

# SA5 action items

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Original source of this information is 3GPP SA5#150 t-doc [S5-235004](#).

The 3GPP SA5#151 version of the present document captured as [S5-236204](#).

The 3GPP SA5#152 version of the present document captured as [S5-237304](#).

The 3GPP SA5#153 version of the present document captured as [S5-240013](#).

The purpose of this page is to keep track of the WG level Action Items and their resolution

## Open actions

Item	Description	Release	Owner	Status	Target
142e.1	<p>Propose check the LS from RAN3 and see whether there is any impact to SA5 specifications. (<a href="#">S5-222157</a> Reply LS on MDT M6 calculation for split bearers in MR-DC (<a href="#">R3-222868</a>)).</p> <p>RAN3 kindly asks SA5 to update the specifications in accordance with above agreements.</p> <p><i>Note: No reply to RAN3 is required but "RAN3 kindly asks SA5 to update the specifications in accordance with above agreements".</i></p>	Rel-18	All	Open	SA5#150
142e.2	<p>Propose check the LS from GSMA and see whether there is any impact to SA5 specifications. (<a href="#">S5-222556</a> LS on enforcement of maximum number of UEs and maximum number of PDU sessions in a network slice (GSMA))</p> <p>the NG.116 has been updated to add an attribute "maximum number of UEs with at least one PDU session/PDN connection". GSMA NG ENSWI kindly requests 3GPP SA2 and SA5 to take the above into account.</p>	Rel-18	All	Open	SA5#150
146.1	<p>Align the use of managementdata/mgtdata in SA5 specifications. (related tdoc <a href="#">S5-226068</a> / <a href="#">S5-226069</a>)</p>	Rel-18	<a href="#">Olaf Pollakowski, Mark Scott</a>	Open	SA5#150
147.1	<p>action item for SA5 leaders to coordinate the activity to check the relevance of 5G related specification. (<a href="#">S5-233779</a>)</p>	Rel-18	SA5 Leaders	Open	SA5#150
149.1	<p>action item to update SA5 TS 28.552/554 according to SA2 proposals. (<a href="#">S5-233841</a>)</p>	Rel-18	All	Open	SA5#150
149.2	<p>action item to check whether there is overlap with SA5. (<a href="#">S5-233847</a>)</p>	Rel-18	All	Open	SA5#150
149.3	<p>action item to check whether there is overlap with SA5. (<a href="#">S5-234338</a>)</p>	Rel-18	All	Open	SA5#150
149.5	<p>Ensure the TS assignment for WID <a href="#">S5-234825</a> is aligned with the proposal agreed in <a href="#">S5-234365</a></p>	Rel-18	<a href="#">Scott Probasco, Erik Guttman, Leaders</a>	Open	SA5#150
150.1	<p>Check SA2 and SA5 working progress on network provisioning, network performance analysis and identify the relation. (<a href="#">S5-235650</a>/<a href="#">S5-233550</a>/<a href="#">S5-232774</a>)</p>	Rel-18	SA5 leaders, <a href="#">Yizhi Yao, Zhao Song</a>	Open	SA5#152
150.2	<p>Need a way to clearly distinguish MnS specification which is not for MnS (<a href="#">S5-235419</a>)</p>	Rel-18	<a href="#">Olaf Pollakowski, Mark Scott</a>	Open	SA5#152
151.1	<p>Keep an action to check whether there is need for update of SA5 specifications. Triggered by LS-In (<a href="#">S5-236220</a>)</p>	Rel-18	All SA5	Open	SA5#152
151.3	<p>Confirm common guidance on copyright statements to be included in the code files published on Forge (3GPP TS 32.160)</p>	Rel-18	MCC, SA5 leadership	Open	SA5#152

Item	Description	Release	Owner	Status	Target
151.4	Apply consistent copyright statement to ALL code files (YANG and OpenAPI) and ALL releases in Forge	Rel-16, Rel-17, Rel-18	SA5 code moderators ( <a href="#">Balazs Lengyel</a> (Ericsson), <a href="#">Sean Sun</a> (Nokia))	Open	SA5#152
151.5	Evaluate the potential change to make SP slice agnostic in R-18 Triggered by <a href="#">S5-236691</a>	Rel-18	All SA5	Open	SA5#153
153.1	Identify proper way forward for handling Subnetwork recursive name-containment (e.g. clarify in 32.160 that inheritance is not limited to IOC attributes) Triggered by <a href="#">S5-240035</a>	Rel-18	<a href="#">Olaf Pollakowski</a> (Nokia), <a href="#">Balazs Lengyel</a> (Ericsson), <a href="#">Sean Sun</a> (Nokia)	Open	SA5#155
153.2	Correct the example for use of attribute constraints in 32.160 and identify specifications providing constraints on support qualifiers that need to be corrected. Triggered by <a href="#">S5-240087</a>	Rel-18	<a href="#">Balazs Lengyel</a> (Ericsson), <a href="#">Sean Sun</a> (Nokia), <a href="#">Thomas Tovinger</a> (Ericsson)	Open	SA5#154

