**3GPP TSG SA WG5 (Telecom Management) Meeting #135e S5-211**

**25 January – 3 February 2021, E-meeting**

**Source: SA5 Chair)**

**Title: OAM Agenda\_with\_Tdoc\_sequence proposal**

**Document for: Information**

**Agenda Item: 6.1**

## A. Introduction:

This document includes OAM tdocs sequence, grouping proposal and Chair notes of the discussion.

**1. SA5#134e OAM Sessions email thread detailed principles:**

* 1. Grouping of the tdocs according to the following principles for each OAM agenda item:
		+ Combine all the editorial tdocs in one email thread
		+ Combine the related stage 2 and stage 3 tdocs in one email thread
		+ Combine the technical related tdocs in one email thread
		+ A coordinator of the email thread is nominated in THIS document. The responsibility of the coordinator is described in the e-meeting process slides.
	2. For the tdocs which do not have related tdocs, the author of the tdoc is the coordinator of the email thread. The single tdoc will go for email thread independently following the process as described in the e-meeting process slides.

**2. The responsible Chair/VC as moderator for each agenda item in email thread:**

* Thomas Tovinger: (the following agenda items are kept in Thomas’s copy of the chair notes)
	+ 1~5 12
* 6.1 OAM plenary 29
* 6.2 new WID 8
* 6.3 MAINT 44
* 6.4
* 6.4.1 OAM\_NPN 7
* 6.4.2 EMA5SLA 10
* 6.4.3 e\_5GMDT 9
* 6.4.4 adNRM 6
* 6.4.5 eQoE 1
* 6.4.6 ePM\_KPI\_5G 6
* Zou Lan: (the following agenda items are kept in Zou Lan’s copy of the chair notes)
	+ 6.4.7 eMEMTANE 1
	+ 6.4.8 MADCOL 1
	+ 6.4.9 ANL 4
	+ 6.4.10 IDMS\_MN 5
	+ 6.4.11 NPM 0
	+ 6.4.12 eCOSLA 8
	+ 6.4.13 eSON\_5G 5
	+ 6.4.14 E\_HOO 4
	+ 6.4.15 EE5GPLUS 2
	+ 6.4.16 5GDMS 4
	+ 6.4.17 MANS 14
	+ 6.5
	+ 6.5.1 FS\_5GSAT\_MO 3
	+ 6.5.2 FS\_EE5G 9
	+ 6.5.3 FS\_eEDGE\_Mgt 14
	+ 6.5.4 FS\_eMDAS 21
	+ 6.5.5 FS\_NSMEN 5
	+ 6.5.6 FS\_YANG 0
	+ 6.5.7 FS\_MNSAC 6

**3. Time plan / agenda for the conference calls: (The following table are kept in Thomas’s copy of the chair notes)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date**  | **Mon 25 Jan** | **Tue 26 Jan**  | **Wed 27 Jan** | **Thu 28 Jan** |
| **Time** | **14.00-16.00 CET** | **14.00-16.00 CET** | **14.00-16.00 CET** | **14.00-16.00 CET** |
| **Agenda** | **1. SA5 opening plenary** 1. SA5 General information (e.g. process clarification, working procedures, calendar) (14:00~14:40)
2. SA5-level agenda items (2-5.x) initial discussion (S5-211022/1122/1252, S5-211014, S5-211017, S5-211029) (14:40-15:10)

**2. OAM - 6.1**1. LSs that need discussion/decision (S5-211021/S5-211094/S5-211192/S5-211308,) (15:10-16:00)
 | 1. FORGE issues reported by Nokia (email to OAM exploder and S5-211348 TD forge process proposal for yaml code in 135e meeting) (14:00-14:15)2. 6.1 LSs that need discussion/decision (S5-211016/S5-211028, S5-211023/S5-211031, S5-211024/S5-211056/S5-211025, S5-211019/S5-211026, S5-211030/S5-211191, S5-211018/S5-211051, S5-211020, S5-211027, S5-211347, S5-211346, S5-211345) (14:15-14:45)3. 6.2 WID/SIDsA. GROUP #1 (S5-211212/S5-211213) enhancement of service based management architecture (14:45-15:00)B. GROUP #2 (S5-211319/S5-211320) Generic Plug and Connect (15:00-15:15)C. GROUP #3 (S5-211332/S5-211338) CI-CD support for network slicing (15:15-15:30)D. S5-211105 New WID Enhancements of Management Data Analytics Service (15:30-15:45)E. S5-211205 New SID on management aspects of network slice capability exposure (15:45-16:00) | 1. FORGE issues reported by Nokia (S5-211348 TD forge process proposal for yaml code in 135e meeting) (14:00-14:30)3. 6.2 WID/SIDsA. GROUP #1 (S5-211212/S5-211213) enhancement of service based management architecture (14:30-14:35)B. GROUP #2 (S5-211319/S5-211320) Generic Plug and Connect (14:35-14:50)C. GROUP #3 (S5-211332/S5-211338) CI-CD support for network slicing (14:50-15:05)D. S5-211105 New WID Enhancements of Management Data Analytics Service (15:05-15:20)E. S5-211205 New SID on management aspects of network slice capability exposure (15:20-15:35)3. 6.4.17- MANS, GROUP#4 (S5-211194/S5-211195/S5-211228/S5-211287/S5-211288) NRM support for MOCN (15:35-16:00) | 1. 6.5.3 FS\_eEDGE\_Mgt pCRsA. Solutions for EES deployment (S5-211115, S5-211255) (14:00-14:20)B. Solutions for ECS deployment (S5-211071, S5-211116, S5-211257) (14:20-14:40)2. 6.4.16 5GDMS A. GROUP#1 (S5-211067/S5-211068) DMS use cases and requirements (14:40-15:00)3. 6.5.2 FS\_EE5G GROUP#1 (S5-211037/S5-211040/S5-211157) 5GC Energy Consumption (15:00-15:20)GROUP#3 (S5-211033/S5-211136) Update clause 4.4 (15:20-15:40)4. List of approved DraftCRs S5-211089 (15:40-16:00) |
| **Moderator** | Thomas/Zou Lan | Thomas/Zou Lan | Thomas/Zou Lan | Thomas/Zou Lan |

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| **Date**  | **Fri 29 Jan** | **Mon 1 Feb** | **Tue 2 Feb** | **Wed 3 Feb** |
| **Time** | **14.00-16.00 CET** | **14.00-16.00 CET** | **14.00-16.00 CET** | **14.00-16.00 CET** |
| **Agenda** | 1. 6.4.2 EMA5SLA GROUP#2 (S5-211066/S5-211159/S5-211160/S5-211245/S5-211249/S5-211335) Input to draftCR (14:00-14:30)2. 6.5.4 FS\_eMDAS GROUP#1 (S5-211054/S5-211146/S5-211153) MDA assisted energy saving (14:30-15:00)3. 6.4.8-MADCOL, S5-211301 Rel-17 Draft CR 28.537 Add requirements for Management Data Management (15:00-15:30)4. 6.1-OAM, S5-211036 Discussion on issues found in TS 28.531 and TS 28.541 (15:30-16:00) | 1. 6.2 S5-211205 New SID on management aspects of network slice capability exposure (14:00-14:20)
2. Forge process (is S5-211348d2 option 3 acceptable as proposed?) (14:20-14:35)
3. 6.4.16 5GDMS S5-211215 TS28.533 Add Management Service Type (14:35-14:45)

4. 6.4.12- eCOSLA (14:45-16:00)S5-211339 Discussion on how to document solutions for ACCL use casesS5-211284 pCR 28.811 Service life cycle concept and scenarioseCOSLA GROUP#2 (S5-211151/S5-211161) policy for closed control loopS5-211152 Rel-17 CR TS 28.536 Add assurance report for closed control loopS5-211190 Rel-17 CR TS 28.535  add relationship between control loop and Communication service and NetworkSlice LCM | No CC planned | **Closing SA5 Plenary** |
| **Moderator** | Thomas/Zou Lan | Thomas/Zou Lan | Thomas/Zou Lan | Thomas |

## B. SA5 level tdocs: (Total 14 tdocs/ 8 email threads (2 groups+ 6 tdocs))

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| **1** | **Opening of the meeting** |
| **2** | **Approval of the agenda**  |
| **3** | **IPR and legal declaration**  |
| **4** | **Meetings and activities reports** |
| **4.1** | **Last SA5 meeting report**  |
| **4.2** | **Last SA meeting report** |
| **4.3** | **Inter-organizational reports**  |
| **5** | **Cross-SWG issues**  |
| **5.1** | **Administrative issues at SA5 level** |
| **5.2** | **Technical issues at SA5 level**  |
| **5.3** | **Liaison statements at SA5 level** |
| **5.4** | **SA5 meeting calendar** |

**SA5 email thread TITLE list (8)**

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| [SA5#135e], SA5 Plenary, GROUP#1 (S5-211000/S5-211001/S5-211002/S5-211003/S5-211011) |
| [SA5#135e], SA5 Plenary, GROUP#2 (S5-211022/S5-211122/S5-211252) controlling the number of UEs and PDU Sessions in a Network Slice |
| [SA5#135e], SA5 Plenary, S5-211010 SA5 working procedures |
| [SA5#135e], SA5 Plenary, S5-211314 TD tenant information to support multi-tenancy for network slice management. |
| [SA5#135e], SA5 Plenary, S5-211014 LS to SA5 on NGMN 5G End-to-End Architecture Framework (Phase-3) |
| [SA5#135e], SA5 Plenary, S5-211017 New Whitepaper: “Operator Platform Telco Edge proposal" |
| [SA5#135e], SA5 Plenary, S5-211029 LS to SA5 on Use of Inclusive Language in 3GPP |
| [SA5#135e], SA5 Plenary, S5-211013 SA5 meeting calendar |

**SA5 Plenary GROUP#1 (S5-211000/S5-211001/S5-211002/S5-211003/S5-211011) (5)**

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| [**S5-211000**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211000.zip) | Agenda**Conclusion: Approved** | WG Chair | Thomas Tovinger | 2 |
| [**S5-211001**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211001.zip) | Report from last SA5 meeting**Conclusion: Approved** | MCC | Mirko Cano Soveri | 4.1 |
| S5-211002 | e-meeting process31 Jan.: First set of comments + **rev1 uploaded (by chair)****Conclusion: Rev1 Noted – take out new tdoc# in 3GU for the final version** | WG Chair | Thomas Tovinger | 5.1 |
| S5-211003 | Post e-meeting email approval status | WG Chair | Thomas Tovinger | 5.1 |
| S5-211011 | Process for management of draft TS-TRs**Conclusion: Noted** | WG Chair | Thomas Tovinger | 5.1 |

**SA5 Plenary GROUP#2 (S5-211022/S5-211122/S5-211252)** **controlling the number of UEs and PDU Sessions in a Network Slice (3)**

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| [**S5-211022**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211022.zip) | LS to SA5 on controlling the number of UEs and PDU Sessions in a Network Slice(reallocate 6.1->5.3)**Conclusion: Replied to (in rev. of 1122)** | S2-2009214 | Mirko Cano Soveri |
| [**S5-211122**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211122.zip) | LS reply to LS on controlling the number of UEs and PDU Sessions in a Network SliceReallocate 7.1 -> 5.3SA5 Opening Plenary conf call (Monday 25th) (notes by Maryse):**S:** "quota management" removed from the study to be approved, and now mentioned as implicitly covered under "converged charging"=> reopening the debate. 3rd §: S5-211076 not aligned 4th §: S5-211109, not aligned with SA2 decision on a new function**E:** Not sure these parameters should be enforced. We should allow flexibility for Operators, e.g. paying X by the limit, and allow more if paying more.**H:** this is a discussion for Charging. 3rd § SA2 Key issues**NEC:** SA2 in normative phase, while our cases is a study with parallel solutions**E:** we could have one answer at SA5 level with information handled differently (from both perspectives) 1 Feb.: More comments **(Samsung objects)****1 Feb.: rev1 uploaded**1 Feb.: More comments **(Samsung still objects)**1 Feb.: More comments (from Docomo)1 Feb.: More comments + **rev2 uploaded**1 Feb.: More comments + **rev3 uploaded****2 Feb: Samsung withdraws their objection for rev3.****Conclusion: Rev3 approved – take out new tdoc# in 3GU for the final version** | Nokia, Nokia Shanghai Bell | Maryse |
| [**S5-211252**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211252.zip) | LS to SA2 on Slice ConfigurationsReallocate 6.1 -> 5.3**SA5 Opening Plenary conf call (Monday 25th)** (notes by Maryse):**NOK:** context?**S:** eMA5SLA (ServiceProfile -> SliceProfile -> parameters). Inform SA2, SA5 concluded all information required from OAM to 5GCore**NEC:** too early for exact name (stage 3 and SA2 has not started)**E**: too early, not clarified in SA5 if config the Core? RAN? Others?**NOK (Anatoly):** not yet down to Core specific slice profile, detailed parameters. Pure OAM discussion**SA5 VC (Nokia)** proposes to relocate the LS under eMA5SLA, but after some discussions, it was decided to keep it under the group.1 Feb.: (rev1 +) **rev2 uploaded**, trying to address comments received in Opening Plenary1 Feb.: More comments – Nokia unsupportive; Matrixx proposes to postpone the LS till SA2 concluded on Key issue #3 in the related study.**Conclusion: Postponed** | Samsung Electronics Benelux BV | Deepanshu Gautam |

**Leaders recommendation for (S5-211022): Discuss in Monday 25 January Conf call. Check OAM relevance. There is 1 CH draft reply tdoc (S5-211122) and 1 OAM related LS provided. Reply LS (S5-211122) to be discussed in Thursday CH conf call.**

**SA5 Opening Plenary conf call (Monday 25th)** (notes by Maryse)**:**

**Although the LS [S5-211122](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211122.zip) is under CH AI scheduled to start only from Thursday, it is open for review at SA5 level under GROUP#2 from today (to collect OAM-related comments)**

