlers. And on the Note, privacy infor from t he consumer should not be exposed to other producers.  H as rapporteur: Please use the latest pCR template.   * 4038 | Nokia | Stephen Mwanje |
| [**S5-253368**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253368.zip) | | AS4 pCR TR 28.881 Add new issue for Intent exploration enhancement  E: We sent some offline comments.  H: Yes already got offline from E, N, Z.  S: We also have comments, offline.   * 4039 | Huawei | Ruiyue Xu |
| [**S5-253426**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253426.zip) | | Pseudo-CR on TR 28.881 Add Key Issue on Intent feasibility check enhancement to support resource reservation  Z: We got offline from E, H, DCM, N, and produced rev1.   * 4040 | ZTE Corporation | Pengxiang Xie |
| [**S5-253529**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253529.zip) | | Rel-20 pCR on TR 28.881 Add new issue for Intent utility function enhancement  H: We got offline from E, N, Z, DCM.  H: We can remove the solution part and focus on the UC if you have concerns.  N: We also have big concerns with the UC. This kind of detail is not intent management. It is a question of principles of what intent mgmt should be. We expressed this offline.  H: Ok we can continue offline.   * 4041 | Huawei | Xiaohan Feng |
| **WT-4 Intent handling capability registration and discovery** | | | | |
| [**S5-253369**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253369.zip) | | AS5 pCR TR 28.881 Add new issue for Intent handling capability registration and discovery  E: We also gave offline … we want to take the same approach to focus on requirements… only req. DMS-CON-2 seems ok for now.  N: We also gave offline… ok with req. 2 but not on the others.  H: Ok I will remove all solution parts in the revision.   * 4042 | Huawei | Ruiyue Xu |
| **Others** | | | | |
| [**S5-253623**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253623.zip) | | Rel-20 pCR TR 28.881 Add the use case and requirements for supporting multi-intent operations  N: We gave offline comments.. this proposal is not needed.  E. Same comment.  CU: Yes we got offline from E, N, H. Lets try to revise it.   * 4043 | AsiaInfo,China Unicom | Zhanwu Li |
| 6.20.2 Study on AI/ML management phase 3 | | | | |
| [**S5-253403**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253403.zip) | | TR 28.882 v0.0.0 skeleton  **Leaders’ recommendation:**  suggest to use this document as baseline for future work. Suggest to approve 3403. | Ericsson España S.A. | Jose Antonio Ordoñez Lucena |
| S5-253453  (late) | | Management aspects of training optimization and outlier detection in federated learning  **Leaders’ recommendation:**  Rel-20 AIML work should wait to start after Rel-19 work is completed. Suggest to note 3452. | Jio Platforms | raghvendra bhushan |
| S5-253454  (late) | | Management aspects of AIML/FL client groups  **Leaders’ recommendation:**  Rel-20 AIML work should wait to start after Rel-19 work is completed. Suggest to note 3454. | Jio Platforms | raghvendra bhushan |
| 6.20.3 Study on management aspects of Network Digital Twins phase 2 | | | | |
| S5-254072 | | TR 28.883 v0.0.0 skeleton | Huawei | Xian Zhao |
| S5-253455  (late) | | Usecase on NDT based outlier detection and ML model training optimization  **Leaders’ recommendation:**  Rel-20 NDT work should wait to start after Rel-19 work is completed. Suggest to note 3455 | Jio Platforms | raghvendra bhushan |
| 6.20.4 Study on Service Based Management Architecture enhancement phase 4 | | | | |
| [**S5-253343**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253343.zip) | | Study on Service Based Management Architecture enhancement phase 4  **Leaders’ recommendation:** suggest to use this document as baseline for future work. Suggest to approve 3343. | Ericsson Hungary Ltd | Balazs Lengyel |
| [**S5-253701**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253701.zip)  **(late)** | | Rel-20 pCR TR 28.884 Add new use case on distributed deployment scenarios for SBMA  **Leaders’ recommendation:**  Rel-20 SBMA work should wait to start after Rel-19 work is completed. Suggest to note 3701. | China Unicom | Zhaoning Wang |
| 6.20.5 Study on energy efficiency and energy saving aspects of 5G Advanced | | | | |
| 6.20.6 Study on Management Data Analytics (MDA) phase 4 | | | | |
| [**S5-253611**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253611.zip) | | TR 28.886 v0.0.0 skeleton  VC: Editorial on front page, last semicolon to be removed. This can be done in the updated latest draft after the meeting.  Approved | Ericsson(China), Huawei | Gang Li |
| [**S5-253605**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253605.zip) | | Pseudo-CR on TR 28.886 Add clause structure  Approved | Huawei, Ericsson | Brendan Hassett |