## Closed actions

Item	Description	Release	Owner	Status	Closed
92.3	Update draft TS of TS 28.601 to remove the editor's notes, and send for email approval	Rel-12	Gang Chen	Closed	SA5#92
92.4	Update draft TS of TS 28.611 to remove the editor's notes, and send for email approval	Rel-12	Gang Chen	Closed	SA5#92
93.2	Facilitate the detection of conflict between CRs	All	SA5 Chair	Closed (handed over to OAM and CMAN SWGs)	SA5#94
93.1	Add IS-SS link management to SA5 working procedure	TBD	SA5 Chair	Closed	SA5#95
94.2	Create the framework to indicate which specs are applicable for Converged Management. One potential solution may be to capture this information in 32.101/103, and remove the relevant/redundant statement from 28 series. Coordination with action 94.3 is needed.		Anatoly Andrianov	Closed	SA5#95
94.3	Create the framework to indicate which specs are applicable for Network Sharing. One potential solution may be to capture this information in 32.101/103. Coordination with action 94.2 is needed.		Padma Sudarsan	Closed	SA5#95
95.1	Cross check 28 series specs to find if any of them still uses separate table for state management related attributes.	Rel-11 Rel-12	CMAN Chair (Thomas Tovinger)	Closed	SA5#97
90.2	Contact BBF (informally) about status of alignment on performance measurements (original LS S5-121387 out to BBF )	TBD	SA5 Chair	Closed Note: reply not received	SA5#97
96.1	Remove the editor's notes in TS 28.672 (originated from S5-144049)	Rel-11 Rel-12	Padma Sudarsan	Closed	SA5#97
97.1	Cross check 32.592/6 about the relations with LS from BBF on TR-196i2	All	Padma Sudarsan	Closed	SA5#98
92.2	Clarify the guidance for mapping of inherited attributes in SS for 28 series (whether the inherited attributes are repeated in SS mapping table and idl)	Rel-11/12	CMAN Chair (Thomas Tovinger)	Closed at #99 Guidance is ready.	SA5#98
93.3	A mapping table and extension rules for XML Solution Sets should be proposed.	Rel-11	All (transferred from CMAN SWG)	Closed (without resolution) at #99	SA5#98

Item	Description	Release	Owner	Status	Closed
96.2	Check the consistency of PLMN ID definition in ALL SS (originated from S5-144376).	Rel-11 Rel-12	all	Closed (without resolution) at #99	SA5#98
92.1	Remove the service trace features from Rel-11 after the corresponding specs are upgraded to	Rel-12. Rel-11	Anatoly Andrianov	Closed at SA5#100 CRs agreed	SA5#100
99.1	VNF PM&FM flow options in NFV management (triggered by S5A-152072)	Rel-13	Nokia Networks (Anatoly Andrianov)	Closed Contribution sent to ETSI NFV IFA	Feb.24 2015 (for NFV joint meeting in Feb.27 2015)
99.2	Interface assembly for standardization (S5-151366)	Rel-13	HUAWEI (Zou Lan), Ericsson (Edwin Tse)	Closed Contribution sent to ETSI NFV IFA	Feb.24 2015 (for NFV joint meeting in Feb.27 2015)
99.3	Work split and interface involvement (S5-151363, S5-151358)	Rel-13	OAM SWG Chair (Yizhi Yao), HUAWEI (Zou Lan),	Closed Contribution sent to ETSI NFV IFA	Feb.24 2015 (for NFV joint meeting in Feb.27 2015)
93.5	General AP for the group to check the necessity of "id" for all the 28/32 series IOCs (general OAM action item)	Rel-12	OAM SWG	Open (transferred from CMAN SWG) Closed at SA5#101: without contribution	SA5#101
101.1	Double check copy right issue with Quest forum	Rel-13	Ericsson	Closed. (No copyright issue)	SA5#102
99.4	Guidance for making references to ETSI NFV MANO GS in TR 32.842	Rel-13	OAM SWG Chair (Yizhi Yao)	Closed. (Guidance is not needed anymore)	SA5#102
94.1	Study how to check the consistency of CRs on same specs (with the help of MCC). Note: the spec number, release etc information will be mandatory for the CRs for SA5#99.	All	OAM and CMAN SWG Chair (took over from SA5 Chair)	Closed (this is already done according to the usual process)	SA5#103
85.14	In a future update of 28.663, remove the space in the name space "xmlns:gr=http://www.3gpp.org/ftp/specs/archive/32_series/32.796#genericRanNrm". Linked to AI 93.1.	Rel-11	Rapporteur (Ericsson)	Closed	Done in CRs S5- 156092 and S5-156093
95.5	On Clause 13 of TR 32.838 : Refers to Auto Inventory, these three items need checking	Rel-12	Rapporteur (Huawei)	Closed	Clause 13 is completed
103.2	Define naming conventions for requirement tags consistent for all new NFV specifications.	All	All	Closed	SA5#105
103.1	Gap analysis between ONF documents on information modeling and related SA5 documents based on Multi-SDO outputs. See S5-155089.	All	All	Closed	SA5#106
106.1	NFV Rapporteurs to update existing text in SA5 draft TSs based on the agreement: NS for ETSI Network Service and 3GPP service for 3GPP. Note: All future contributions should follow this agreement.	Rel-14	NFV Rapporteurs	Done. Closed	SA5#107