**The following tdocs will be treated as individual email thread (6)**

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| S5-211010 | SA5 working procedures31 Jan.: First set of comments + **rev1 uploaded (by chair)****Conclusion: Rev1 approved – take out new tdoc# in 3GU for the final version** | WG Chair | Thomas Tovinger | 5.1 |

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| [**S5-211314**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211314.zip) | TD tenant information to support multi-tenancy for network slice management.26 Jan: first set of comments27 Jan.: More comments29 Jan: More comments + **Rev1 uploaded**1 Feb.: More comments + **Rev2 uploaded****Conclusion: Rev2 endorsed – take out new tdoc# in 3GU for the final version** | Nokia, Nokia Shanghai Bell | Jing Ping | 5.2 |

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| [**S5-211014**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211014.zip) | LS to SA5 on NGMN 5G End-to-End Architecture Framework (Phase-3)SA5 Opening Plenary conf call (Monday 25th) (notes by Maryse):**E**: no specificreply expected. Will be covered under Company contributions**NEC:** LS for information**Conclusion: Noted** | NGMN | Mirko Cano Soveri | 5.3 |

**Leaders recommendation for (S5-211014): no related reply LS submitted, need to consider whether reply is needed.** **Decision to be made in Monday 25 January Conf call.**

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| [**S5-211017**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211017.zip) | New Whitepaper: “Operator Platform Telco Edge proposal"SA5 Opening Plenary conf call (Monday 25th) (notes by Maryse):**S:** this may have a relationship withthe study, and we may want to send a replyIf Needed, get back to Thomas/Zoulan/Mirko for reserving a Tdoc nb for the reply**Conclusion: Postponed** | GSMA | Mirko Cano Soveri | 5.3 |

**Leaders recommendation for (S5-211017): no related reply LS submitted, need to consider whether reply is needed.** **Decision to be made in Monday 25 January Conf call.**

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| [**S5-211029**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211029.zip) | LS to SA5 on Use of Inclusive Language in 3GPPSA5 Opening Plenary conf call (Monday 25th) (notes by Maryse):Action for all TSs rapporteurs to search and check if they are aligned (mainly no use of "Master/Slave", White/Black list") and bring corrective CRs for the next SA5#136e to the next SA if needed.Action to be at SA5 level (Check with Mirko if possible)**Conclusion: Noted** | SP-201143 | Mirko Cano Soveri | 5.3 |

**Leaders recommendation for (S5-211029): no related reply LS submitted, need to consider whether reply is needed.** **Decision to be made in Monday 25 January Conf call.**

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| S5-211013 | SA5 meeting calendar28 Jan: First set of comments (rev1 uploaded)**Conclusion: Rev1 Noted – take out new tdoc# in 3GU for the final version** | WG CHair | Thomas Tovinger | 5.4 |

## C. Start of OAM tdocs:

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| **6** | **OAM&P**  |  |  |

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| **6.1** | **OAM&P Plenary** |  | **Total 28 tdocs/ 18 email threads (8 groups+ 10 tdocs)** |  |

### 6.1 OAM email thread TITLE list (19)

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| --- |
| [SA5#135e], 6.1-OAM, GROUP #1 (S5-211021/S5-211094/S5-211192/S5-211308) Enhancement of RAN Slicing |
| [SA5#135e], 6.1-OAM, GROUP #2 (S5-211016/S5-211028) relation between EDGEAPP and ETSI MEC architectures |
| [SA5#135e], 6.1-OAM, GROUP #3 (S5-211023/S5-211031) LS on network data analysis energy saving |
| [SA5#135e], 6.1-OAM, GROUP #4 (S5-211024/S5-211056/S5-211025) OAM that supports RAT/frequency data and cell energySaving state |
| [SA5#135e], 6.1-OAM, GROUP #5 (S5-211019/S5-211026) LS on NR QoE |
| [SA5#135e], 6.1-OAM, GROUP #6 (S5-211088/S5-211089) useful document |
| [SA5#135e], 6.1-OAM, GROUP #7 (S5-211030/S5-211191/S5-211349) O-RAN-3GPP cooperation |
| [SA5#135e], 6.1-OAM, GROUP #8 (S5-211018/S5-211051) user consent for trace reporting |
| [SA5#135e], 6.1-OAM, S5-211020/S5-211350 Reply LS to SA5 on QoS Monitoring for URLLC |
| [SA5#135e], 6.1-OAM, S5-211027 LS reply to SA5 on QoE Measurement Collection |
| [SA5#135e], 6.1-OAM, S5-211036 Discussion on issues found in TS 28.531 and TS 28.541 |
| [SA5#135e], 6.1-OAM, S5-211078 Rel-17 CR TS 32.160 Update on template for requirement specifications |
| [SA5#135e], 6.1-OAM, S5-211081 Rel-17 time plan proposal for OAM |
| [SA5#135e], 6.1-OAM, S5-211004 OAM&P action list |
| [SA5#135e], 6.1-OAM, S5-211005 agenda\_with\_Tdocs\_sequence\_proposal\_OAM |
| [SA5#135e], 6.1-OAM, S5-211006 OAM Exec Report |
| [SA5#135e], 6.1-OAM, S5-211007 OAM Chair notes and conclusions |
| [SA5#135e], 6.1-OAM, S5-211012 List of DraftCR input and output |
| [SA5#135e], 6.1-OAM, S5-211348 TD forge process proposal for yaml code in 135e meeting |

**OAM GROUP #1 (S5-211021/S5-211094/S5-211192/S5-211308) Enhancement of RAN Slicing (4)**

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| [**S5-211021**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211021.zip) | Response LS to SA5 on Enhancement of RAN Slicing**Conclusion: Replied to (in rev. of 1094)** | R3-207236 | Mirko Cano Soveri |
| [**S5-211094**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211094.zip) | Reply LS on Enhancement of RAN Slicing(reallocate 5.3->6.1)CC 25 Jan.: Use as baseline for reply LS 26 Jan.: **rev1 uploaded (wrongly as d1)**27 Jan.: More comments + **rev2 uploaded (wrongly as d2)**29 Jan.: More comments + **rev3 uploaded (first wrongly as d3, then corrected as rev3)**31 Jan.: More comments + **rev4 uploaded**1 Feb.: More comments + **rev5 uploaded****Conclusion: Rev5 approved – take out new tdoc# in 3GU for the final version** (and make editorial cleanup – remove [Draft] and rev.marks**)** | Ericsson LM, China Mobile Com. Corporation, Nokia, Nokia Shanghai Bell | Onnegren Jan |
| [**S5-211192**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211192.zip) | Reply LS on Enhancement of RAN Slicing(reallocate 5.3->6.1)CC 25 Jan.: Merge into 1094rev1**Conclusion: Merged in revision of 1094** | China Mobile Com. Corporation | Xiaowen Sun |
| [**S5-211308**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211308.zip) | Response to LS Reply on Enhancement of RAN SlicingCC 25 Jan.: Merge into 1094rev1**Conclusion: Merged in revision of 1094** | Nokia, Nokia Shanghai Bell | Jing Ping |

**Leaders recommendation for (S5-211021/S5-211094/S5-211192/S5-211308):** **discuss in Monday 25 January Conf call.**

25 Jan Conf call (notes by Zou Lan):

E: agree to merge the 3 LS. E and N LS are similar.

N: agree with E’s opinion.

CMCC: agree with merge the LS.

HW: have detailed comments for the 3 LS.

C: use 1094 as baseline for further update of reply LS.

**OAM GROUP #2 (S5-211016/S5-211028) relation between EDGEAPP and ETSI MEC architectures (2)**

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| [**S5-211016**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211016.zip) | LS reply to 3GPP SA5 on the relation between EDGEAPP and ETSI MEC architectures**Conclusion: Postponed** | ETSI ISG MEC | Mirko Cano Soveri |
| [**S5-211028**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211028.zip) | LS to SA5 on Relation between 3GPP EDGEAPP and ETSI MEC architectures**Conclusion: Postponed** | S6-202355 | Mirko Cano Soveri |

**Leaders recommendation for (S5-211016/S5-211028): no related reply LS submitted, need to consider whether reply is needed.** **Decision to be made in Monday 25 January Conf call.**

26 Jan. CC:

H: Have a related tdoc

I: Still see some open issues, which bring some difficulties for management. Need to discuss what should be the focus for 3GPP.

I: The answer from SA6 is unclear. We need to discuss in SA5 if we have the same understanding, and we may need to reply with some more questions.

E: It seems that SA6 does not intend any normative work to align with ETSI MEC. Based on the SA6 reply, we don’t need to consider the alignment between SA6 and ETCI MEC architecture until they have some concrete agreement to align. Don’t think a reply is needed.

S: Agree with Ericsson, no reply is needed. We got the best answer we could get from SA6. So SA5 don’t need to align with ETCI MEC in Rel-17.

I: Agree at least for the first question from SA6. But what about the second?

S: Up to us to decide what we use as base for management.

I: Still want to discuss this a bit more.

Conclusion: Keep open, continue discussion in the SA6 reply thread (1028).

**OAM GROUP #3 (S5-211023/S5-211031) LS on network data analysis energy saving (2)**

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| [**S5-211023**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211023.zip) | Reply LS to SA5 on network data analysis energy saving**Conclusion: Replied to (in 1031)** | S2-2009349 | Mirko Cano Soveri |
| [**S5-211031**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211031.zip) | Reply LS on network data analysis energy saving26 Jan CC:Reply LS proposed by Orange. Take comments in this thread and plan to send to SA2 after this SA5 meeting.**Conclusion: Approved with no comments received - but take out new tdoc# in 3GU to remove “[DRAFT” in the header.** | Orange | Jean Michel Cornily |

**Leaders recommendation for (S5-211023/S5-211031): discuss in Monday 25 January Conf call.**

**OAM GROUP #4 (S5-211024/S5-211056/S5-211025) OAM that supports RAT/frequency data and cell energySaving state (3)**

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| [**S5-211024**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211024.zip) | LS to SA5 on OAM that supports RAT/frequency data**Conclusion: Replied to (in rev. of 1056)** | S2-2009379 | Mirko Cano Soveri |
| [**S5-211056**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211056.zip) | Reply LS on OAM that supports RAT/frequency data(reallocate 5.3->6.1)26 Jan CC (see below): New LS is proposed in 1155 (see Zou Lan’s chair notes1 Feb.: **Rev1** uploaded.2 Feb.: More comments (from chair)3 Feb.: More comments (China Telecom asking to remove last sentence of Description to align with S5-211154).**Conclusion: Email approval** | China Telecomunication Corp. | Jiayifan Liu |
| [**S5-211025**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211025.zip) | LS Response to SA5 on providing cell energySaving state information to NWDAF26 Jan. CC discussion – see notes below (China Telecom doesn’t think we need to reply to 1025; instead we could send a new LS which is proposed in 1155.**Conclusion: Noted** | S2-2009386 | Mirko Cano Soveri |

**Leaders recommendation for (S5-211024/S5-211056/S5-211025): discuss the tdoc in Monday 25 January Conf call.**

26 Jan CC:

China Telecom: The content of this LS reply in 1056 could be aligned with the conclusion of discussion paper (1154) that we provided to this meeting.

China Telecom: Don’t think we need to reply to 1025; instead we could send a **new LS which is proposed in 1155 (see Zou Lan’s chair notes).**

H: We think both LSs are related to the same problem, ie how to expose mgmt data to NWDAF. We don’t think SA5 should exposed generic MnS to NWDAF, because NWDAF does not know how to read our detailed model information. We can try to provide some mechanism to fulfil SA2’ request, but for now we don’t have that. We can try to do some rewording to cover this in the reply 1056.

E: Wrt the 1024 LS, we can’t provide the RAT/frequency. We probably need to ask what they are trying to calculate instead of just exposing the raw frequency data.

I: On 1056, OAM cannot provide information on RAT/frequency data per UE. But second paragraph of 1056 is not really relevant.

I: On 1155, I agree with Huawei, we cannot expose anything to NWDAF.

**Conclusion: Continue with comments in the threads for 1056 and 1155 (see Zou Lan’s chair notes).**

**OAM GROUP #5 (S5-211019/S5-211026) LS on NR QoE (2)**

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| [**S5-211019**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211019.zip) | LS cc SA5 on NR QoE progress in RAN3**Conclusion: Noted** | R3-207120 | Mirko Cano Soveri |
| [**S5-211026**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211026.zip) | LS Reply ccSA5 on New service type of NR QoE**Conclusion: Noted** | S4-201576 | Mirko Cano Soveri |

**Leaders recommendation for (S5-211019/S5-211026): no related reply LS submitted, need to consider whether reply is needed.** **Decision to be made in Monday 25 January Conf call.**

26 Jan CC:

No replies needed. We can note 1019 and 1026.

**OAM GROUP #6 (S5-211088/S5-211089) useful document (2)**

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| [**S5-211088**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211088.zip) | Collection of useful endorsed document and external communication documents**Conclusion: Noted** | Huawei Technologies (Korea) | Lan Zou |
| [**S5-211089**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211089.zip) | List of Approved DraftCR28 Jan. CC:The chair team informed that this document contains a request for an important action for all DraftCR rapporteurs: “**Need to check whether TS baseline is changed and whether alignment of the DraftCR with the latest TS baseline is needed.**”. This check and update of each DraftCR (if relevant) needs to be done in a new tdoc# by the end of Friday the 29th, and then also any “Input to DraftCR” which are affected by updated DraftCRs need to be updated in a new tdoc# by the end of Monday 1 Feb. Then we can have stable and correct DraftCRs coming out of this meeting which can be updated again by email approval to include all approved “input to draftCR”, creating a new baseline DraftCR.**AP rapporteurs: to inform Thomas and Zou Lan when this check+potential update has been made (latest by end of 29 Jan.), and to inform them about the latest draftCR new tdoc number if an updated draftCR is needed.****1 Feb.: AP above completed, rev1 uploaded.****3 Feb.: More updates in rev2 uploaded****Conclusion: Email approval with new tdoc# S5-211461 (to include all approved Inputs to the DraftCRs from this meeting when concluded)** | SA5 Vice chair (Huawei) | Lan Zou |

**OAM GROUP #7 (S5-211030/S5-211191/S5-211349) O-RAN-3GPP cooperation (2)**

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| [**S5-211030**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211030.zip) | LS on O-RAN – 3GPP Cooperation on Management Services**Conclusion: Postponed** | O-RAN | Mirko Cano Soveri |
| [**S5-211191**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211191.zip) | YANG NRM for Network Slicing (Rel-17 Cat-A CR, mirror to 1349)(reallocate 6.2->6.1)26 Jan: First set of comments27 Jan.: More comments (MCC)29 Jan.: More comments (author informs the following:“I just uploaded two CR documents to the 135e inbox containing YANG modules for the Network Slice NRM. One cat-F CR for Rel-16 and one cat-A CR for Rel-17.**+ S5-211349d1 Rel-16 CR 28.541 YANG NRM for Network Slicing****+ S5-211191rev1 Rel-17 CR 28.541 YANG NRM for Network Slicing”**1 Feb.: More comments**2 Feb.: More comments (Samsung objects to a Rel-16 CR, Docomo has new technical comments).****Conclusion: Not pursued** | Cisco Systems Belgium | Jan Lindblad |

**Leaders recommendation for (S5-211030/S5-211191): discuss the tdoc in Monday 25 January Conf call.**

O-RAN WG1 asks 3GPP SA5 to inform about plans to add the YANG definitions for network slicing to the TS 28.541.