| [**S5-253524**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253524.zip) | | Pseudo-CR on TR 28.886 Enhance the mobility performance analysis use case  N: Mot clear whether and how the NSA mobility issue and non-NSA mobility are different. No analysis provided for that. The UC seems to be completely new and no change to the existing UC. The proposed solution does not relate to any of the stated reqs., and the list of stated measurements are hard to understand. Not mentioned if they are specified in RAN.  N: It looks like this introduces a new measurement as a solution. The analytics of that is not clear.  H: Just want to clarify that the NSA mobility issue… it is too early handover, to align with the RAN spec. They have defined it. We have an existing req. that we shall handle it but right now we have no solution.  E: On the lack of analysis, we agree with N. In addition, all reqs. cannot be SHALL.  E: MDA-x2 is like a solution, not a req. We need a generic req. first.  Z: Same as N and E.  Z: You want to enhance the existing MDAS type?  H: Yes.  Z: Please check “Enhance MDARequest IOC…”  H: We already defined the threshold in the MDA request. I can make some rewording.   * 4044 | Huawei | xiaoli Shi |
| **Use cases** | | | | |
| [**S5-253606**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253606.zip) | | Pseudo-CR on TR 28.886 Add MDA integration use case  Z: Name of this UC is confusing.  H: Yes, it is actually difficult to express as a UC.  S: It’s not just the naming… not sure what this UC is asking for.  H: we need better descriptions on how it relates to MDA and many other things. Clause 5.5 does not provide this information and is completely out of date, written 3 years ago. Better to add a final 4th paragraph to clarify that?  Z: For this UC maybe we don’t need a new req. and we can move forward.  N: Similar comment as S. The intention is not clear. And the 2nd para is not clear.  E: Like to understand what else do we need to do from standardisatiojn point of view.  H: AI inference is never mentioned, for example. The relation to other 3GPP MnS.   * 4045 | Huawei | Brendan Hassett |
| [**S5-253607**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253607.zip) | | Pseudo-CR on TR 28.886 Add failure resolution use case  N: “Network failure” is not very clear.  N: How does reports of possible network failure differs from reportiong of alarms?  N. What is demarcation analysis?  E: Need to clarify that MDA only porocides reocmmendation. What the consumer does is decided by the consumer, and we don’t describe that behaviour.  H: The UC is supposed to describe what the consumer needs, but it may be too detailed on what the consumer does with the data.  Z: Whether to verify is the producer’s action…pls. clarify  S: We already have s similar functionality in MDA…  H: No, we have nothing about the current NW failure.  S: What you are asking in the 2nd last para is very strange…  H: Let’s think about it.   * 4046 | Huawei | Brendan Hassett |
| [**S5-253702**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253702.zip)  **(late)** | | Rel-20 pCR TR 28.886 Add new use case on radio resource optimization based on per SSB usage  N: Don’t think we can agree it in this meeting, as it is a late contribution.  S: We object to discuss it because we have not reviewed it.  Not treated. | China Unicom | Zhaoning Wang |
| 6.20.7 Study for Data management phase 3 | | | | |
| [**S5-253364**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253364.zip) | | 28.887 skeleton  VC: Editorials on front page. Can fix it in the updated latest draft after the meeting.  Approved | Ericsson | Robert Petersen |
| [**S5-253707**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253707.zip) | | Pseudo-CR on TR structure for 28.887  H: The title of clause 4… need to align the style (prefer to use Key Issue)  H: Clause 4.x.A.4 is Conclusion, but clause 5 is also Conclusion… Better only have it in clause 5.  N: Ok  E: From the SID we have a number of tasks, and if they go to normative works, we need requirements and solutions, so shouldn’t we have Potential reqs. as well?  N: Ok, we can add Potential reqs.  E: What does “Key” mean? Better just call it Issues or Item.  NEC: At some stage we have agreed that we stick to our template.  N: We will change Key Issues to Use Cases and add Potential requirements.   * 4047 | Nokia | Sreekumar Pothera Kalloor |
| [**S5-253500**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253500.zip) | | Pseudo-CR on Time Issue of External Management Data  Approved | Nokia | Christiane Allwang |
| [**S5-253708**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253708.zip) | | Pseudo-CR on 28.887 Concept and Background on Data Management Support for UE Data Collection  NEC: On the description… it needs to be updated. Don’t need to refer to an LS.  S: This says that “provide the data to a server outside the network”. What does that mean? The OTT server is within the trusted domain.  N: Ok we will clarify.  E: We have a problem with the Problem statement. We need some feedback from RAN on this. Let’s see what comes out of the next RAN meeting. This means that the Description is questionable to keep until we have feedback from RAN. So it’s premature to agree on this now.  Z: On the second para: “3GPP management system controls the UE” needs to be clarified. We can also send some offline comments.  Not pursued (due to E comments). | Nokia | Sreekumar Pothera Kalloor |