Item	Description	Release	Owner	Status	Closed
106.2	<p>NFV Rapporteurs to check and potentially update SA5 NFV WIDs to ensure that they are aligned with approved cooperation guidelines between SA5 and ETSI ISG NFV, and that there is no overlap or inconsistency with ETSI specifications. NFV Rapporteurs to check the following in the existing text in SA5 draft specifications:</p> <p>1) Everything is consistent with the revised WIDs (if revised).</p> <p>2) Whenever SA5 specs are using information defined in ETSI NFV specifications they should refer to the relevant ETSI specifications.</p> <p>3) Requirements taken from ETSI specifications but written in different form should be aligned with ETSI specifications. Changes of ETSI requirements should be justified and documented in SA5 TSs. They should then be communicated to ETSI for discussion.</p> <p>Note: All future contributions should follow this agreement.</p>	Rel-14	NFV Rapporteurs	Done. Closed	SA5#107
87.1	For S5-130083 - Check latitude and longitude, why they are missing in the XML name space as noted in yellowed text.	Rel-12	Ericsson	CRs approved at this meeting. Done. Closed	SA5#107
87.3	For S5-130083 - Yellowed text (other than noted in AI 87.1 and 87.2) to be checked and updated if possible, otherwise moved to the Action list.	Rel-12	Ericsson	CRs at this meeting (hoppingSequenceList). Done. Closed	SA5#107
100.1	Provide contribution to address the issues in S5-152061 (LS from RAN2 on RSRQ measurements): how trace collecting entity knows the RSRQ type	Rel-13	OAM&P SWG	Closed	SA5#109
108.1	No need to add "Procedure of "for every procedure sub clause title. Same comment for "Use case of" for every use case sub clause title. Rapporteur will check and prepare a pCR for this fixing.	Rel-14	NFV FM Rapporteur (Huawei)	Closed	SA5#109
108.2	It is necessary to identify the terminologies in draft TS that are related to legacy PM functions, and update them to the terminologies agreed by the group.	Rel-14	NFV PM Rapporteur (Intel)	Closed	SA5#109
93.4	The interpretation of "Null" combined with an empty list, for a multi-valued attribute (like the lubLink in TN NRM) which has isNullabe=True. Consider to create a "User's guide" for this.	Rel-11	Thomas	CR approved at SA5#110: S5-166215	Closed
94.1	Check inheritance rules for contained IOCs – whether contained IOCs are included in the inheritance (related to S5-140524)	Rel-12	Jean-Michel	3 CRs approved at SA5#110: S5-166063, S5-166064, S5-166065 Closed	SA5#110
109.1	Group discussed and agreed the methodology approach addressing documentation of actors, their roles and telecommunication resources in draft TS 25.525. This is also applicable to CM, PM and FM corresponding specifications. NFV rapporteurs to provide related pCRs.	Rel-14	NFV Rapporteurs	Closed	SA5#112
110.1	<p>NFV rapporteurs to check and update if needed the text in the scope of all NFV specifications.</p> <p>For example, change "Configuration Management (CM) of virtualized network functions which can be part of EPC or IMS." to "Configuration Management (CM) of mobile networks that include virtualized network functions which can be part of EPC or IMS."</p>	Rel-14	NFV Rapporteurs	Closed	SA5#112
111.2	All rapporteurs of TSs 28.5xx to check in their respective TSs that all references to ETSI NFV GSs are present and up to date – cf. S5-171210.	Rel-14	NFV Rapporteurs	Closed	SA5#112
111.1	Allow inheritance from ManagedFunction in XML Soution Sets (related to NFV stage 3). Triggered by S5-171196.	Rel-14	Anatoly, Edwin, Yizhi	Closed	SA5#113