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| **S5-211349** | YANG NRM for Network Slicing (Rel-16 Cat-F CR)(reallocate 6.2->6.1)29 Jan.: **d1 uploaded** (see info under 1191 above)1 Feb.: More comments**2 Feb.: More comments (Samsung objects to a Rel-16 CR, Docomo has new technical comments).****Conclusion: Not pursued** | Cisco Systems Belgium | Jan Lindblad |

26 Jan CC:

Chair: The question is whether a Rel-16 CR could be created with a Rel-17 mirror, as was said to be agreed at the last meeting.

MCC: There is JSON and XML, but not Yang for this model. The reasons for change need to be explained much better, also referring to the LS in 1030, if this should be agreeable as a Cat-F CR under eNRM.

S: I sent my comments on the reflector. Difficult to justify as a Rel-16 Cat-F CR. The justification needs to prove that it needs to be an error correction. For Rel-17 we also have to mention what is missing in the O1 requirement that cannot be fulfilled without slice NRM.

DT: What to do with the reply LS?

Chair: We could start working on a draft reply LS which can be sent if a CR is agreed by SA5.

N: Nokia thought we agreed on which CRs should be created and for which release(s), at the last meeting. On the LS, agree with the chair’s position, we can send an LS when we have something to share. On the concrete CR in 1191, there are some gaps to be fixed before it can be agreed.

S: We just want the cover page to justify correctly if this can be a Cat-F CR, as also requested at the last meeting.

N: We are not under pressure to do it at this meeting, as we have one more meeting before SA.

Conclusion: Start working on a Rel-16 CR + Rel-17 mirror. Get a new tdoc# from MCC.

**OAM GROUP #8 (S5-211018/S5-211051) user consent for trace reporting (2)**

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| [**S5-211018**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211018.zip) | Reply LS to SA5 on the user consent for trace reporting25 Jan: First set of comments (Ericsson proposes to note it)**Conclusion: Noted** | R2-2010894 | Mirko Cano Soveri |
| [**S5-211051**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211051.zip) | Discussion on user consent for RLF and CEF report(reallocate 6.4.3->6.1)25 Jan: First set of comments**2 Feb.: More comments (objection from Ericsson)****Conclusion: Noted** | Apple, Intel, Qualcomm Incorporated | Zhibin Wu |

**Leaders recommendation for (S5-211018): no related reply LS submitted, need to consider whether reply is needed.** **Decision to be made in Monday 25 January Conf call.**

RAN2 would like to clarify the SA5 LS’ original intention.

26 Jan CC:

E: Have sent comments on 1051 to the thread already. Main comment – SA3 is the owner of the user consent. So there is no need to reply to RAN2 on this.

E: May be better to send an LS to SA3 to let them take the decision if a user consent for this type of reporting is needed.

I: This incoming reply was a reply to an LS from SA5.

Conclusion: Discussion to continue in the thread for 1051.

Updated thread title for the tdocs below: [SA5#135e], 6.1-OAM, S5-211020/S5-211350 Reply LS to SA5 on QoS Monitoring for URLLC

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| [**S5-211020**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211020.zip) | Reply LS to SA5 on QoS Monitoring for URLLC**Conclusion: Replied in revision of 1350** | R3-207177 | Mirko Cano Soveri |

**Leaders recommendation for (S5-211020): no related reply LS submitted, it’s RAN3 reply LS to SA5. Suggest to note S5-211020. Decision to be made in Monday 25 January Conf call.**

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| **S5-211350** | Reply LS to RAN3 on QoS Monitoring for URLLC27 Jan.: **d1 uploaded** **Conclusion: d1 approved – please upload final version as S5-211350** | Intel | Yizhi Yao |

26 Jan CC:

I: I have sent comments to this thread. SA5 has also defined new measurements about distribution of delays, not only average. We probably should send a reply to inform RAN3 about this.

Conclusion: Intel/Yizhi to draft a reply LS.

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| [**S5-211027**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211027.zip) | LS reply to SA5 on QoE Measurement Collection**Conclusion: Noted** | S4-201600 | Mirko Cano Soveri |

**Leaders recommendation for (S5-211027): no related reply LS submitted, it’s SA4 reply LS to SA5. Suggest to note S5-211027. Decision to be made in Monday 25 January Conf call.**

SA4 thus decided to not implement SA5 requested functionality at the application level

26 Jan CC:

Conclusion: Noted

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| **S5-211347** | LS/r on work progress on M.resm-AI "Requirements for energy saving management of 5G RAN system with AI" (reply to 3GPP SA5-LS1225)**Conclusion: Postponed** | ITU-T | Mirko Cano Soveri |

**Leaders recommendation for S5-211347: Reply LS to SA5, discuss the tdoc in Monday 25 January Conf call.**

26 Jan CC:

Conclusion: Postponed

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| **S5-211346** | LS/r on methodology harmonization and REST-based network management framework (reply to 3GPP TSG SA5-S5-204647)**Conclusion: Postponed** | ITU-T | Mirko Cano Soveri |

**Leaders recommendation for S5-211346: Reply LS to SA5, discuss the tdoc in Monday 25 January Conf call.**

26 Jan CC:

Conclusion: Postponed

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| **S5-211345** | LS/o ccSA5 on Establishment of new Focus Group on Autonomous Networks**Conclusion: Noted** | ITU-T | Mirko Cano Soveri |

**Leaders recommendation for S5-211345: discuss the tdoc in Monday 25 January Conf call.**

26 Jan CC:

Conclusion: Noted.

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| [**S5-211036**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211036.zip) | Discussion on issues found in TS 28.531 and TS 28.54126 Jan: First set of comments27 Jan.: More comments**29 Jan. CC:****Orange presented the current status with all comments in the overview table.****N:** suggest to keep and fix existing create/terminate use cases, and add other allocation/deallocation use cases in 5.1H: The clause 5.1.1 in 28.531 has the title “Network slice instance creation” but the UC inside is really about allocation. So maybe it’s enough to rename the clause title?O: Also what is proposed in the DPI: Appreciate this paper. We need to decide how to document the use cases. We need UC for network slice creation. We need to make the Stage 1/2/3 definitions for slicing consistent. We need a dedicated work on this issue, maybe a new WI.N: I like the contribution and will try to work together with Orange to get it ready.N: The semantics of the result of the allocate operation is undefined.N: Don’t agree with Intel that the provisioning does not work.O: On Observation 2, we think that the current solution is a new use of the ITU-T X.731 standard regarding the Adm. state and its transitions, which is questionable. The proposal for modification is still under discussion, e.g. no support from Ericsson so far.E: We earlier said “Not supportive, agree to a need for active/inactive states for NSI/NSSI and revisit the need for administrative state. But activation status is not enough as NSI/NSSI states, (see Ericsson S5-211284 contribution).” but we do support working in this direction, it’s just that the current proposal is not enough.I: We need to document how slice provisioning works, in a way that everybody inside and outside SA5 can understand.S: Is it a mandate in SA5 to go with X.731 when managing states?N: It’s a problem that we don’t use the adm. state consistently in SA5. In slicing there is a complication, as you don’t create anything physical when you create a slice. We need to describe how we expect vendors’ capabilities when dealing with multiple slices. On observation 2, we need to clarify exactly what will be the result of allocate/deallocation operations.H: Observation 2 issue is not only for slice NRM. Also for closed loop IOC we have similar behavior. So we need a common way how to handle the adm. state.H: Re: results of allocate/deallocate operation, it is described in 28.531 and there is also a tdoc 1090 to this meeting to enhance that description.N: If we want to use the adm.state, I prefer we use the same semantics as in ITU-T. There are also other states like usage state, that are related. So we need to be very careful when introducing new states.O: On observation 3, this seems to be wrong behaviour that cannot be executed. Operational state is not writeable. The comments so far are quite supportive, although Samsung has some questions.S: Whatever the proposal will be, we will have a look at it, our questions are just minor.O: There is no concrete proposal for a change right now; everything has to be carefully studied and respecified. I would like to collect more comments to have a common vision for what we should do.1 Feb.: More comments – and **suggestion from Orange: 1. Note S5-211036, 2. Add 3 action items to the list of OA&M SWG action lists (owner: SA5 OA&M SWG) to Address Observations #1 #2 and #3 from S5-211036**.**Conclusion: Noted** | Orange | Jean Michel Cornily |

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| [**S5-211078**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211078.zip) | Rel-17 CR TS 32.160 Update on template for requirement specifications26 Jan: First set of comments (MCC)27 Jan.: More comments28 Jan.: Rev2 uploaded28 Jan.: More comments1 Feb.: More comments **(Ericsson objects)****2 Feb.:** More comments (reply to Ericsson comments, but no revised contribution).**Conclusion: Noted** | SA5 Vice chair (Huawei) | Lan Zou |

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| [**S5-211081**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211081.zip) | Rel-17 time plan proposal for OAM1 Feb.: First set of comments2 Feb.: More comments**Conclusion: Noted** (it was provided for presentation/information) | SA5 Vice chair (Huawei) | Lan Zou |

**Leaders recommendation for (S5-211081): Still under discussion in leaders’ team. Any early feedback is welcome.**

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| S5-211004 | OAM&P action list26 Jan.: d1 uploaded2 Feb.: d2 uploaded3 Feb.: d3 uploaded**Conclusion: d3 Noted – should have been rev3 – please take out new tdoc# in 3GU for the final version** | WG Vice Chair | Lan Zou |

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| S5-211005 | agenda\_with\_Tdocs\_sequence\_proposal\_OAM25 Jan.: rev1 uploaded26 Jan.: rev2 uploaded**Conclusion: Rev2 Noted – take out new tdoc# in 3GU for the final version** | WG Vice Chair | Lan Zou |

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| S5-211006 | OAM Exec Report**Conclusion: Noted** | WG Vice Chair | Lan Zou |

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| S5-211007 | OAM Chair notes and conclusions**Conclusion: Noted** | WG Chair | Thomas Tovinger |

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| S5-211012 | List of DraftCR input and outputWithdrawn | WG Chair | Thomas Tovinger |

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| S5-211348 | TD forge process proposal for yaml code in 135e meeting**Discussion in conf. calls: See notes below.**26 Jan.: **d1 uploaded**27 Jan.: More comments + **d2** **uploaded**28 Jan.: Thread title updated2 Feb.: **d3 uploaded**3 Feb.: **d4 uploaded** (after the CC on 3 Feb.)**Conclusion: d4 endorsed – please upload final version as S5-211348** | Nokia | Jing Ping |

**26 Jan. call:** S5-211348 TD forge process proposal for yaml code in 135e meeting was presented.

**27 Jan. call:** S5-211348 TD forge process proposal for yaml code in 135e meeting – Discussion:

 E: Most of the errors originate from cope of the code from the TS, and manual merge by MCC. One additional step at least in Yang, is to correct editorial errors, and that is an additional step needed before putting it in Forge. I think process option 2 is the best one, but I think we need to move all code to Forge, out of the TSs for a long term solution.

 MCC: Nobody disagrees with having the source in GitLab (making it the official version, but it can be copied to the TS), but this needs to be discussed with CT before we can do it. If we can do that, MCC doesn’t object.

 VC: Do we know how CT handles this situation. It should be likely that they also got this problem. So it’s better we talk to them asap about this.

 E: How to follow up this request for a long term solution?

 Chair: We can create an AP for the leaders to make a proposal for this, to be discussed with CT and possibly also be sent to the SA plenary.

 N: As we seem to prefer having Forge as primary source, maybe we should choose option 3 instead?

E: A bit concerned about the big work for the code moderator to do that.

N: It may not be too difficult as we propose that all code is copied into the TS “in one shot” replacing the complete Annex.

N: We need to maintain the code in Forge, and make sure the Forge validation passes. Then it’s the question how we copy it into the TS.

N: Can we have a link to the Forge code in the TS as a replacement of the code? What is the value of keeping the code in the TS?

N: Let’s even try to propose removing the code completely from the TS; as a proposal to SA?

Conclusion: Nokia to update the paper with the new proposal to go for option 3, asking for endorsement at this meeting.

**1 Feb. call on S5-211348:**

Chair: Is it ok for MCC to do option 3?

MCC: Yes, we could live with it as a short term solution. But we need to generate a “mega CR” to next meeting, so we can’t agree all individual CRs at this meeting.

E: If all YAML and YANG CR authors believe they have a correct merge in Forge, this could work (creating a Mega CR from Forge).

N: Nokia did not propose a mega CR in option 3. The merge of individual CRs will happen in Forge. What we agree is individual CRs. Each such CR needs a corresponding branch in Forge. The clean code can be copied by Mirko to the Word annex, after SA.

E: The current process has a statement that a mega CR should be created, so that needs to be updated then. We probably need some calls before next meeting to work out more details on this proposal and the process.

