3GPP TSG-SA WG5 #162 S5-253221

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

**Title:** OAM Breakout Notes

**Document for:** Information

**Agenda Item:** 6.1

# Agenda

**Tuesday breakout 2-Q1 (6.1/6.19.14 TraceQoE\_OAM Continuous MDT)**

**(start from 9:30) (60m)**

6.1

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| 6.1. OAM&P Plenary | | | |
| [**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)  Check of RAN3 principles:  •Information from OAM to the NG-RAN nodes participating to Continuous MDT, allowing for the identification of a continuous MDT process, are provided e.g. in the form of specific Trace Reference(s).  ->Huawei/Nokia/Ericsson/CATT/China Telecom/ZTE agreed with this principle.  •Solutions for Continuous MDT shall not have an impact on the 5GC in Rel19 from a RAN3 perspective.  Huawei/Nokia do not agree with this principle:   * Huawei: if TR and TRSR1 are stored in the 5GC UE context via immediate MDT, gNB can obtain this information that previously gNB used immediately through UE context. * Nokia: prefer no restrictions on using 5GC to fulfill the solution.   Ericsson/CATT/China Telecom/ZTE agreed with this principle.   * Ericsson do not agree with “immediately” in HW comments. * Ericsson: RAN has made conclusion and should not be challenged by SA5.   •RAN3 agrees to use TR(s) and TRSR(s) to resolve the MDT measurement correlation problem  ->Huawei/Nokia/Ericsson/CATT/China Telecom/ZTE agreed with this principle.  Huawei/Nokia/Ericsson/CATT/China Telecom/ZTE agreed that there is no security risk from SA5 perspective.SA3 needs to be involved. | Ericsson Japan K.K. | Qiang Zu |

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| 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  Not discussed in BO. | 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  3231d1: agreed with making the following update for “connected-mode inter-gNB mobility procedure” ,”In this case, both the received TRSR from source gNB and the reassigned TRSR shall be included in first Trace Record Header of the MDT measurements report.”  Nokia: prefer to have dynamic TRSR prefix range solution considering the limitation of number of gNB/UEs. Still to check the number of gNBs/UEs is sufficient.  China Telecom: prefer dynamic TRSR prefix. | 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  Not discussed in BO. | 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  Not discussed in BO. | Ericsson, Deutsche Telekom | Qiang Zu |

**Tuesday breakout 2-Q4 (6.19.1.1 AIML) (90m)**

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| * 1. **6.19.1.1 AI/ML management phase 2** | | | |
| **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  E: environment safety?  Handle more than one ? gradually evaluate?  The inference emulation should indicate the safety level of the environment for which the ML model has been emulated?  Safety environments is subjective. Where to get the indication?  Cardinality of EnvironmentType is inconsistent. Prefer one single environment for one producer.  NEC: “to configure a managed function to act as a ML inference emulation MnS producer and execute ML models in a controlled way.” ?  simScope?  E: offline proposals.  Suggest to revise to S5-25abcd. | 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  HW: procedure is missing.  E: suggest to split to two : (1) training part to be merged with 3473. (2) others  Agree to merge the training part into 3473.  N: scalability issue. Introduce some details.  Testing:  E: concern on step 6, should not have the limitation step4/5 before step 6.  Step 5: optional. Step 7 needs to be updated.  Step 4 to 6 are interchangeable.  Model deployment:  E: Similar comments as testing.  Do not keep model deployment procedure for this meeting.  AIML Inference:  E: do not agree with AIML inference procedure as NRM solution is wrong. Concern on step 5.  N: suggest to remove “based on the specified ML Model(s).” from step 5.  Suggest to revise to S5-25abcd. | 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  N: step 10, to be consistent with procedure. Replace “query” to “read”  Step 11, replace “return” to “response”. | 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  N: 6.5.4.2 why remove the first sentence?  E: 6.5.4.2 remove “defined”  E: 4a.2  Suggest to revise to S5-25abcd. | 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  E: remove E from co-sign.  Suggest to revise to S5-25abcd. | 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  E: offline editorial comments.  Suggest to revise to S5-25abcd. | 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  Will be updated according to stage2. | NEC, Nokia, Nokia Shanghai Bell, Ericsson | Hassan Al-kanani |