Item	Description	Release	Owner	Status	Closed
112.1	Align the terminology used to represent the measured object of the VR related performance measurements over ltf-N.	Rel-15	PM NFV Rapporteur, All	Closed	SA5#113
113.1	Provide a CR against TS 32.156 Correcting the definition of the realization relationship	Rel-15	Orange, Ericsson, Intel	Closed	SA5#113
97.1	Next steps for 32.151, 32.152, 32.156, and 32.157 – consider the overlap.	Rel-13	Thomas	Closed	SA5#115
108.3	Provide contributions to address the request in the LS from ATIS to SA5 on Establish a Metric to Determine a Drop in Registered Users in an IP-Based Network (S5-164107)	Rel-14	All	Closed	SA5#115
114.4	Create CRs to update references. See S5-174067 LS from ETSI NFV to SA5 on Progress on ETSI NFV APIs specifications for Management and Orchestration interfaces.	Rel-15	NFV rapporteurs	Closed at SA5#117	SA5#117
115.1	For next meeting, update draft CR 32.425 Add PEE measurements for E-UTRAN, with some Use Case description in Annex A of 32.425.	Rel-15	Jean-Michel	Closed at SA5#117	SA5#117
115.2	Rapporteur of TR 32.857 to confirm the number of required measurement sets and include a clarification statement into the TR.	Rel-15	Vladimir	Closed at SA5#117	SA5#117
115.3	Rapporteur of TR 32.857 to clarify and confirm on whether NB-IoT devices are included under the "Non-eMTC" category of devices.	Rel-15	Vladimir	Closed at SA5#117	SA5#117
114.1	Consider a CR against 21.905 to update the definition of 3GPP system (add NR, clarify that WLAN is not part of 3GPP system).	Rel-15	Christian	Closed. SP-180179 approved at SA#79.	SA5#119AH
117.2	Converge on naming conventions for management services.	Rel-15	Rapporteurs	Closed	SA5#119AH
119.4	The measurements between PGW-C and PGW-U and measurements between SGW-C and SGW-U should be defined within work item of Management Enhancement for EPC CUPS.	Rel-15	CUPS rapporteur	Closed	SA5#121
122.1	Need to define xNF in TR 28.900 (from S5-187261)	Rel-15	TR Rapporteur	Closed	SA5#123
90.1	Clarify the "Import" semantics in IS - Identified from 6.3 (CR session)	All	Edwin, Yizhi	pCR to draft CR on 32.157 agreed at SA5#108. Need to assess impact on all IRP ISs (from Rel-14). Closed – to be considered by all TS rapporteurs when using the new template for 5G.	SA5#124
112.2	Investigate open source potential impacts on SA5.	Rel-15	All	Closed – considered in the ongoing ONAP studies.	SA5#124
121.1	Action triggered by S5-186061. Analyze S5-186061 and prepare a reply to ITU-T SG2 REST-based network management framework	Rel-16	Nokia, Ericsson	LS sent at SA5#122. Closed	SA5#125
122.5	TS 28.532: Revise clause 9.3.2.6 where it should read "/subscriptions"	Rel-15	All	Closed. SP-181045 corrects the issue.	SA5#125
122.2	TS 28.532: Global check wrt. unsubscribe vs. unSubscribe operation name	Rel-15	All	Closed at SA5#125AH. Addressed by S5-194413 and S5-194414.	SA5#125AH