MCC: We need to consider potential legal issues as well; it must be possible to track who did what.

N: That is possible in Forge.

N: We need some update of the proposal, option 3, after this discussion. I also propose a call tomorrow to discuss it.

Chair: OK, will call for a meeting 14.00-16.00.

**2 Feb. Conf. call on S5-211348 with leaders and Forge experts:**

After a long discussion, the following was agreed to be recommended to SA5/OAM:

- We choose main option 3 in 1348d3.

- Jing will update 1348 to d4 including some clarifications.

- Jing will prepare TS baseline correction CRs within one day (to align the TS baseline with the corrected Forge baseline), for 28.541 (R16/R17), 28.532 R16, 28.623 R16, and JanG is kindly asked to do that also for 28.536. These CRs should go for quick email approval after SA5#135e. (\*\*)

- Balazs will merge the YANG corrections (Rel17-SA90-agreed-fix-compilation-error, Rel16-SA90-agreed-fix-compilation-error) into the same branches in Forge.

- Technical CRs to this meeting need to be Conditionally agreed , as they are based on the wrong baseline (\*). Then they need to be resubmitted to next meeting. At that meeting we have two choices:

 a) The technical CRs are delayed until after SA#91 when we have corrected TS baseline versions.

 b) The technical CRs can be included in the baseline correction CRs sent to SA as a “Mega CR” (per TS) replacing all affected Stage 3 annexes completely with new text, taken from the correct Forge baseline.

**- It is crucial that all CR authors are aware that all Stage 3 code must be valid and up to date in Forge,** on top of the corrected baseline, before they can be included in the “Mega CR”. this needs to be done before SA5#136e.

(\*) Related Stage 2 CRs should also be Conditionally agreed and resubmitted to next meeting, so that they follow the Stage 3 and we can decide what to do with them at SA5#136e in case we decide to delay the Stage 3 CRs.

(\*\*) The Baseline correcting CRs are the following tdocs:

S5-211341 Rel-16 CR fix compilation error in 28541

S5-211342 Rel-17 CR fix compilation error in 28541

S5-211343 Rel-16 CR fix compilation error in 28623

S5-211344 Rel-16 CR fix compilation error in 28532

[S5-211060](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211060.zip) Rel-16 CR 28.536 Clarify modelling of AssuranceGoal

[S5-211061](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211061.zip) Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM

**Closing plenary questions on the above:**

Matrixx: What about the relation to the CT comments, and to CH?

Chair: No relation so far; this is a short term solution to fix issues in OAM TSs

E: What about DraftCRs?

Chair: Good question, we need to consider that at next meeting.

N: Appreciate Ericsson’s comment; we forgot about the DraftCRs. Nokia doesn’t see Forge and DraftCR processes as contradicting each other.

S: Will the “Input to DraftCR” which are agreed, concluded as Approved?

Chair: Yes.

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| **6.2** | **New OAM&P Work Item proposals** |  | **Total 8 tdocs/ 5 email threads (3 groups+2 tdocs)** |  |

### 6.2 New WID email thread TITLE list (4)

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| [SA5#135e], 6.2-New WID, GROUP #1 (S5-211212/S5-211213) enhancement of service based management architecture |
| [SA5#135e], 6.2- New WID, GROUP #2 (S5-211319/S5-211320) Generic Plug and Connect |
| [SA5#135e], 6.2- New WID, GROUP #3 (S5-211332/S5-211338) CI-CD support for network slicing |
| [SA5#135e], 6.2- New WID, S5-211105 New WID Enhancements of Management Data Analytics Service |
| [SA5#135e], 6.2- New WID, S5-211205 New SID on management aspects of network slice capability exposure |

**New WID GROUP #1 (S5-211212/S5-211213) enhancement of service based management architecture (2)**

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| [**S5-211212**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211212.zip) | Discussion on enhancement of service based management architecture26 Jan CC:E: Good to start this, but it is just a scratch on the surface. There are many more things to consider, e.g. what to do with the old IRPs. So probably good to start with a study item first, to investigate all questions.H: We can consider this, but we tried to start with something concrete.E: We may need to answer the question “what to do with the IRPs in 5G” before we know what to reuse from 32.101.N: Tend to agree with Ericsson, the intention is good. But what is proposed here is puzzling to me. A normative reference point added to 28.533 seems what is proposed, which is strange. It is also defining functions instead of services.27 Jan. CC:H: We need some more offline discussions, but we can take some more comments now.E: Is this including exposure to verticals as a machine-machine interface?H: This information is not included right now. We can check and consider it.27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**1 Feb.: More comments (Ericsson requests some clarifications)2 Feb.: More comments + **rev2 uploaded****Conclusion: Noted** | Huawei, China Telecom, China Unicom, China Mobile | Lan Zou |
| [**S5-211213**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211213.zip) | New WID on enhancement of service based management architecture26 Jan: First set of comments27 Jan. CC:DT: Statements about ZSM and TMF architectures are relevant, but there may be more, so why only choose these? Reply: We can consider that.N: The only objective of this seems to be to update Informative annexes of 28.533.28 Jan.: More comments + **rev1 + rev2 uploaded**1 Feb.: More comments (Ericsson requests some clarifications)2 Feb.: More comments + **rev3 uploaded**2 Feb.: More comments: DT has some more requests for clarifications.**Conclusion: Email approval** | Huawei, China Telecom, China Unicom, China Mobile | Lan Zou |

**New WID GROUP #2 (S5-211319/S5-211320) Generic Plug and Connect (2)**

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| [**S5-211319**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211319.zip) | Generic Plug and connect – Discussion25 Jan: First set of comments27 Jan. CC:H: Not sure if we can make this be generic for all future releases.E: This is our intention, to do it as far as possible.H: What about deprecating some specs?E: Not completely sure what we should do, and we welcome other companies’ comments. But this is our current proposal, what we believe should work best.H: Maybe we should keep the old TSs and apply for legacy systems, and have new TSs for 5G and onwards, one set of TSs for each generation 5G/6G etc.E: We could reuse some technical contents of deprecated TSs by copying that to the new specs, would that be a good idea?E: The intention is not to cause problems for legacy systems.I: Will this be applied both to VNF and PNF?E: PNF only is intended.I: I think it’s better to cover VNF as well, if you want to have a future-proof solution.I: Will this only cover RAN NFs? I you want to make it generic, you also need to cover the CN parts.E: The main problems today with plug and play are related to secure networks.27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments**Conclusion: Noted** | Ericsson France S.A.S | Per Elmdahl |
| [**S5-211320**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211320.zip) | Generic Plug and Connect25 Jan: First set of comments27 Jan. CC: See 1319 above.27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments1 Feb.: More comments + **rev2 + rev3 uploaded**1 Feb.: More comments (Seems ok for Orange)2 Feb.: More comments + **rev4 + rev5 uploaded (Huawei has one objection left on one sentence)****Conclusion: Email approval**  | Ericsson France S.A.S | Per Elmdahl |

**New WID GROUP #3 (S5-211332/S5-211338) CI-CD support for network slicing (2)**

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| [**S5-211332**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211332.zip) | New SID on CI-CD support for netowrk slicing25 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments (MCC)29 Jan.: r1 uploaded - **CMCC added as co-rapp**31 Jan. More comments (from chair on 2 rapp.)1 Feb.: More comments + **r2 uploaded** (and Alibaba added as supporting company)**Conclusion: r2 agreed – take out new tdoc# in 3GU for the final version** |  | Lenovo Mobile Com. Technology | Ishan Vaishnavi |
| [**S5-211338**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211338.zip) | Discussion on the need for CI-CD spec27 Jan. CC:DT: Do you plan to go deeper than in ZSM with this in SA5?L: Focus in SA5 is on multiple domain integration, and relation to what is defined in SA2.N: You want to impact what SA5 is doing, not only how vendors handle their SW, right? Can you give concrete example for a possible outcome?L: What we could influence is that there is a notification mechanism to the operator about a new release in 3GPP. Based on that you can map the operator release model to a vendor release model. The interaction between multiple vendors and an operator is something we could influence. If the study would show that it is not feasible, then we don’t intend to move forward with a normative WID.H: Share similar comments as Nokia. Seems you want to make some SW inventory. Should this apply to all 3GPP NF, or what is the scope of this study?L: We can discuss this during the study. But it could be some generic mechanism. Re: SW inventory, that is right.H: Do you want to differentiate vertical and horizontal approach?L: We need to investigate that, I think they can be the same but not sure.E: Agree with previous comments from Nokia and Huawei. For inventory, we already have inventory specs, do you want to check what can be reused from then? And on the notification mechanism to the operator, what do you intend to specify for that and where?L: For the 1st question, It could fit in the 5G architecture. For the second question, at least 50% I believe could be automated.I: Do you think the CI-CD procedure can fit in some existing mechanism?L: Good question, we need to think about it. Probably we need to define a new MnS, but not sure.**Conclusion: Noted** |  | Lenovo Mobile Com. Technology | Ishan Vaishnavi |

**The following tdocs will be treated as individual email thread (2)**

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| [**S5-211105**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211105.zip) | New WID Enhancements of Management Data Analytics Service25 Jan: First set of comments26 Jan.: More comments + **rev1 uploaded**27 Jan.: More comments**27 Jan CC:**H: On the Objective 1st bullet, better if you can elaborate which relation you mean. Seems difficult to investigate all NFs.I: Should only be NWDAF and gNB so far, captured in the TR. But we would like to keep it a bit open if we find more NFs which may be relevant.H: Please clarify the last bullet “Analytics model aspects, e.g., ML model training for MDA”.I: Will work on that.H: Whether new requirements are needed should also be addressed.I: For data, we don’t specify requirements, but we may need use cases.N: I provided some comments on the list, but a main comment is about section 4: Are the first two main bullets really needed? Isn’t it enough that we studied that?I: Agree maybe too strongly described here. Maybe we can change “specify” to “describe”.N: Other main comment: In the 4th bullet it is getting into a solution specific text. Do we need to go into so much detail?I: We want to restrict the contributions to this WI not to go too far from the intended scope.DT: I sent some comments to the thread, but not all of them were answered. E.g. management loop what is that, and will you also consider closed loop? Are analytics models included.28 Jan.: More comments (MCC)29 Jan: More comments + **Rev2 uploaded**1 Feb.: More comments **(Ericsson objects)****1 Feb.: Rev3 uploaded**2 Feb.: More comments **(objection from Ericsson and Nokia; Intel asked to note it)****Conclusion: Noted** | Intel Finland Oy, NEC | Yizhi Yao |

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| [**S5-211205**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211205.zip) | New SID on management aspects of network slice capability exposure25 Jan: First set of comments26 Jan.: More comments + **rev1 uploaded** + more comments27 Jan.: More comments + **rev2 + rev3 uploaded**28 Jan.: More comments + **rev4 uploaded**29 Jan.: More comments + **rev5 uploaded****1 Feb. OAM CC:**Alibaba summarised the status of comments generating rev5.DT: Sent some comments already, but didn’t see any response to them so far in the thread, however most of them are covered in rev4.DT: Should the study cover both message format and the information carried?A: Yes, I can clarify that.DT: What do you want to do with “modelled by NetworkSlice and NetworkSliceSubnet”, do you intend to propose any changes?A: Whether the change of the ServiceProfile shall lead to a change of the NSI should be studied. I can try to clarify that.N: Some questions raised in the email were answered but not all. First one is about customized ServiceProfile. What does it mean?A: Agree that it could sound a bit confusing. The OSS could receive requirements from the customers, but I am trying to work out a new term for customized ServiceProfile and the interface that will be studied in the SID.N: This SID proposal is orthogonal to what we have defined so far. An MnS defined in 28.533 realizes certain capability. Items in the NRM also define certain capabilities. There is also a capability of the slice, as defined in SA2, but that is not management terms. For the customized ServiceProfile there is some confusion between GSMA and SA5 terms. Further, I don’t understand what is the relation to the WID on capability exposure. I don’t see the need for this SID based on what we have in SA5 right now.Chair: Discussion to continue in the thread.1 Feb.: More comments2 Feb.: More comments + **rev6 + rev7 uploaded**. Ericsson still objects, but it is not clear if rev7 has addressed the two last comments from Ericsson leading to the objection being kept.**Closing plenary discussion:**Matrixx expressed concerns about this SID, related to need to coordinate this with Charging. The SID “Network slice Charging phase 2” in Charging is already covering these aspects, so it is overlapping and needs to be coordinated.Alibaba: This comment comes after the last comment deadline, and there is nothing related to Charging in this SID.Intel: I would propose to remove the relation to BSS from this SID.**Conclusion: Email approval (focus on clarification of NOTE3 in Objective)** | Alibaba Group | Xiaobo Yu |

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| **6.3** | **OAM&P Maintenance and Rel-16 small Enhancements**  |  | **Total 44 tdocs/ 21 email threads (12 groups+ 9 tdocs)** |