**Tuesday breakout 2-Q5 (6.19.8.1 SBMA) (30m)**

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| 6.19.8.1 Service Based Management Architecture enhancement phase 3 | | | |
| [**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  Not discussed in BO | 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  N: clarify the MLTRF is MnF/managed Function/Management Function?  Offline. | 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  Not discussed in BO | NEC, Intel, Huawei, AT&T, ZTE, CATT, MATRIXX Software, Deutsche Telekom, Verizon, China Unicom, China Mobile, Orange | Hassan Al-kanani |
| [**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.  Not discussed in BO | 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  Not discussed in BO | 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  E: traditional interface. ABC?  Suggest to revise to S5-25abcd. | 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  E: EPTransportRef is an example for the issue.  DT: For the case of inconsistency, it could be taken as FASMO.  HW: should belong to adNRM work, not SBMA.   1. Conflicting definitions should be corrected in Rel-19, missing imported definitions to be corrected in Rel-20. 2. For separating TS 28.541, need further study and could check with MCC. 3. Ok to endorse.   Suggest to revise to S5-25abcd. | Ericsson Hungary Ltd | Balazs Lengyel |

**Wednesday breakout 3-Q1 (6.19.6 CMO) (60m)**

Discussion sequence proposed by rapporteur: 3354/3427/3481/3697/3355/3448/3698/3352/3449/3440/3430/3439/3480/3450/3710/3451

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| 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  FROM MAIN SESSION TUESDAY:  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)   CONTINUATION IN 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  DCM: Why are the Editor’s notes deleted?  E: We thought not needed because they are only giving examples.  N: We can add some text to clarify this and then we can remove them   * BO session recommends a revision | 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  N: We don’t agree to “A CR represents NF Deployment instance(s) and conforms to the schema defined in Kubernetes CRD [46].”  N. The ref. 46 is about open telemetry and nothing to do with the CRD.  R: OK, we can work on it offline.  O: Want to co-sign  H: The options need to be properly structures.  E: The options 2 is too much implementation specific.  E: Like N, the CRD is also impl. specific. Option 2 should be very abstract.  DCM: Also have comments, offline.  N: 3.Y and 3.Z is implementation specific and we don’t agree with adding these solutions.  E and H: Agree with N.   * BO session recommends a revision | 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  DCM, CMCC and E: We propose to merge the following documents: 3354, 3481, 3697, 3427 (baseline)  H: This is a mix of evaluations and recommendation, so recommendations should move to a recommendations clause (not part of the merge of these four document, it could move to 3352).  E: Agree with H.  DCM, E, R and N: We have more comments, can take offline.   * BO session asks to Merge this in revision of 3427 | 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  DCM, CMCC and E: We propose to merge the following documents: 3354, 3481, 3697, **3427 (baseline)**  N: What does it mean in 5.2.1.4 that “In summary, the solution is feasible and optional”?  H: I don’t think we have a complete solution described, so don’t think it is feasible.  DCM, E, R and N: We have more comments, can take offline.   * BO session asks to revise this | 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  DCM, CMCC and E: We propose to merge the following documents: 3354, 3481 (evaluation part), 3697, 3427 (baseline)  DCM, H, E, R and N: We have more comments, can take offline.  All: Propose to merge 3698, 3352 (part related to rec. on LCM), 3440, 3481 (rec. part)   * BO session asks to Merge this in revision of 3427 (evaluation part) | 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  DCM, CMCC and E: We propose to merge the following documents: 3354, 3481, 3697, 3427 (baseline)  DCM, E, H, R and N: We have more comments, can take offline   * BO session asks to Merge this in revision of 3427 | 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  DCM , E and N: Propose to merge with 3448  N: We don’t sdpecify interactions between producers and external systems, they are out of scope for SA5.  N: The MnS producer needs to be aware of the VNF generic OAM functions and the MnS producer doesn’t need to be aware, it’s up to implementation.  N: We don’t agree on “For NF Deployments configuration of non-application parameters 3GPP specifications like 28.531, 28.533 need to consider also the interfaces specified in ETSI GS NFV-IFA 049, besides ETSI GS NFV-IFA008”. Similar comments apply to the following clauses.  H: Agree with N.  E: In this evaluation, the term NF Deployment is not agreed yet.   * BO session asks to merge with 3448 | 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  DCM , E and N: Propose to merge with 3355 (3448 as base)  DCM: We have many comments… this is resubmitted from last meeting, so our previous comments apply.  DCM: For example, 5.1.2.4 (bullet 2) claims that there is an unclear relationship, but it is very clear because we have a standardised interface.  N: Standardised by whom? It is outside SA5. What is the impact on the 3GPP mgmt system?  CMCC: Please try to use general descriptions, as this is an evaluation.  H: In several cases there is a list of clauses, but one is missing in each solution.   * BO session asks to revise it | 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  R, E: We object.  H: Please tell us the reason.  R: It is not SA5 scope to define what is an NF.  H: We are not saying that, just clarify that the scope is only for CN.  E: the SID has coverage for both RAN and CN.  H: That is a mistake.  E: The RAN spec doesn’t care about virtualisation.  E: In 28.531 it only mentions LCM.  H: If RAN and CN don’t care about what is virtualised, why do we care?  Keep open | 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  All: Propose to merge 3698, 3352 (part related to rec. on LCM), 3440, 3481 (rec. 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  All: Propose to merge 3698, 3352 (part related to rec. on LCM), 3440, 3481 (rec. part)  All: Part of 3352 (related to VNF generic OAM) should be merged with 3449. | 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  All: Part of 3352 (related to VNF generic OAM) should be merged with 3449.   * BO session asks to revise this (merged with part of 3352) | 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  All: Propose to merge 3698, 3352 (part related to rec. on LCM), 3440, 3481 (rec. part) | 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  DCM: We have minor comments.   * BO session asks to revise it. | 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  N: Propose to merge this with 3710 | 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  N: Propose to merge this with 3450 (use 3710 as base)   * BO session asks to revise this | Rakuten Mobile, Inc | KEXUAN SUN |