Item	Description	Release	Owner	Status	Closed
125.1	Based on discussion (S5-193273) around where RRMPolicy types (today placed in gNBCU) shall be placed (gNBDU/gNBCU/gNBCUUP/gNBCUUP) in future. AP to Ericsson/Huawei to come up with a discussion paper where RRMpolicies for different radio resources (PRB, PDCP, NR of users etc) shall be placed, and provide a LS to RAN group(s) and ask if they agree to proposal.	Rel-16	Ericsson & Huawei	Closed at SA5#125AH. LS to RAN groups in S5-194458.	SA5#125AH
120.3	Action triggered by S5-185364: Produce CR(s) to align Stage 3 TSs with any corresponding Stage 2 TS changes agreed during SA5#120 after the Stage 3 specification was produced.	Rel-15	TS rapporteurs	Finished in SA5#126. Closed	SA5#126
125AH.1	Create a mirror CR of S5-194412.	Rel-16	Ericsson	Finished in SA5#126. Closed	SA5#126
125AH.4	Pack conditional agreed stage 2 CRs with stage 3 definition and submit to next meeting.	Rel-16	All	Closed	SA5#126
114.3	Create CRs to replace NR with NCR. See S5-174062 LS from RAN2 to SA5 on changing the Neighbour cell Relation acronym to "NCR".	Rel-15	Zhulia	Partially addressed at SA5#117, SA5#118 and SA5#119. Related tdocs from Ericsson are approved in SA5#127 resolving NR->NCR, removed NR as New Radio, re-defined NR as network resource. Closed in SA5#128	SA5#128
117.1	Fix actors and roles in the use cases for all 5G specifications.	Rel-15	Rapporteurs	Open Closed in SA5#128	SA5#128
118.1	Align terms in all 5G specs with definitions in TS 28.533.	Rel-15	Rapporteurs	Open Closed in SA5#128	SA5#128
118.2	Ensure that all the use cases in TS 28.531 are aligned with S5-182478.	Rel-15	All	Open The state diagram is removed in S5-196782. Closed in SA5#128	SA5#128
119.2	Update the attribute's property's setting ("T" and "F") according to agreed output of S5-183430	Rel-15	Rapporteur	Open Tdoc available in in SA5#127 Closed in SA5#128	SA5#128
120.1	Action triggered by S5-185278: send a LS to RAN3 to list SA5 requirements on new measurements.	Rel-16	ZTE, CMCC	Open RAN2 has already agreed a WI to address the measurement issue. Closed in SA5#128	SA5#128
121.2	Action triggered by S5-186212. Produce CR/pCRs(s) to replace 'MS' by 'MnS' in all Rel-15 and Rel-16 (if any) TS/TRs where 'MS' stands for 'Management Service'.	Rel-15	TS rapporteurs	Done for 28.531 and 28.533. Open 28.532, 28.545 and 28.550 are checked with no problems. Closed in SA5#128.	SA5#128
123.1	Following discussion on Tdoc S5-191147, revisit the structure of TS 28.552 (spit, no-split, options).	Rel-16	Zou Lan	Discussion paper endorsed at SA5#124. Open Tdoc available in SA5#127 Close.	SA5#127

Item	Description	Release	Owner	Status	Closed
125AH.3	Consider the impacts or replacing the term SLA with SLS in all concerned specifications.	Rel-16	All	Open Tdoc available in SA5#127 Relation between SLA and SLS is clarified and captured in 28.533, no need to replace SLA with SLS. Close.	SA5#127
126.1	Improve the definition of Network Resource. Related to S5-195478.	Rel-16	Rapporteur TS 28.622	New Tdoc available in SA5#127. Close.	SA5#127
126.2	Stage 3 owners will fill gap between stage 3 and stage 2 before SA#127 meeting, since SA#127, the CR author of Rel16 NRM have baseline to implement stage 3 for any new stage 2 CR.	Rel-16	All	New XML Tdoc available in SA5#127 Tdocs are agreed in SA5#127. Close	SA5#128
122.3	TS 28.532: Provide guidelines on versioning of management services in Stage 3 (e.g. some URI templating with a rule how to construct the version string from the TS version number)	Rel-15	Olaf, Edwin, Xuruiyue	Open S5-202230/S5-202231 are submitted to SA5#130e. Closed	SA5#130e
122.4	TS 32.158: Provide recommendation for URI construction (cf. issue on DN prefix) and update 28.532 accordingly in all places.	Rel-15	Olaf	Open The URI construction has been approved and captured in 32.158 already. Tdoc in SA5#127 (S5-196451) was not pursued. SA5#128 tdoc (S5-197429) to be discussed. S5-197762 as revision of S5-197429 is approved. S5-202233/S5-202234 are submitted to SA5#130e. Closed	SA5#130e
123.2	Related to contribution S5-191226, propose resolution of the Editor's note in X4.3.a.2 of 32.160	Rel-16	Jan	Open SA5#128 tdoc (S5-197250) to be discussed. S5-197772 was agreed in SA5#128. Closed	SA5#128
125AH.2	KPI definitions uses 32.404 template for Measurement, i.e. C.x.y. Measurement Name (clause header) a) Description b) Collection Method c) Condition d) Measurement Result (measured value(s), Units) e) Measurement Type f) Measurement Object Class But many KPI definitions done/agreed so far do not fill item-f properly. Corrective action is needed.	Rel-16	All	Open Tdoc available in SA5#127 New tdoc in SA5#128 Closed.	SA5#128
127.1	Produce a super CR to TS 28.552 to include all the modification for clause 5.1 in SA5#128.	Rel-16	Jiaxiaoqian	Open Closed.	SA5#128
127.2	Investigate if there is an issue due to the information in the LS reply of (S5-196517 and S5-196518), which needs some clarification of updates of some TSs	Rel-16	Anatoly,Edwin, Xuruiyue	Open S5-202236 submitted to SA5#130e to address this issue. Closed	SA5#130e
128.1	AP for Ping Jing to organize a call to discuss slice concept before SA5#129.	Rel-16	Ping Jing	Open Closed	SA5#130e