### 6.3 MAINT email thread TITLE list (21):

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| **TS 28.541** |
| [SA5#135e], 6.3-MAINT, GROUP#1 (S5-211038/S5-211039) Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction |
| [SA5#135e], 6.3-MAINT, GROUP#2 (S5-211110/S5-211112) Correction on Dynamic5QISet IOC based on LS reply from SA2 |
| [SA5#135e], 6.3-MAINT, GROUP#3 (S5-211091/S5-211092) Correction of ServiceProfile attributes |
| [SA5#135e], 6.3-MAINT, GROUP#4 (S5-211310/S5-211311) fix containment relationship for EP\_Transport IOC |
| [SA5#135e], 6.3-MAINT, GROUP#5 (S5-211131/S5-211132/S5-211133/S5-211216/S5-211217/S5-211218/S5-211219) Correction on TS 28.541 |
| [SA5#135e], 6.3-MAINT, S5-211352/S5-211353 Correct YANG errors |
| **TS 28.531** |
| [SA5#135e], 6.3-MAINT, S5-211048 Rel-16 CR TS 28.531 Correction of URI of Resource |
| [SA5#135e], 6.3-MAINT, S5-211090 Rel-16 CR 28.531 Correction of NSI and NSSI Operations |
| **TS 28.533** |
| [SA5#135e], 6.3-MAINT, GROUP#6(S5-211058/S5-211059) Fix errors in Exposure Governance description |
| **TS 28.536** |
| [SA5#135e], 6.3-MAINT, GROUP#7 (S5-211057/S5-211060/S5-211061) COSLA NRM update |
| [SA5#135e], 6.3-MAINT, GROUP#8 (S5-211331/S5-211337) update to 28.536 |
| **TS 28.537** |
| [SA5#135e], 6.3-MAINT, S5-211300 Rel-17 Draft CR 28.537 Add requirements for File Management |
| **TS 28.622&TS 28.623&TS28.532** |
| [SA5#135e], 6.3-MAINT, GROUP#9 (S5-211248/S5-211250/S5-211251) Replace legacy IRPAgent with MnsAgent |
| [SA5#135e], 6.3-MAINT, S5-211351 Rel-16 CR 28.623 Correcting YANG errors |
| **TS 28.530** |
| [SA5#135e], 6.3-MAINT, GROUP#10 (S5-211312/S5-211313) cleanup concepts of network slice business model |
| **TS 28.535** |
| [SA5#135e], 6.3-MAINT, GROUP#11 (S5-211327/S5-211328/S5-211330 S5-211329) communication service assurance stage 1 and stage 2 alignment |
| [SA5#135e], 6.3-MAINT, S5-211333 Rel 16 CR TS 28.535 Clarify intelligence in clause 4 |
| **TS 28.532** |
| [SA5#135e], 6.3-MAINT, GROUP#12 (S5-211242/S5-211246/S5-211247) Correct definitions for the File MnS |
| **TS 28.310** |
| [SA5#135e], 6.3-MAINT, S5-211041 Rel-16 CR TS 28.310 Introducing the ES probing procedure |
| **TS 32.422** |
| [SA5#135e], 6.3-MAINT, S5-211077/S5-211083 Add new clause for URI |
| **TS 32.423** |
| [SA5#135e], 6.3-MAINT, S5-211079 Correct trace record information for immediate MDT measurement |
| **TS 28.545** |
| [SA5#135e], 6.3-MAINT, S5-211289 Rel-16 CR 28.545 Add missing Alarm Requirements and Use Cases |
| **Discussion paper** |
| [SA5#135e], 6.3-MAINT, S5-211336 Discussion paper on state management |

#### TS 28.541:

**MAINT GROUP#1 (S5-211038/S5-211039) Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction (2)**

**Coordinator: Ericsson (Gang Li)**

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| [**S5-211038**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211038.zip) | Rel-16 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction25 Jan: First set of comments (MCC)26 Jan.: More comments27 Jan.: More comments **(objection from Huawei)**2 Feb.: More comments + **rev1 uploaded (Huawei maintains the objection)****2 Feb.: More comments (Ericsson and Orange claims that the objection is not valid;** chair asks Huawei to reconsider it due to this comment)**3 Feb.: The objection was discussed at the closing plenary. Unclear if the objection remains after the closing plenary.****4 Feb.: Huawei clarifies that the objection stays, and Ericsson agrees to withdraw the CR.****Conclusion: Not pursued** | Ericsson, Orange | Gang Li | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | EE\_5G, SON\_5G | F |
| [**S5-211039**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211039.zip) | Rel-17 CR TS 28.541 Remove cross domain from the description in definition for CPCIConfigurationFunction and CESManagementFunction25 Jan: First set of comments (MCC)26 Jan.: More comments27 Jan.: More comments **(objection from Huawei)**2 Feb.: More comments + **rev1 uploaded (Huawei maintains the objection)****2 Feb.: More comments (Ericsson and Orange claims that the objection is not valid;** chair asks Huawei to reconsider it due to this comment)**3 Feb.: The objection was discussed at the closing plenary. Unclear if the objection remains after the closing plenary.****4 Feb.: Huawei clarifies that the objection stays, and Ericsson agrees to withdraw the CR.****Conclusion: Not pursued** | Ericsson, Orange | Gang Li | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | EE\_5G, SON\_5G | A |

**MAINT GROUP#2 (S5-211110/S5-211112) Correction on Dynamic5QISet IOC based on LS reply from SA2 (2)**

**Coordinator: Intel (Yizhi Yao)**

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| [**S5-211110**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211110.zip) | Rel-16 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA225 Jan: First set of comments26-27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**1 Feb.: More comments2 Feb.: More comments (Intel and Huawei agreed to bring some improvement suggestions as a joint contribution to next meeting)**Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Intel Finland Oy | Yizhi Yao | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | [**eNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=820032) | F |
| [**S5-211112**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211112.zip) | Rel-17 CR 28.541 Correction on Dynamic5QISet IOC based on LS reply from SA225 Jan: First set of comments26-27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**1 Feb.: More comments2 Feb.: More comments (Intel and Huawei agreed to bring some improvement suggestions as a joint contribution to next meeting)**Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Intel Finland Oy | Yizhi Yao | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | [**eNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=820032) | A |

**MAINT GROUP#3 (S5-211091/S5-211092) Correction of ServiceProfile attributes (2)**

**Coordinator: Ericsson (Onnegren Jan)**

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| [**S5-211091**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211091.zip) | Rel-16 CR 28.541 Correction of ServiceProfile attributes25 Jan: First set of comments (MCC)1 Feb.: New tdoc S5-211362d1 created for revision of 1091 (updating WI code)**Conclusion: Not pursued** | Ericsson LM | Onnegren Jan | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |
| [**S5-211092**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211092.zip) | Rel-17 CR 28.541 Correction of ServiceProfile attributes25 Jan: First set of comments (MCC)1 Feb.: New tdoc S5-211363d1 created for revision of 1092 (updating WI code)**Conclusion: Not pursued** | Ericsson LM | Onnegren Jan | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | A |

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| **S5-211362 (new)** | Rel-16 CR 28.541 Correction of ServiceProfile attributes1 Feb.: New tdoc S5-211362d1 created for revision of 1091 (updating WI code)2 Feb.: More comments + **d2 uploaded (Forge link added)****Conclusion: d2 Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting) – please upload final version as S5-211362** | Ericsson LM | Onnegren Jan | **[Rel-16](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191)** | **[28.541](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400)** | 16.7.0 | **[eNRM](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050)** | F |
| **S5-211363 (new)** | Rel-17 CR 28.541 Correction of ServiceProfile attributes1 Feb.: New tdoc S5-211363d1 created for revision of 1092 (updating WI code)2 Feb.: More comments + **d2 uploaded (Forge link added)****Conclusion: d2 Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting) – please upload final version as S5-211363** | Ericsson LM | Onnegren Jan | **[Rel-17](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192)** | **[28.541](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400)** | 17.1.0 | **[eNRM](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050)** | A |

**MAINT GROUP#4 (S5-211310/S5-211311) fix containment relationship for EP\_Transport IOC (2)**

**Coordinator: Nokia (Jing Ping)**

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| [**S5-211310**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211310.zip) | Rel-16 fix containment relationship for EP\_Transport IOC28 Jan: First set of comments31 Jan: More comments2 Feb.: More comments + **rev1 + rev2 + rev3 uploaded****Conclusion: Rev3 Conditionally agreed - take out new tdoc# in 3GU for the final version** (Conditionally agreed due to the Stage 3 being based on an erroneous Forge/TS baseline as reported under S5-211348 – please resubmit/update to SA5#136eto be updated for correct baseline) | Nokia, Nokia Shanghai Bell | Jing Ping | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |
| [**S5-211311**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211311.zip) | Rel-17 fix containment relationship for EP\_Transport IOC28 Jan: First set of comments31 Jan: More comments2 Feb.: More comments + **rev1 + rev2 + rev3 uploaded****Conclusion: Rev3 Conditionally agreed - take out new tdoc# in 3GU for the final version** (Conditionally agreed due to the Stage 3 being based on an erroneous Forge/TS baseline as reported under S5-211348 – please resubmit/update to SA5#136eto be updated for correct baseline) | Nokia, Nokia Shanghai Bell | Jing Ping | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | A |

**MAINT GROUP#5 (S5-211131/S5-211132/S5-211133/S5-211216/S5-211217/S5-211218/S5-211219) Correction on TS 28.541 (7)**

**Coordinator: China Telecommunications (Xiumin Chen)**

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| [**S5-211131**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211131.zip) | Rel-15 CR TS 28.541 Correct the NF name in definition of EP\_NgU25 Jan: First set of comments26 Jan.: More comments 27 Jan.: More comments + **rev1 uploaded**31 Jan: More comments1 Feb.: More comments (but no objection)**Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | China Telecommunications, Huawei | Xiumin Chen | [**Rel-15**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=190) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 15.7.0 | [**NETSLICE-5GNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=780037) | F |
| [**S5-211132**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211132.zip) | Rel-16 CR TS 28.541 Correct the NF name in definition of EP\_NgU25 Jan: First set of comments26 Jan.: More comments27 Jan.: More comments + **rev1 uploaded**31 Jan: More comments1 Feb.: More comments (but no objection)**Conclusion: Rev1 Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting) – take out new tdoc# in 3GU for the final version** | China Telecommunications, Huawei | Xiumin Chen | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | [**NETSLICE-5GNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=780037) | A |
| [**S5-211133**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211133.zip) | Rel-17 CR TS 28.541 Correct the NF name in definition of EP\_NgU25 Jan: First set of comments26 Jan.: More comments27 Jan.: More comments + **rev1 uploaded**31 Jan: More comments1 Feb.: More comments (but no objection)**Conclusion: Rev1 Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting) – take out new tdoc# in 3GU for the final version** | China Telecommunications, Huawei | Xiumin Chen | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | [**NETSLICE-5GNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=780037) | A |
| [**S5-211216**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211216.zip) | Rel-16 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs**Conclusion: Agreed with no comments received** | Huawei | Ruiyue Xu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | [**eNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=820032) | F |
| [**S5-211217**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211217.zip) | Rel-17 CR TS 28.541 Add missing inheritance description information in the attribute definition for several IOCs**Conclusion: Agreed with no comments received** | Huawei | Ruiyue Xu | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | [**eNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=820032) | A |
| [**S5-211218**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211218.zip) | Rel-16 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM**Conclusion: Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting)** | Huawei | Ruiyue Xu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 16.7.0 | [**eNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=820032) | F |
| [**S5-211219**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211219.zip) | Rel-17 CR TS 28.541 Correct multiplicity issue for several attributes of NR NRM**Conclusion: Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting)** | Huawei | Ruiyue Xu | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) | 17.1.0 | [**eNRM**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=820032) | A |

**New thread title for the tdocs below:** [SA5#135e], 6.3-MAINT, S5-211352/S5-211353 Correct YANG errors

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| S5-211352 | Rel-16 CR 28.541 Correct YANG errors27 Jan.: **S5-211352 uploaded**29 Jan: File name corrected to …d1**Conclusion: d1 agreed – please upload final version as S5-211352** | Ericsson | Balazs Lengyel | [Rel-16](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [28.541](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3274) |  | [eNRM](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |
| S5-211353 | Rel-17 CR 28.541 Correct YANG errors28 Jan.: **S5-211353 uploaded**29 Jan: File name corrected to …d1**Conclusion: d1 agreed – please upload final version as S5-211353** | Ericsson | Balazs Lengyel | [Rel-16](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [28.541](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3274) |  | [eNRM](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | A |

#### TS 28.531:

**The following tdocs will be treated as individual email thread (2)**

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| [**S5-211048**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211048.zip) | Rel-16 CR TS 28.531 Correction of URI of Resource**Conclusion: Agreed with no comments received** | China Mobile Com. Corporation | Yaxi Hu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.531**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3274) | 16.8.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |

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| [**S5-211090**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211090.zip) | Rel-16 CR 28.531 Correction of NSI and NSSI Operations25 Jan: First set of comments26 Jan.: More comments 27 Jan.: More comments + **rev1 uploaded**28 Jan.: More comments1 Feb.: More comments 2 Feb.: More comments by Nokia (asking to have the “Support Qualifier” for nSId and nSSId to be unchanged (Mandatory)) and **Nokia has an objection if this is not done**.**Conclusion: Email approval** | Ericsson LM | Onnegren Jan | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.531**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3274) | 16.8.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |

#### TS 28.533:

**MAINT GROUP#6(S5-211058/S5-211059) Fix errors in Exposure Governance description (2)**

**Coordinator: Huawei (Lei Zhu)**

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| [**S5-211058**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211058.zip) | Rel-16 CR 28.533 Fix errors in Exposure Governance description26 Jan: First set of comments29 Jan: **Rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Huawei | Lei Zhu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.533**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3416) | 16.6.0 | [**NETSLICE**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=760066) | A |
| [**S5-211059**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211059.zip) | Rel-15 CR 28.533 Fix errors in Exposure Governance description26 Jan: First set of comments29 Jan: **Rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Huawei | Lei Zhu | [**Rel-15**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=190) | [**28.533**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3416) | 15.4.0 | [**NETSLICE**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=760066) | F |

#### TS 28.536

**MAINT GROUP#7 (S5-211057/S5-211060/S5-211061) COSLA NRM update (3)**

**Coordinator: Huawei (Lei Zhu)**

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| [**S5-211057**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211057.zip) | Rel-16 CR 28.536 Remove conflicting attribute definitions2-3 Feb.: More comments – this is a baseline correction CR to be validated in Forge and should go for email approval as per agreement in the conf. call on Forge the 2 Feb.4 Feb.: Code moderator for 28.536 reported that this CR is not a baseline correction CR, does not have Stage 3 impact and therefore does not need email approval; it can be directly agreed as there were no comments.**Conclusion: Agreed with no more comments received** | Huawei | Lei Zhu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.536**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3701) | 16.2.1 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |
| [**S5-211060**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211060.zip) | Rel-16 CR 28.536 Clarify modelling of AssuranceGoal2-3 Feb.: More comments – this is a baseline correction CR to be validated in Forge and should go for email approval as per agreement in the conf. call on Forge the 2 Feb.**Conclusion: Email approval (starting with rev1)** | Huawei | Lei Zhu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.536**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3701) | 16.2.1 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |
| [**S5-211061**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211061.zip) | Rel-16 CR 28.536 Correct OpenAPI definition of the COSLA NRM27 Jan: First set of comments (Ericsson supports)28 Jan.: Rev1 uploaded + more comments29 Jan.: **Rev2 uploaded** (Ericsson added as co-source)2-3 Feb.: More comments – this is a baseline correction CR to be validated in Forge and should go for email approval as per agreement in the conf. call on Forge the 2 Feb.**Conclusion: Email approval (starting with rev3)** | Huawei, Ericsson | Lei Zhu | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.536**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3701) | 16.2.1 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |

**MAINT GROUP#8 (S5-211331/S5-211337) update to 28.536 (2)**

**Coordinator: Ericsson (Jan Groenendijk)**

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| [**S5-211331**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211331.zip) | Rel 16 CR TS 28.536 Remove overview from stage 2 description**Conclusion: Agreed with no comments received** | Ericsson LM, Deutsche Telekom | Jan Groenendijk | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.536**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3701) | 16.2.1 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |
| [**S5-211337**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211337.zip) | Rel 16 CR TS 28.536 add explanation for Entities in loop25 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments + rev1 uploaded29 Jan: More comments**Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Lenovo Mobile Com. Technology | Ishan Vaishnavi | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.536**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3701) | 16.2.1 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | D |

#### TS 28.537

**The following tdocs will be treated as individual email thread (1)**

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| [**S5-211300**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211300.zip) | Rel-17 Draft CR 28.537 Add requirements for File Management26 Jan: First set of comments28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments1 Feb.: More comments + **rev2 uploaded**2 Feb.: More comments **(Ericsson objects)****Conclusion: Not pursued** | Nokia, Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.537**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3718) | 　 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | 　 |

#### TS 28.622&TS 28.623&TS28.532

**MAINT GROUP#9 (S5-211248/S5-211250/S5-211251) Replace legacy IRPAgent with MnsAgent (3)**

**Coordinator: Nokia (Olaf Pollakowski)**

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| [**S5-211248**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211248.zip) | Rel-16 CR 28.532 Correct support qualifiers of the notifyThresholdCrossing parameters (stage 2)26 Jan: First set of comments (Ericsson not supportive)27 Jan.: More comments + **rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Nokia, Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.532**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3427) | 16.6.0 | [**5G\_SLICE\_ePA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810031) | F |
| [**S5-211250**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211250.zip) | Rel-16 CR 28.622 Replace legacy IRPAgent with MnsAgent (stage 2)26 Jan: First set of comments (Ericsson not supportive)27 Jan.: More comments + **rev1 uploaded**1 Feb.: More comments + **rev2 uploaded** 1 Feb.: More comments**Conclusion: Rev2 Conditionally agreed – take out new tdoc# in 3GU for the final version** (Conditionally agreed due to the (related) Stage 3 being based on an erroneous Forge/TS baseline as reported under S5-211348 – please resubmit/update to SA5#136e) | Nokia, Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.622**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=1541) | 16.6.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |
| S5-211251(late) | Rel-16 CR 28.623 Replace legacy IRPAgent with MnsAgent (stage 3)26 Jan: First set of comments**Conclusion: Conditionally agreed with no comments received** (Conditionally agreed due to the Stage 3 being based on an erroneous Forge/TS baseline as reported under S5-211348 – please resubmit/update to SA5#136eto be updated for correct baseline) | Nokia, Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.623**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=1542) | 16.6.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |

**New thread title for the tdoc below:** [SA5#135e], 6.3-MAINT, S5-211351 Rel-16 CR 28.623 Correcting YANG errors

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| S5-211351 | Rel-16 CR 28.623 Correcting YANG errors27 Jan.: **S5-211351 uploaded**29 Jan.: File name corrected to …d1**Conclusion: d1 agreed – please upload final version as S5-211351** | Ericsson | Balazs Lengyel | [Rel-16](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | 62328.541 |  | [eNRM](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |

#### TS 28.530

**MAINT GROUP#10 (S5-211312/S5-211313) cleanup concepts of network slice business model (2)**

**Coordinator: Nokia (Jing Ping)**

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| [**S5-211312**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211312.zip) | Rel-16 cleanup concepts of network slice buisness model25 Jan: First set of comments **(objection from Orange)**26 Jan.: More comments **(Ericsson and Huawei not supportive)**30-31 Jan: More comments1 Feb.: More comments2 Feb.: More comments **(Ericsson objects)****Conclusion: Not pursued** | Nokia, Nokia Shanghai Bell, Telefónica S.A. | Jing Ping | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.530**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3273) | 16.4.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |
| [**S5-211313**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211313.zip) | Rel-17 cleanup concepts of network slice buisness model25 Jan: First set of comments **(objection from Orange)**26 Jan.: More comments **(Ericsson and Huawei not supportive)**1 Feb.: More comments2 Feb.: More comments **(Ericsson objects)****Conclusion: Not pursued** | Nokia, Nokia Shanghai Bell, Telefónica S.A. | Jing Ping | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.530**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3273) | 17.0.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | A |

#### TS 28.535

**MAINT GROUP#11 (S5-211327/S5-211328/S5-211330** **S5-211329) communication service assurance stage 1 and stage 2 alignment (4)**

**Coordinator: Ericsson (Jan Groenendijk)**

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| [**S5-211327**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211327.zip) | Proposal on communication service assurance stage 1 and stage 2 alignment25 Jan: First set of comments (Huawei not supportive)28 Jan.: More comments2 Feb.: More comments **(Huawei not supportive; Ericsson agrees to note it and discuss more at next meeting)****Conclusion: Not pursued** | Ericsson LM, Deutsche Telekom | Jan Groenendijk |  |  | 　 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | 　 |
| [**S5-211328**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211328.zip) | Rel 16 CR TS 28.535 Update use cases and requirements to replace communication service25 Jan: First set of comments **(Huawei not supportive)**26 Jan.: More comments **(Samsung supportive)**27 Jan.: More comments + **rev1 uploaded**28 Jan.: More comments29 Jan: More comments + r**ev2 uploaded (merge with 330) + recommended by MCC to create new tdoc# 1354; see Zou Lan’s chair notes.**1 Feb.: More comments + **rev3 uploaded**2 Feb.: More comments **(Huawei not supportive; Ericsson agrees to note it and discuss more at next meeting)****Conclusion: Not pursued** | Ericsson LM, Deutsche Telekom | Jan Groenendijk | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.535**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3693) | 16.2.0 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |
| [**S5-211330**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211330.zip) | Rel 16 CR TS 28.535 Remove use cases and requirements with no solution25 Jan: First set of comments **(Huawei not supportive)**28 Jan.: More comments **(Lenovo Conditionally supportive)**29 Jan: More comments + 330 is **merged with 328rev2****Conclusion: Merged in revision of 1328** | Ericsson LM, Deutsche Telekom | Jan Groenendijk | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.535**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3693) | 16.2.0 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |
| **S5-211329** | Rel 17 CR TS 28.535 Update use cases and requirements to replace communication service(Reallocate 6.4.12 -> 6.3)25 Jan: First set of comments **(Huawei not supportive)**26 Jan.: More comments **(Samsung supportive)**27 Jan.: More comments + **rev1 uploaded**28 Jan.: More comments29 Jan: More comments + r**ev2 uploaded**1 Feb.: More comments + **rev3 uploaded**2 Feb.: More comments **(Huawei not supportive; Ericsson agrees to note it and discuss more at next meeting)****Conclusion: Not pursued** | Ericsson LM, Deutsche Telekom | Jan Groenendijk | 6.4.12 | Rel-17 | 28.535 | 17.0.0 | COSLA |

**The following tdocs will be treated as individual email thread (1)**

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| [**S5-211333**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211333.zip) | Rel 16 CR TS 28.535 Clarify intelligence in clause 425 Jan: First set of comments26 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments (seems ok for Huawei)**Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM, Deutsche Telekom | Jan Groenendijk | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.535**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3693) | 16.2.0 | [**COSLA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=850026) | F |

#### TS 28.532

**MAINT GROUP#12 (S5-211242/S5-211246/S5-211247) Correct definitions for the File MnS (3)**

**Coordinator: Nokia (Olaf Pollakowski)**

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| [**S5-211242**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211242.zip) | Rel-16 CR 28.532 Correct definitions for the File MnS (stage 2)25 Jan: First set of comments26 Jan.: More comments27-28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments1 Feb.: More comments + **rev2 uploaded**2 Feb.: More comments **(Ericsson objects)****Conclusion: Not pursued** | Nokia, Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.532**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3427) | 16.6.0 | [**5G\_SLICE\_ePA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810031) | F |
| [**S5-211246**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211246.zip) | Rel-16 CR 28.532 Correct definitions for the File MnS (REST SS)26 Jan: First set of comments27-28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments1 Feb.: More comments + **rev2 uploaded****Conclusion: Not pursued (due to objection for Stage 2 in 1242)** | Nokia; Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.532**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3427) | 16.6.0 | [**5G\_SLICE\_ePA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810031) | F |
| [**S5-211247**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211247.zip) | Rel-16 CR 28.532 Correct definitions for the File MnS (OpenAPI definitions)26 Jan: First set of comments27-28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments1 Feb.: More comments + **rev2 uploaded****Conclusion: Not pursued (due to objection for Stage 2 in 1242)** | Nokia, Nokia Shanghai Bell | Olaf Pollakowski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.532**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3427) | 16.6.0 | [**5G\_SLICE\_ePA**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=810031) | F |

#### TS 28.310

**The following tdocs will be treated as individual email thread (1)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**S5-211041**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211041.zip) | Rel-16 CR TS 28.310 Introducing the ES probing procedure25 Jan: First set of comments (MCC)26 Jan.: More comments28 Jan.: More comments1 Feb.: More comments + **rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | KPN N.V. | Ljupco Jorguseski | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.310**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3550) | 16.3.0 | [**EE5GPLUS**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=870022) | F |

#### TS 32.422

**NOTE: This thread needs to be merged with 1083 which is a mirror CR to 1077**

**New thread title:** [SA5#135e], 6.3-MAINT, S5-211077/S5-211083 Add new clause for URI

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**S5-211077**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211077.zip) | Add new clause for URI25 Jan: First set of comments (MCC)26 Jan.: More comments + **rev1 uploaded**27 Jan.: More comments + **rev2 + rev3 uploaded**28 Jan.: More comments1 Feb.: More comments + **rev4 uploaded****Conclusion: Rev4 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM | Xiao-Ming Gao | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**32.422**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2009) | 16.4.0 | [**5GMDT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860021) | F |
| **[S5-211083](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211083.zip)** | Add new clause for URI25 Jan: First set of comments (MCC)26 Jan.: More comments + **rev1 uploaded**27 Jan.: More comments + **rev2 + rev3 uploaded**28 Jan.: More comments1 Feb.: More comments + **rev4 uploaded****Conclusion: Rev4 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM | Xiao-Ming Gao | **[32.422](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2009)** |

#### TS 32.423

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**S5-211079**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211079.zip) | Correct trace record information for immediate MDT measurement**Note: This thread (not tdoc) has been merged with S5-211087 which is the Rel-17 mirror CR to 1079**25 Jan: First set of comments (MCC)27 Jan.: More comments + **rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM | Xiao-Ming Gao | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**32.423**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2010) | 16.3.0 | [**5GMDT**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=860021) | F |
| **[S5-211087](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211087.zip)** | Correct trace record information for immediate MDT measurement**Note: This thread (not tdoc) has been merged with S5-211079 which is the Rel-16 Cat-F CR for this Rel-17 mirror CR**25 Jan: First set of comments (MCC)27 Jan.: More comments + **rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM | Xiao-Ming Gao | **[32.423](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2010)** |

#### TS 28.545

**The following tdocs will be treated as individual email thread (1)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**S5-211289**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211289.zip) | Rel-16 CR 28.545 Add missing Alarm Requirements and Use Cases26 Jan: First set of comments28 Jan.: More comments2 Feb.: More comments **(Huawei objects)****Conclusion: Not pursued** | Ericsson LM | Mark Scott | [**Rel-16**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=191) | [**28.545**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3418) | 16.1.0 | [**TEI16**](http://portal.3gpp.org/desktopmodules/WorkItem/WorkItemDetails.aspx?workitemId=770050) | F |

#### Discussion paper:

**The following tdocs will be treated as individual email thread (1)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**S5-211336**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211336.zip) | Discussion paper on state management26 Jan: First set of comments27-28 Jan.: More comments2 Feb.: More comments **(Huawei objects)****Conclusion: Noted** | Ericsson LM, Deutsche Telekom | Jan Groenendijk |  |  | 　 |  | 　 |

**New Forge/Baseline correction CRs for email approval as agreed under the conf. call on S5-211348 2 Feb. (see notes for S5-211348):**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S5-211341 | Rel-16 CR fix compilation error in 28541**Conclusion: Email approval** | Nokia | Jing Ping |  |  | 　 |  | 　 |
| S5-211342 | Rel-17 CR fix compilation error in 28541**Conclusion: Email approval** | Nokia | Jing Ping |  |  | 　 |  | 　 |
| S5-211343 | Rel-16 CR fix compilation error in 28623**Conclusion: Email approval** | Nokia | Jing Ping |  |  | 　 |  | 　 |
| S5-211344 | Rel-16 CR fix compilation error in 28532**Conclusion: Email approval** | Nokia | Jing Ping |  |  | 　 |  | 　 |

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| --- | --- | --- | --- | --- |
| **6.4** | **Rel-17 Operations, Administration, Maintenance and Provisioning (OAM&P)** |  |  |  |
| 6.4.1 | Management of non-public networks | OAM\_NPN | 870023 | **Total 7 tdocs/ 7 email threads (7 tdocs)** |