| 6.20.8 Study on Enhanced exposure of management services | | | | |
| [**S5-253458**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253458.zip) | | Skeleton for TR 28.888 | Nokia UK | Winnie Nakimuli |
| 6.20.9 Study on Closed Control Loop Management phase 2 | | | | |
| [**S5-253339**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253339.zip) | | 28.889-000 | Nokia | Stephen Mwanje |
| OAM Support feature | | | | |
| 6.20.10 5G Advanced NRM features phase 4 | | | | |
| [**S5-253264**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253264.zip) | | Correction of ProcessMonitor data type  Revised to 3316. | QUALCOMM JAPAN LLC. | PANKAJ SHETE |
| [**S5-253316**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253316.zip) | | Correction of ProcessMonitor data type  MCC comments.  E. The Consequences…(cover page) is misleading. And some inconsistency in the ENUM values.  MCC: Rev. number without 0.   * 4048 | Qualcomm India Pvt Ltd | PANKAJ SHETE |
| [**S5-253265**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253265.zip) | | Correction of ProcessMonitor data type-Yang Stage-3  Revised to 3317.  MCC comments. | QUALCOMM JAPAN LLC. | PANKAJ SHETE |
| [**S5-253317**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253317.zip) | | Correction of Asynchronous operation attributes - YANG Stage-3  MCC: Cover page good now.  E: The Forge link is missing. And the Revision statement in Yang missing.   * 4049 (rev 2) | Qualcomm Incorporated | PANKAJ SHETE |
| [**S5-253376**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253376.zip) | | Rel-20 CR TS 28.541 Enhancement on ManagedNFProfile and NFService  E: We should remove the Default line.  E: Why use Cat B?  Z: Because it is new to this TS.   * 4050 | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253377**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253377.zip) | | Rel-20 CR TS 28.541 Enhancement on AmfInfo  E: The ref. for AmfInfo is wrong.  E: Wrong multiplicity, and AmfEventType is wrong, it should be enum.  S: The attributes proposed must have ref. to one of the CT TSs.   * 4051 | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253378**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253378.zip) | | Rel-20 CR TS 28.541 Enhancement on UpfInfo  S: The attributes proposed must have ref. to one of the CT TSs.  E: A number of other attributes in UPFInfo in the base (CT) spec, why not used here?  Z: It is a step by step work, it’s too many to add at the same time.  E: Then please keep the order of the attributes the same as in the CT spec.  Z: Ok.  E: Pls. use the IPAddress type that supports both V4 and V6 instead of a condition.   * 4052 | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253379**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253379.zip) | | Rel-20 CR TS 28.541 Enhancement on NrfInfo  E. The order of the attributes should be same as in CT.  S: The attributes proposed must have ref. to one of the CT TSs.   * 4053 | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253380**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253380.zip) | | Rel-20 CR TS 28.541 Enhancement on NefInfo and TrustAFInfo  S: The attributes proposed must have ref. to one of the CT TSs.  E: Cover page – wrong datatype.  E: Some attributes have wrong multiplicity.  Z: Please send the comments offline.   * 4054 | ZTE Corporation, Orange | Pengxiang Xie |
| [**S5-253488**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253488.zip) | | Rel-20 CR TS 28.540 Add background and requirements for NR Femto  MCC comments.  MCC: WI code   * 4055 pre-agreed | NTT DOCOMO | Refik Fatih Üstok |
| [**S5-253491**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253491.zip) | | Rel-20 CR TS 28.541 Add Stage 2 and Stage 3 Solutions for NR Femto  DCM: We got some offline comments, prepared a rev1.   * 4056 | NTT DOCOMO | Refik Fatih Üstok |
| [**S5-253526**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253526.zip) | | Rel-20 CR TS 28.541 add cell reselection related configuraion parameters  E: In 38.304, two more items are specified as S-Intrasearch P and S-Intrasearch Q … was it intentional to leave them out?  H: Ok I will check.  Keep open  ->4076 | Huawei | xiaoli Shi |
| [**S5-253551**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253551.zip) | | Status update on tracking stage 3 implementation difference  E: We think it is very valuable work and like to cooperate on this, and we want to ask who is interested in working on this.  Conclusion: Nokia was thanked for this valuable contribution and it was noted. | Nokia, Nokia Shanghai Bell | Sean Sun |