Item	Description	Release	Owner	Status	Closed
129e.1	clarification on the network slice related identifiers e.g. relation between SA2 NSI ID and SA5 network slice instance ID in NRM, etc.)", and clarify network slice and network slice instance definitions in 28.530 as well as looks that's the root source of the confusion.( related tdocs S5-201114,S5-201115, S5-201111, S5-201112) Investigate if the NSI ID is used properly in stage 3 operations. Today in the spec, the NSI ID seems to be used as the DN of an operation and if so, that is wrong.	Rel-16	Pingjing, Deepanshu, Attila, Olaf, Edwin	Open Group of tdocs are submitted to SA5#130e. MAINT GROUP#11 (S5-202190/S5-202191/S5-202192/S5-202193/S5-202194/S5-202195 /S5-202145/S5-202146/S5-202278/S5-202279/S5-202280) Closed	SA5#130e
129e.2	Clarify the definition and solution for MnS with CRUD operations for different management purposes (e.g. Node configuration, PM control, NotificationSubscriptionControl). (related tdoc S5-201319)	Rel-16	Xuruiyue, Olaf, Edwin	Open Group of tdocs are submitted to SA5#130e. 6.3- MAINT, GROUP#5 (S5-202088/S5-202089/S5-202226/S5-202227/S5-202228/S5-202229). Closed.	SA5#131e
129e.3	The existing RRMPolicyRatio (including 5 attributes: quotaType, rRMPolicyMaxRatio, rRMPolicyMarginMaxRatio, rRMPolicyMinRatio, rRMPolicyMarginMinRatio) defined in TS 28.541 need to be clarified. (related tdoc S5-201320)	Rel-16	Xuruiyue, Ping Jing, Jan Önnegren	Group of tdocs are submitted to SA5#130e eNRM Group#1 (S5-202033, S5-202034, S5-202297) Closed	SA5#130e
129e.5	network slice isolation attribute(related tdoc S5-201273/S5-201382)	Rel-17	Ping Jing, Shi Xiao Nan, Zhangkai, Deepanshu, Jan Groenendijk, JOSE ANTONIO ORDOÑEZ LUCENA	Open It's decided to move the discussion in Rel-17. Close.	SA5#132e
130e.1	Provide concrete ETSI forge issues to ask help from Michele, For example, changing the name of the project.	Rel-16	SA5 leaders	Open Endorsed document S5-204480. Close.	SA5#132e
130e.2	Need to update Rel-16 CR TS 28.628 Modify TOP as parent class to keep the consistency. (related tdocs S5-202203/S5-202206)	Rel-16	Wei Hong Zhu	Open Tdoc submitted to SA5#132e. Closed.	SA5#132e
130e.3	Modify the stage 2 and stage3 inconsistency for "remoteAddress in EP_Common grouping in _3gpp-common-ep-rp.yang" in TS 28.541	Rel-16	Xu Ruiyue	Open Agreed tdoc S5-203186 and endorsed S5-203218 have partially addressed the issue. Close.	SA5#132e
130e.5	Add a new annex with diagram in TS 28.530 to show the relation of SA2 network slice/network slice instance concept and SA5 defined slice subnet concept.	Rel-16	Zhang Kai / Ping Jing / Jan Önnegren / Deepanshu Gautam	Open Agreed tdoc S5-202366, S5-202367 Closed.	SA5#131e