### 6.4.1 OAM\_NPN email thread TITLE list (7)：

|  |
| --- |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211106 pCR 28.557 Add CAG management |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211137 pCR 28.557 Management modes of NPN |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211138 pCR 28.557 Roles related to 5G PLMN management and NPN management |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211139 pCR 28.557 Update on NID for SNPN management |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211140 pCR 28.557 Update on use case of SNPN |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211141 pCR 28.557 Collecting UE related data and providing to authorized NPN service customer |
| [SA5#135e], 6.4.1- OAM\_NPN, S5-211142 pCR 28.557 Add generic requirements for management of NPN |

**The following tdocs will be treated as individual email thread (7)**

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211106**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211106.zip) | pCR 28.557 Add CAG management26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**31 Jan: More comments + **rev2 uploaded****Conclusion: Rev2 approved – take out new tdoc# in 3GU for the final version** | TELEFONICA S.A. | Jose Ordonez-Lucena |

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211137**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211137.zip) | pCR 28.557 Management modes of NPN26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments (rev1 seems ok for Orange)**Conclusion: Rev1 approved – take out new tdoc# in 3GU for the final version** | Huawei | Kai Zhang |

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211138**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211138.zip) | pCR 28.557 Roles related to 5G PLMN management and NPN management26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments1 Feb.: More comments + **rev1 uploaded****Conclusion: Rev1 approved – take out new tdoc# in 3GU for the final version** | Huawei | Kai Zhang |

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211139**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211139.zip) | pCR 28.557 Update on NID for SNPN management26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**29 Jan: More comments1 Feb.: More comments + **rev2 uploaded** + more comments**Conclusion: Rev2 approved – take out new tdoc# in 3GU for the final version** | Huawei | Kai Zhang |

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211140**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211140.zip) | pCR 28.557 Update on use case of SNPN26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**31 Jan: More comments1 Feb.: More comments (seems ok for Orange)**Conclusion: Rev1 approved – take out new tdoc# in 3GU for the final version** | Huawei | Kai Zhang |

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211141**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211141.zip) | pCR 28.557 Collecting UE related data and providing to authorized NPN service customer26 Jan: First set of comments28 Jan.: More comments + **rev1 uploaded**31 Jan: More comments1 Feb.: More comments + **rev2 uploaded****Conclusion: Rev2 approved – take out new tdoc# in 3GU for the final version** | Huawei | Kai Zhang |

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211142**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211142.zip) | pCR 28.557 Add generic requirements for management of NPN26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments + **rev1 uploaded**31 Jan: More comments (rev1 seems ok for Orange)**Conclusion: Rev1 approved – take out new tdoc# in 3GU for the final version** | Huawei | Kai Zhang |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6.4.2 | Enhancement on Management Aspects of 5G Service-Level Agreement | EMA5SLA | 870024 | **Total 10 tdocs/ 4 email threads (2 groups + 2 tdocs)** |

### 6.4.2 EMA5SLA email thread TITLE list (3):

|  |
| --- |
| [SA5#135e], 6.4.2- EMA5SLA, GROUP#1 (S5-211143/S5-211144) modification to ServiceProfile |
| [SA5#135e], 6.4.2- EMA5SLA, GROUP#2 (S5-211066/S5-211159/S5-211160/S5-211245/S5-211249/S5-211335) Input to draftCR |
| [SA5#135e], 6.4.2- EMA5SLA, S5-211145 Living document of review of GSMA GST SA5#135e |
| [SA5#135e], 6.4.2- EMA5SLA, S5-211334 Discussion paper on latency |

**EMA5SLA GROUP#1 (S5-211143/S5-211144) modification to ServiceProfile (2)**

**Coordinator: Huawei (Kai Zhang)**

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211143**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211143.zip) | Rel-17 CR 28.541 Add positioning support in ServiceProfile26 Jan: First set of comments27 Jan.: **Question from Huawei offline to the Leaders to check whether this CR is OK**, as it is extracting a part of the official DraftCR for EMA5SLA. Leaders’ reply: This should not be done as it would be in conflict with the DraftCR.**Conclusion: Not pursued** | Huawei, China Mobile | Kai Zhang |
| [**S5-211144**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211144.zip) | Rel-17 CR 28.541 Add synchronicity support in ServiceProfile26 Jan: First set of comments27 Jan.: **Question from Huawei offline to the Leaders to check whether this CR is OK**, as it is extracting a part of the official DraftCR for EMA5SLA. Leaders’ reply: This should not be done as it would be in conflict with the DraftCR.**Conclusion: Not pursued** | Huawei, China Mobile | Kai Zhang |

**EMA5SLA GROUP#2 (S5-211066/S5-211159/S5-211160/S5-211245/S5-211249/S5-211335) Input to draftCR (6)**

**Coordinator: China Mobile (Xiaowen Sun)**

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211066**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211066.zip) | Rel-17 Input to draftCR 28.541 update CN sliceProfile26 Jan: First set of comments27 Jan.: More comments28 Jan.: More comments **(proposed to merge with 1159)**29 Jan.: 1066 Merged with 1159rev1.**Conclusion: Merged with revision of 1159** | Huawei | Lei Zhu |
| [**S5-211159**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211159.zip) | Rel-17 Input to draftCR 28.541 Add new attributes in CNSliceSubnetProfile and RANSliceSubnetProfile26 Jan: First set of comments27 Jan.: More comments29 Jan: **Rev1 uploaded – merge of 1159+1066**2 Feb.: **Rev2 uploaded** (adding new supporting company)**Conclusion: Rev2 approved – take out new tdoc# in 3GU for the final version** | China Mobile Com. Corporation | Xiaowen Sun |
| [**S5-211160**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211160.zip) | Rel-17 Input to draftCR 28.541 Define performance requirements in different domains and update the related slice profile26 Jan: First set of comments27 Jan.: More comments29 Jan: **Rev1 uploaded**1 Feb.: More comments (Huawei would like to support and co-sign 1160) + **rev2 uploaded**2 Feb.: More comments **(Ericsson objects)****Conclusion: Not pursued** | China Mobile Com. Corporation | Xiaowen Sun |
| [**S5-211245**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211245.zip) | Rel-17 Input To draftCR for WI eMA5SLA Slice Profile27 Jan: First set of comments + **rev1 uploaded**28 Jan: More comments + **rev2 + rev3 uploaded**2 Feb.: More comments + **rev4 uploaded** (uploaded with forge link)**Conclusion: Rev4 approved – take out new tdoc# in 3GU for the final version** | Samsung Electronics Benelux BV | Deepanshu Gautam |
| [**S5-211249**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211249.zip) | Rel-17 Input To draftCR for WI eMA5SLA Configuration Parameters26 Jan: First set of comments **(TEF would like to co-sign)**27 Jan.: More comments + **rev1 uploaded**28 Jan: More comments + **rev2 uploaded**29 Jan.: More comments + r**ev3 uploaded****Conclusion: Rev3 approved – take out new tdoc# in 3GU for the final version** | Samsung Electronics Benelux BV | Deepanshu Gautam |
| [**S5-211335**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211335.zip) | Rel-17 TS 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA27 Jan: First set of comments (Huawei not supportive)28 Jan.: More comments29 Jan: **More comments (MCC) – this has the wrong type “CR”, needs to be of type “Other” as input to draftCR**. New tdoc# is needed.**29 Jan.: S5-211359d1 of type “Other” as input to draftCR is uploaded by author (see 1359 below).****Conclusion: Not pursued** | Ericsson LM, Deutsche Telekom | Jan Groenendijk |

|  |  |  |  |
| --- | --- | --- | --- |
| **S5-211359** | Rel-17 28.541 Input on ServiceProfile to DraftCR for WI eMA5SLA(this is created from 1335 which had wrong doc. type)29 Jan.: d1 uploaded1 Feb.: More comments + **d2 uploaded**2 Feb.: More comments + **d3 uploaded** (summary of change has been corrected)**Conclusion: d3 approved – please upload final version as S5-211359** | Ericsson LM, Deutsche Telekom | Jan Groenendijk |

**29 Jan. Conf. call:**

CMCC informed that there has been an offline meeting yesterday to discuss this group, and several agreements were made which results in revision of all the documents in the group. They have been uploaded in Drafts already.

Comments on the revisions:

No more comments right now – please review all revised versions and comment in the respective thread. Also look out for the anticipated updated DraftCR on 28.541, to be sent out by tonight.

|  |  |  |  |
| --- | --- | --- | --- |
| **S5-211356** | **Update DraftCR for WI EMA5SLA-TS 28.540****(DraftCR updated for latest TS baseline)**29 Jan.: rev1 uploaded**Conclusion: rev1 agreed – please upload final version as S5-211356** | China Mobile Com. Corporation | Xiaowen Sun |
| **S5-211357** | **Update DraftCR for WI EMA5SLA-TS 28.541****(DraftCR updated for latest TS baseline)**29 Jan.: rev1 uploaded**Chair: 1357rev1 updated for latest TS baseline, continue with email approval in rev2(d2) to include all approved “input to DraftCR” for this DraftCR****Conclusion: Email approval** | China Mobile Com. Corporation | Xiaowen Sun |

**The following tdocs will be treated as individual email thread (2)**

|  |  |  |  |
| --- | --- | --- | --- |
| [**S5-211145**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211145.zip) | Living document of review of GSMA GST SA5#135e**Conclusion: Endorsed with no comments received** | Huawei, China Mobile | Kai Zhang |

|  |  |  |  |
| --- | --- | --- | --- |
| S5-211334 | Discussion paper on latencyWithdrawn | Ericsson LM | Jan Groenendijk |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6.4.3 | Management of MDT enhancement in 5G | e\_5GMDT | 870025 | **Total 9 tdocs/ 7 email threads (2 groups+5tdocs)** |

### 6.4.3 e\_5GMDT email thread TITLE list (7):

|  |
| --- |
| [SA5#135e], 6.4.3- e\_5GMDT, GROUP#1 (S5-211062/S5-211063) Clarify failure happened in signalling activation |
| [SA5#135e], 6.4.3- e\_5GMDT, GROUP#2 (S5-211064/S5-211065) Correct tracing roaming subscribers case |
| [SA5#135e], 6.4.3- e\_5GMDT, S5-211082 Add new requirement for GPB trace format |
|  |
| [SA5#135e], 6.4.3- e\_5GMDT, S5-211086 Add new parameters for trace record header |
|  |
| [SA5#135e], 6.4.3- e\_5GMDT, S5-211051 Discussion on user consent for RLF and CEF report |

**e\_5GMDT GROUP#1 (S5-211062/S5-211063) Clarify failure happened in signalling activation (2)**

**Coordinator: Huawei (Lei Zhu)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**S5-211062**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211062.zip) | Rel-16 CR TS 32.422 Clarify failure happened in signalling activation27 Jan: First set of comments **(Nokia objects)**3 Feb.: Nokia maintains the objection**Conclusion: Not pursued** | Huawei | Lei Zhu | [**32.422**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2009) |
| [**S5-211063**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211063.zip) | Rel-17 CR TS 32.422 Clarify failure happened in signalling activation27 Jan: First set of comments **(Nokia objects)**3 Feb.: Nokia maintains the objection**Conclusion: Not pursued** | Huawei | Lei Zhu | [**32.422**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2009) |

**e\_5GMDT GROUP#2 (S5-211064/S5-211065) Correct tracing roaming subscribers case (2)**

**Coordinator: Huawei (Lei Zhu)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**S5-211064**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211064.zip) | Rel-16 CR TS 32.422 Correct tracing roaming subscribers case**Conclusion: Agreed with no comments received** | Huawei | Lei Zhu | [**32.422**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2009) |
| [**S5-211065**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211065.zip) | Rel-17 CR TS 32.422 Correct tracing roaming subscribers case**Conclusion: Agreed with no comments received** | Huawei | Lei Zhu | [**32.422**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2009) |

**The following tdocs will be treated as individual email thread (5)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**S5-211082**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211082.zip) | Add new requirement for GPB trace format25 Jan: First set of comments (MCC)26 Jan.: More comments + **rev1 uploaded****Conclusion: Rev1 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM | Xiao-Ming Gao | [**32.421**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2008) |

|  |  |  |  |  |
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|  |  |  |  |  |

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| --- | --- | --- | --- | --- |
| [**S5-211086**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211086.zip) | Add new parameters for trace record header26 Jan: First set of comments27-28 Jan.: More comments **(Nokia objects)** + **rev1 uploaded**1 Feb.: More comments + **rev2 uploaded**1 Feb.: More comments (rev2 seems ok for Nokia)**Conclusion: Rev2 agreed – take out new tdoc# in 3GU for the final version** | Ericsson LM | Xiao-Ming Gao | [**32.423**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=2010) |

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| --- | --- | --- | --- | --- |
| 6.4.4 | Additional NRM features | adNRM | 870026 | **Total 6 tdocs/ 5 email threads (1 group +4 tdocs)** |

### 6.4.4 adNRM email thread TITLE list (5):

|  |
| --- |
| [SA5#135e], 6.4.4- adNRM, GROUP#1 (S5-211316/S5-211318) Correct NR endpoint classes containment in YANG |
| [SA5#135e], 6.4.4- adNRM, S5-211080 New pattern of mapping classes and containment in YANG |
| [SA5#135e], 6.4.4- adNRM, S5-211084 YANG containment mapping |
| [SA5#135e], 6.4.4- adNRM, S5-211286 Code begin end markers |
| [SA5#135e], 6.4.4- adNRM, S5-211299 Correct NtfSubscriptionControl containment in YANG |

**adNRM GROUP#1 (S5-211316/S5-211318) Correct NR endpoint classes containment in YANG (2)**

**Coordinator: Ericsson (Balazs Lengyel)**

|  |  |  |  |  |
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| [**S5-211316**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211316.zip) | Correct NR endpoint classes containment in YANG**Conclusion: Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting)** | Ericsson Hungary Ltd | Balazs Lengyel | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) |
| [**S5-211318**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211318.zip) | Correct NR endpoint classes containment in YANG**Conclusion: Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting)** | Ericsson Hungary Ltd | Balazs Lengyel | [**28.541**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3400) |

**The following tdocs will be treated as individual email thread (4)**

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| [**S5-211080**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211080.zip) | New pattern of mapping classes and containment in YANG**Conclusion: Endorsed with no comments received** | Ericsson Hungary Ltd | Balazs Lengyel |  |