| [**S5-253716**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253716.zip) | | Rel-20 CR TS 28.541 Add NRM enhancements to support management of Ambient IoT  Related tdoc 3716/3433  S: Recommend to create a new CR for R19 replacing 3716, as a first step. Then probably merge it with rev. of 3433.  3716 Not pursued. | Samsung R&D Institute UK | Ashutosh Kaushik |
| **3980** | | New CR for R19 replacing 3716. CR# 1600  Update 0828: Rev1 in Drafts. Discussions ongoing. | Samsung |  |
| [**S5-253720**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253720.zip) | | Rel-20 CR TS 28.540 Add concept and background for management of Ambient IoT  Related tdoc 3720/3432  S: This will be merged with the revision of 3432->3979. | Samsung R&D Institute UK | Ashutosh Kaushik |
| 6.20.11 5G performance measurements/KPIs and Trace/MDT/QoE | | | | |
| [**S5-253238**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253238.zip) | | Rel-20 CR TS 28.622 Corrections on Triggering Event  Agreed. | Ericsson | Qiang Zu |
| [**S5-253243**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253243.zip) | | Rel-20 CR TS 28.552 Aggregated Performance Measurement  Agreed. | Ericsson | Qiang Zu |
| [**S5-253736**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253736.zip) | | Rel-19 CR TS28.622 Add attribute for continuous MDT  Merged in 3907 | ZTE Corporation | Bangqiu Ruan |
| 6.20.12 Management Aspects related to NWDAF phase 3 | | | | |
| [**S5-253390**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253390.zip) | | Rel-20 CR TS 28.541 Enhancement of TrustedAF information to support VFL  MCC comments.  Reallocate 6.4.12->6.20.12  HW offline comments  E offline comments  MCC: keep rev1 in 4060  ->4060 | AsiaInfo,China Telecom | Zhanwu Li |
| [**S5-253391**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253391.zip) | | Rel-20 CR TS 28.541 Enhancement of unTrustedAF information to support VFL  MCC comments.  Reallocate 6.4.12->6.20.12  MCC: remove <> , keep rev1  E: vfInfo O/condition?  Where this attribute is used?  ->4061 | AsiaInfo,China Telecom | Zhanwu Li |
| [**S5-253417**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253417.zip) | | Rel-20 CR 28.552 Add a new measurement related to the number of roaming data collection service subscriptions received by RE-NWDAF  E: usecase should be added.  ->4062 | China Telecom | Zhen Li |
| [**S5-253428**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253428.zip) | | Rel-20 CR 28.552 Add a new measurement related to the number of roaming data collection service notifications generated by RE-NWDAF  E: usecase should be added.  ->4063 | China Telecom | Zhen Li |
| [**S5-253441**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253441.zip) | | Rel-20 CR 28.552 Add new measurements related to the number of successful and failed roaming data collection service subscriptions received by RE-NWDAF  E: usecase should be added.  ->4064 | China Telecom | Zhen Li |
| [**S5-253442**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253442.zip) | | Rel-20 CR 28.552 Add a new measurement related to the time consumed by the RE-NWDAF to provide roaming data collection service  E: usecase should be added.  ->4065 | China Telecom | Zhen Li |
| [**S5-253643**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253643.zip) | | Rel-20 CR TS 28.541 Enhancement on MlAnalyticsInfo to support VFL capability  E: relation between vflTimeInterval and flTimeInterval?  relation between flCapabilityType and vflCapabilityType?  Keep open. | Huawei | Zhuoyuan Tian |
| 6.20.13 OAM support for Extended Reality and Media service (XRM) phase 2 | | | | |
| [**S5-253382**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253382.zip) | | Rel-20 CR TS 28.541 Enhancement on PreDefinedPccRule for ECN marking  E: missing definition ECN/LCS?  l4sInd relation with uplink? Is it configuration or provided by producer?  CT: why configure this from AMF?  ->4066 | ZTE Corporation | Pengxiang Xie |
| [**S5-253383**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253383.zip) | | Rel-20 CR TS 28.541 Enhancement on PreDefinedPccRule for exposure of information related to XRM service based on QoSMonitoring  E: Is it configuration or provided by producer?  ->4067 | ZTE Corporation | Pengxiang Xie |
| [**S5-253384**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253384.zip) | | Rel-20 CR TS 28.541 Enhancement on PreDefinedPccRule for PDU set based handling  E: Is it configuration or provided by producer?  CT: question on whether OAM can configure the pccRule.  ->4068 | ZTE Corporation | Pengxiang Xie |
| [**S5-253385**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253385.zip) | | Rel-20 CR TS 28.541 Enhancement on QoSData to support PDU Set QoS Parameters  E: Is it configuration or provided by producer?  Allowedvalue could be Boolean.  ->4069 | ZTE Corporation | Pengxiang Xie |
| [**S5-253418**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253418.zip) | | Rel-20 CR TS 28.540 Add Stage 1 for Management of XRM Service  E: question whether pccrule is the only impact of your requirement?  Agreed. | ZTE Corporation | Pengxiang Xie |