Item	Description	Release	Owner	Status	Closed
130e.6	Action point to check the necessary SA5 CRs to support eCall in IMS over NR (with 5G Core) and to prepare the required CRs (related to S5-202029)	Rel-16	All	Open Closed.	SA5#131e
130e.7	The resource quota (i.e. 'rRMPolicyMaxRatio' 'rRMPolicyMinRatio' and 'rRMPolicyDedicatedRatio' ) is represented by percentage or real number or use both needs to be clarified	Rel-16	Xuruiyue / Jan Önnegren / Ping Jing	Open Agreed tdoc S5-203185. Closed.	SA5#131e
95.1	Resolve the problem with TS 32.107 reference to SID via M-SDO Tdoc number.	Rel-12	Zou Lan	S5-204328, S5-204329, S5-204330, S5-204331, S5-204332 Tdocs submitted to SA5#132e Close.	SA5#132e
129e.4	discussion about the meaning of standards vs. white papers and tutorials (related tdoc S5-201314/S5-201355)	Rel-16	Zou lan, Olaf, Jan Groenendijk	Open S5-205198 is submitted to SA5#133e. Close.	SA5#134e
132e.5	Consider whether XML Solution set to be deprecated	Rel-17	All	Open S5-205199 is submitted to SA5#133e. S5-205354 is endorsed. S5-212027 and S5-212028 are submitted to SA5#136e. Closed.	SA5#133e
133e.1	Consider a new UC template	Rel-17	SA5 Leaders	Open S5-206257 is submitted to SA5#134e. S5-211078 is submitted to SA5#135e. S5-212129 and S5-212131 are submitted to SA5#136e. S5-213414/S5-213268 are submitted to SA5#137e. S5-213455 is agreed in SA5#137e. Close.	SA5#135e
133e.2	Merge the forge procedure with considering 4449 and 5395.	Rel-17	SA5 Leaders	Open Forge process has been merged into working procedure. Close	SA5#134e
134e.1	Update the dynamic5QISet IOC to align with SA2 answer in S5-206018.	Rel-16	Yao Yi Zhi	Open S5-211110 / S5-211112 submitted to SA5#135e. S5-211481/S5-211482 are agreed. Close.	SA5#135e
135e.1	Consider to revise the WID 5GDMS to include the modification of 28.537 (S5-211367)	Rel-17	Brendan	Close S5-212225 is submitted to SA5#136e.	SA5#136e
135e.2	Address Observation #1 from S5-211036	Rel-17	All	Open AI has been addressed via SP-210417 Clarify misleading information in network slicing use cases. Close.	SA#92e

Item	Description	Release	Owner	Status	Closed
135e.3	Address Observation #2 from S5-211036	Rel-17	All	Close. S5-212221 is submitted to SA5#136e. S5-212348 (Rel-15 CR TS 28.541), S5-212349 (Mirror Rel-16 CR) and S5-212350 (Mirror Rel-17 CR) have all been agreed at SA5#136e and approved at SA#91e.	SA5#136e
135e.4	Address Observation #3 from S5-211036	Rel-17	All	Close. S5-212221 is submitted to SA5#136e. S5-212348 (Rel-15 CR TS 28.541), S5-212349 (Mirror Rel-16 CR) and S5-212350 (Mirror Rel-17 CR) have all been agreed at SA5#136e and approved at SA#91e.	SA5#136e
138e.1	CRs (S5-213100/S5-213480) for TS 32.160 are cat-F but they are missing the mirrors in Release 17.	Rel-17	Olaf	Closed. (S5-214099/S5-214095 are agreed in SA5#138e)	SA5#138e
114.2	Check the need for some clean up CR. See S5-174333 LS reply to 3GPP SA5 on Managing EM IP address provided to VNF.	Rel-15	All	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e. SA5#141e: no further feedback in #140e. Close.	SA5#140e
119.3	Fix the hanging paragraphs and use of letters in the sub-clause numbers of the existing (pre Rel-15) text	Rel-15	Trace rapporteur	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e. SA5#141e: no further feedback in #140e. Close.	SA5#132e
120.2	Action triggered by S5-185531: Conduct investigations (bullet 1/2/3 below). Investigation agreement, if any, will be implemented as CR(s) to the to-be-approved Rel-15 TS 28541. 1. Investigate the use of XPATH, instead of DN, as IOC instance identification; 2. Investigate the use of appropriate/consistent style for SA5 YANG models, e.g. rules to use of module/submodule for SA5 defined <>; production of YANG models for other NRM IRPs such as GENERIC NRMs so the NR NRM Yang model can do import (and not making redefinition), etc; 3. Investigate the use of YANG name convention.	Rel-15	Ericsson	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e as Rel-15 TS 28.541 has published. SA5#141e: no further feedback in #140e. Close.	SA5#140e