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| --- | --- | --- | --- | --- |
| [**S5-211084**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211084.zip) | YANG containment mapping25 Jan: First set of comments (from MCC)**4 Feb: Contents agreed – but need to take out new tdoc# in 3GU to fix the MCC formal/editorial comments** in the final version. New tdoc# is 1430 (see below). 1084 needs to be Not pursued because 1430 did not indicate “Revision of 1084” in 3GU (according to MCC).**Conclusion: Not pursued** | Ericsson Hungary Ltd | Balazs Lengyel | [**32.160**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3552) |

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| **S5-211430** | YANG containment mapping4 Feb.: See comments for 1084 above; this is s revision of 1084 with MCC formal/editorial comments fixed in this final version.**Conclusion: Agreed** | Ericsson Hungary Ltd | Balazs Lengyel | **[32.160](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3552)** |

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| [**S5-211286**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211286.zip) | Code begin end markers**Conclusion: Endorsed with no comments received** | Ericsson Hungary Ltd | Balazs Lengyel |  |

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| [**S5-211299**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211299.zip) | Correct NtfSubscriptionControl containment in YANG**Conclusion: Conditionally agreed (need to check/update for correct Forge/TS baseline at next meeting)** | Ericsson Hungary Ltd | Balazs Lengyel | [**28.623**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=1542) |

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| 6.4.5 | Enhancement of QoE Measurement Collection | eQoE | 870027 | **Total 1 tdoc/ 1 email thread (1 tdoc)** |

### 6.4.5 eQoE email thread TITLE list (1):

|  |
| --- |
| [SA5#135e], 6.4.5- eQoE, S5-211232 Adding Signalling Based Activation for UTRAN and LTE |

**The following tdocs will be treated as individual email thread (1)**

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| --- | --- | --- | --- | --- | --- |
| [**S5-211232**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211232.zip) | Adding Signalling Based Activation for UTRAN and LTE**Conclusion: Approved with no comments received** | Ericsson LM | Bagher Zadeh | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.405**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3265) |

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| **S5-211xyz** | **DraftCR for eQoE - TS 28.405** (Based on the approved input S5-211232)**Conclusion: Email approval** | Ericsson LM | Robert Petersen | **[Rel-17](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192)** | **[28.405](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3265)** |

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| 6.4.6 | Enhancements of 5G performance measurements and KPIs | ePM\_KPI\_5G | 880025 | **Total 6 tdocs/ 5 email thread (1 group+4 tdocs)** |

### 6.4.6 ePM\_KPI\_5G email thread TITLE list (5):

|  |
| --- |
| [SA5#135e], 6.4.6- ePM\_KPI\_5G, GROUP#1 (S5-211049/S5-211050) measurements for SMSF |
| [SA5#135e], 6.4.6- ePM\_KPI\_5G, S5-211093 Rel-17 TS 28.554 How to update the accessibility KPI to cover RRC Resume |
| [SA5#135e], 6.4.6- ePM\_KPI\_5G, S5-211102 Input to draft CR Rel-17 28.552 Add measurements on SMF-NEF connection establishment |
| [SA5#135e], 6.4.6- ePM\_KPI\_5G, S5-211103 Input to draft CR Rel-17 28.552 Add measurements on service specific parameter provisioning |
| [SA5#135e], 6.4.6- ePM\_KPI\_5G, S5-211104 Input to draft CR Rel-17 28.552 Add measurements on policy negotiation for future background data transfer |

**ePM\_KPI\_5G GROUP#1 (S5-211049/S5-211050) measurements for SMSF (2)**

**Coordinator: China Mobile (Yaxi Hu)**

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| --- | --- | --- | --- | --- | --- |
| [**S5-211049**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211049.zip) | Rel-17 CR TS 28.552 Addition of SMS message delivery related measurements for SMSF26 Jan: First set of comments**Conclusion: Agreed with no more comments received** | China Mobile Com. Corporation | Yaxi Hu | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.552**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3413) |
| [**S5-211050**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211050.zip) | Rel-17 CR TS 28.552 Addition of Registration measurements for SMSF26 Jan: First set of comments**Conclusion: Agreed with no more comments received** | China Mobile Com. Corporation | Yaxi Hu | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.552**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3413) |

**The following tdocs will be treated as individual email thread (4)**

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| --- | --- | --- | --- | --- | --- |
| [**S5-211093**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211093.zip) | Rel-17 TS 28.554 How to update the accessibility KPI to cover RRC Resume**Conclusion: Endorsed with no comments received** | Ericsson LM | Onnegren Jan | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.554**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3415) |

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| [**S5-211102**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211102.zip) | Input to draft CR Rel-17 28.552 Add measurements on SMF-NEF connection establishment**Conclusion: Approved with no comments received** | Intel Finland Oy | Yizhi Yao | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.552**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3413) |

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| [**S5-211103**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211103.zip) | Input to draft CR Rel-17 28.552 Add measurements on service specific parameter provisioning1 Feb.: First set of comments**Conclusion: Approved with no more comments received** | Intel Finland Oy | Yizhi Yao | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.552**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3413) |

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| --- | --- | --- | --- | --- | --- |
| [**S5-211104**](https://www.3gpp.org/ftp/TSG_SA/WG5_TM/TSGS5_135e/Docs/S5-211104.zip) | Input to draft CR Rel-17 28.552 Add measurements on policy negotiation for future background data transfer1 Feb.: First set of comments**Conclusion: Approved with no more comments received** | Intel Finland Oy | Yizhi Yao | [**Rel-17**](http://portal.3gpp.org/desktopmodules/Release/ReleaseDetails.aspx?releaseId=192) | [**28.552**](http://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3413) |

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| --- | --- | --- | --- |
| **S5-211355** | **DraftCR for 6.4.6 ePM\_KPI\_5G - TS 28.552****(DraftCR updated for latest TS baseline)**29 Jan.: d1 uploaded**Intel & chair: Confirmed no update on the content, the baseline version needs to be updated on the cover page – done in d1. Continue with SA5#135e email approval in d2 to include all approved “input to DraftCR”.****Conclusion: Email approval** | Intel | Yizhi Yao |

## D. Tdocs statistics

**SA5 level tdocs Statistics:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Agenda Item** | **Total tdocs** | **Email threads**  | **Description** |
| 1~5 | 14 | 8 | 2+6 |

**OAM tdocs Statistics:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Agenda Item** | **Acronym** | **Total tdocs** | **Email threads**  | **Description(groups+tdocs)** |
| **6.1** | OAM plenary | 28 | 18 | 8+10 |
| **6.2** | new WID | 8 | 5 | 3+2 |
| **6.3**  | MAINT | 44 | 21 | 12+9 |
| **6.4** |  |  |  |  |
| 6.4.1 | OAM\_NPN | 7 | 7 | 0+7 |
| 6.4.2 | EMA5SLA | 10 | 4 | 2+2 |
| 6.4.3 | e\_5GMDT | 9 | 7 | 2+5 |
| 6.4.4 | adNRM | 6 | 5 | 1+4 |
| 6.4.5 | eQoE | 1 | 1 | 0+1 |
| 6.4.6 | ePM\_KPI\_5G | 6 | 5 | 1+4 |
| 6.4.7 | eMEMTANE | 1 | 1 | 0+1 |
| 6.4.8 | MADCOL | 1 | 1 | 0+1 |
| 6.4.9 | ANL | 4 | 4 | 0+4 |
| 6.4.10 | IDMS\_MN | 5 | 2 | 1+1 |
| 6.4.11 | NPM | 0 |  |  |
| 6.4.12 | eCOSLA | 8 | 6 | 2+4 |
| 6.4.13 | eSON\_5G | 5 | 3 | 2+1 |
| 6.4.14 | E\_HOO | 4 | 2 | 1+1 |
| 6.4.15 | EE5GPLUS | 2 | 2 | 0+2 |
| 6.4.16 | 5GDMS | 4 | 3 | 1+2 |
| 6.4.17 | MANS | 14 | 6 | 5+1 |
| **6.5** |  |  |  |  |
| 6.5.1 | FS\_5GSAT\_MO | 3 | 1 | 1+0 |
| 6.5.2 | FS\_EE5G | 9 | 5 | 3+2 |
| 6.5.3 | FS\_eEDGE\_Mgt | 14 | 6 | 6+0 |
| 6.5.4 | FS\_eMDAS | 21 | 15 | 5+10 |
| 6.5.5 | FS\_NSMEN | 5 | 5 | 0+5 |
| 6.5.6 | FS\_YANG | 0 |  |  |
| 6.5.7 | FS\_MNSAC | 6 | 2 | 2+0 |
| Total |  | 225 | 137 |  |

#### Color codes for Tdoc status

Tdoc – late Tdoc – resubmitted

Leaders recommendation

**Closing SA5 plenary (3 Feb. 14:00-16:00 CET)**

**Agenda and minutes:**

**- SA5 general information**

**- CH exec report and final (CH) conclusions confirmation**

 **All CRs agreed by Charging were confirmed agreed by SA5**

**- SA5 agenda item 2.x-5.x conclusions confirmation**

 **All SA5-level tdoc conclusions were confirmed**

**- If time allows:** Start verifying OAM conclusions and decide if any more email approvals other than latest draft TS/TRs and DraftCRs (e.g. LSs) are needed. Note: After the closing plenary, verifying all OAM conclusions will be made via email as described on slide 19.

**- AOB**

 Matrixx asked about Tdocs S5-211205 which may need CH/OAM coordination. See notes under 1205.

**List of ongoing OAM Rel-17 Work items and Studies included in the SA5#135e agenda**

**(to be updated offline after the closing plenary):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **6.4** | **Rel-17 Operations, Administration, Maintenance and Provisioning (OAM&P)** | **Acronym** | **UID** | **Rapporteur** | **Completion status at SA#90** **(Dec. 2020)** | **Completion status at SA5#135e** | **Target date (needs update?)** |
| 6.4.1 | Management of non-public networks | OAM\_NPN | 870023 | Huawei | 15% | **25%** | SA#92 (Jun. 2021) |
| 6.4.2 | Enhancement on Management Aspects of 5G Service-Level Agreement | EMA5SLA | 870024 | China Mobile | 40% | **50%** | SA#91 (Mar. 2021 -> SA#92 (Jun. 2021) |
| 6.4.3 | Management of MDT enhancement in 5G | e\_5GMDT | 870025 | Ericsson | 50% | **60%** | SA#92 (Jun. 2021) ->SA#94 (Dec. 2021) |
| 6.4.4 | Additional NRM features | adNRM | 870026 | Nokia | 5% | **10%** | SA#92 (Jun. 2021) |
| 6.4.5 | Enhancement of QoE Measurement Collection | eQoE | 870027 | Ericsson | 5% | **10%** | SA#93 (Sep. 2021) |
| 6.4.6 | Enhancements of 5G performance measurements and KPIs | ePM\_KPI\_5G | 880025 | Intel | 20% | **30%** | SA#93 (Sep. 2021) |
| 6.4.7 | Management of the enhanced tenant concept | eMEMTANE | 880026 | Huawei | 5% | **5%** | SA#94 (Dec. 2021) |
| 6.4.8 | Management data collection control and discovery | MADCOL | 880028 | Nokia | 5% | **10%** | SA#93 (Sep. 2021) |
| 6.4.9 | Autonomous network levels | ANL | 880027 | China Mobile | 30% | **40%** | SA#92 (Jun. 2021) |
| 6.4.10 | Intent driven management service for mobile networks | IDMS\_MN | 810027 | Huawei | 65% | **65%** | SA#93 (Sep. 2021) |
| 6.4.11 | Network policy management for 5G mobile networks based on NFV scenarios | NPM | 860024 | China Mobile | 60% | **60%** | SA#92 (Jun. 2021) |
| 6.4.12 | Enhanced Closed loop SLS Assurance | eCOSLA | 870030 | Ericsson | 10% | **20%** | SA#93 (Sep. 2021) |
| 6.4.13 | Self-Organizing Networks (SON) for 5G networks | eSON\_5G | 870028 | Intel | 5% | **15%** | SA#92 (Jun. 2021) |
| 6.4.14 | Enhancement of Handover Optimization | E\_HOO | 880029 | Ericsson | 5% | **10%** | SA#92 (Jun. 2021) ->SA#95 (Mar. 2022) |
| 6.4.15 | Enhancements on EE for 5G networks | EE5GPLUS | 870022 | Orange | 10% | **20%** | SA#93 (Sep. 2021) |
| 6.4.16 | Discovery of management services in 5G | 5GDMS | 820035 | Huawei | 50% | **60%** | SA#93 (Sep. 2021) |
| 6.4.17 | Management Aspects of 5G Network Sharing | MANS | 900021 | China Unicom | 0% | **15%** | SA#93 (Sep. 2021) |
| **6.5** | **OAM&P Studies** |  |  |  |  |  |  |
| 6.5.1 | Study on management and orchestration aspects with integrated satellite components in a 5G network | FS\_5GSAT\_MO | 830025 | TNO | 90% | **95%** | SA#91 (Mar. 2021) |
| 6.5.2 | Study on new aspects of EE for 5G networks | FS\_EE5G | 870021 | Orange | 45% | **50%** | SA#93 (Sep. 2021) |
| 6.5.3 | Study on management aspects of edge computing | FS\_eEDGE\_Mgt | 870029 | Intel | 25% | **50%** | SA#92 (Jun. 2021) |
| 6.5.4 | Study on enhancement of Management Data Analytics Service | FS\_eMDAS | 850028 | Intel, NEC | 90% | **95%** | SA#91 (Mar.2021) |
| 6.5.5 | Study on network slice management enhancement (revised to include security aspects) | FS\_NSMEN | 860022 | Huawei  | 20% | **30%** | SA#92 (Jun. 2021) |
| 6.5.6 | Study on YANG PUSH  | FS\_YANG | 890017 | Ericsson | 5% | **5%** | SA#91 (Mar.2021) |
| 6.5.7 | Study on access control for management service | FS\_MNSAC | 890016 | Nokia | 5% | **30%** | SA#91 (Mar.2021) |