**Wednesday breakout 3-Q2 (6.19.5.1 NDT) (90m)**

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| 6.19.5.1 Management aspects of Network Digital Twins | | | |
| **Use case update** | | | |
| [**S5-253534**](https://www.3gpp.org/ftp/tsg_sa/WG5_TM/TSGS5_162/Docs/S5-253534.zip) | Clarify evaluation of high-risk operation  Z: Why remove the 2nd last para?  E: Ok we can work on an update offline, but it was merged with the other text.  Z: We also gave some other offline comments.   * BO session asks to revise it | 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  H: For the 2st para, on “The interactions between multiple NDTs can be within the same management domain or between different management domains” – pls. clarify.  E: Ok we can try to clarify what “interaction” means, e.g. collaborating NDTs (or remove the sentence).  H: For the 2nd para, what does “may express its preferences regarding relationships between NDTs” mean?  E: The original text said that the consumer should be able to configure the relationship. It’s up to the producer to realize if those configurations make sense or not. We are in the UC here, not solution. We can work on an update.  H: This is the only UC left that talks about NDT only; I think it should be NDT functions.  E: OK, we can update it.   * BO session asks for a revision | 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  Z: Not supportive to this, don’t agree with the change in 5.2.2.2, don’t agree to remove the policy. And it changes so many clauses that it conflicts with other contributions.  CMCC: Agree with Z, and also don’t agree with the changes in 5.2.2.3.  E: Suggest that N may move some agreed parts to merge with other tdocs which are overlapping.  H: We disagree with the change in 5.2.3 (req. -06)   * BO session recommends that N move any parts that can be agreed to other overlapping contributions. | 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  Z: Also has overlap with previous contributions.  Z: We don’t understand the reason for the removal in 5.2.2.2, explained in the Comments. And this change should be merged with the E contribution 3534.  E: It also overlaps with 3549. We could merge those parts to 3549 (third change), and the first change to 3534.  H: Ok.   * BO session asks to revise this (keeping the second change) | 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  E: The abbreviations like AIML and HW/SW are well-known, and we don’t need to define them. Other new acronyms should be introduced in 21.905 if they are not already there. Several of them like NDT, SLA are already defined there. We can work on an update offline.  H: Ok.   * BO session asks to revise it | 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   * BO session recommends to approve it | 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  E: Some typos: “clarifies” -> “clarified”, “editor’” -> “editor’s”   * BO session asks to revise and pre-approve it | China Mobile | Yushuang Hu |

**Wednesday breakout 3-Q4 (6.19.21.1 MExpo) (90m)**

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| 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** | | | |
| [**S5-253470**](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  Suggest to offline | 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  Suggest to offline | 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  Suggest to offline | 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  E: keep the existing EN text and convert it to note.  apiProvCert: are provided->can be provided.  Suggest to revise to S5-25abcd | 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  No comments. | 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  N: editorial comments.  E: first sentence add reference to SA6. Remove “The discovery policy information configured on CCF on a per API invoker basis is at the operator’s requirements. In addition, the operator's requirements are based on the business agreements settled with the stakeholder owning the API invoker.”  Suggest to revise to S5-25abcd | 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  N: serviceAPICategory -> N/A  apiProvName->the value shall be management system.  resourceName: no change.  Fqdn/apiPrefix is not MnSScope  E:offline comments.  apiName: keep existing no change.  Suggest to revise to S5-25abcd | 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  N: do not agree with reference change in Annex A.  E: prefer original version for 1st change.  Suggest to revise to S5-25abcd | 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  N: clarification on the intention/ REQ-MEXPO-LOG-03.  E: reword requirements.do not agree REG-234/FUN-01  SS: do not agree with FUN-01 update.  Suggest to revise to S5-25abcd | 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  Not treated in BO. | Nokia UK | Winnie Nakimuli |