Item	Description	Release	Owner	Status	Closed
123.3	As informed in the ETSI NFV LS S5-191287, consider upgrade of ETSI NFV IFA /SOL specifications referenced by SA5 specifications to release 3.	Rel-16	All	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e. SA5#141e: no further feedback in #140e. Close.	SA5#140e
130e.4	Check the legal value of error code for all notifications in TS 28.532 (related tdoc S5-202225) Ericsson comment: In S5-202225 why is only the 204: success listed as a result? I imagine other results are also possible. At least add the error result received if notifyMOIChanges is not supported but still received. Also add an error result if ONLY notifyMOIChanges are supported but the 3 individual notifyChanges are not.	Rel-16	Olaf Pollakowski	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e. SA5#141e: no further feedback in #140e. Close.	SA5#140e
130e.8	The fault.yaml needs to be defined in TS 28.532 to complete FM control YAML solution in TS 28.623 (Triggered by S5-202182)	Rel-16	Olaf Pollakowski /Xu Ruiyue	Open SA5#141e: faultMnS.yaml has been captured in TS 28.532. Close.	SA5#141e
132e.1	Clean up functionality in Rel-16 for which there is no support in network traffic function. Provide reply to (S5-204020) later.	Rel-16	Robert	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e. SA5#141e: no further feedback in #140e. Close.	SA5#140e
132e.2	Clean up in Rel-16 for which there is no support. Provide reply to (S5-204021) later.	Rel-16	Robert	Open #139e: suggest to check whether to keep this AI, if no opinions suggest to close this AI in SA5#140e. SA5#141e: no further feedback in #140e. Close.	SA5#140e
134e.2	Add description on the alignment of stage1, stage2 and stage3. SA is discussing the alignment between SA1 requirements and solutions which may be related to this topic. Maybe link SA5 requirements with SA1.	Rel-17	SA5 Leaders, Olaf	Open SA5#141e: There is no more decision from SA on the SA1 requirement alignment. The alignment of SA1 reqs. by company contributions to SA5, or LSs. Close.	SA5#141e
138e.2	AP for Ericsson to propose and discuss update of endorsed tdoc in S5-213134.(S5-214218)	Rel-17	Jan	Open S5-215418 is submitted to SA5#139e. Close.	SA5#139e

Item	Description	Release	Owner	Status	Closed
130e.9	Implement the mechanism to assure the stage 2 and stage3 alignment for one or more solution sets. And decide whether one or more SS has to be provided for every stage 2 items (define the mandatory set). Need to find out what is missing in stage3 first.	Rel-17	Olaf Pollakowski / Leaders / Yi Zhi	Open S5-205199 is submitted to SA5#133e. SA5#141e: 1449 is submitted to #141e. SA5#142e: Stage2 and stage3 alignment principles have been added into SA5 working procedure S5-222010. Closed.	SA5#141e
131e.1	How to handle the alignment of stage 2 and stage 3.	Rel-17	Leaders	Open S5-205199 is submitted to SA5#133e. SA5#141e: 1449 is submitted to #141e. SA5#142e: Stage2 and stage3 alignment principles have been added into SA5 working procedure S5-222010. Closed.	SA5#141e
132e.3	3GPP SA5 to inform ETSI NFV of any further updates to the 3GPP NRM (28.622) if they impact the touchpoints with ETSI. (S5-204019), e.g. before the end of every release	Rel-17	All	Open SA5#141e: Status to be checked. SA5#142e: Rel-17 is completed, no related contributions are submitted. Closed.	Standing
132e.4	Considering an new Liaison to Inform the SA2 and RAN3 about user data congestion working progress in SA5.( S5-204024/ S5-204025)	Rel-17	YiZhi	Open SA5#141e: Status to be checked. SA5#142e: So far there is no user data congestion use case discussed in Rel-17. Closed.	SA5#141e
137e.1	all TS rapporteurs to check in "your TS(s)" where any such terms (i.e. "master/slave" and "white/grey/black list", as listed in the CR attachment in the LS and the latest version of 21.801 Annex Z) may exist, and prepare necessary Rel-17 CRs.	Rel-17	Rapporteurs	Open "S5-213224 CR TS 32.421 Update inclusive language S5-213378 Rel17 CR 28.541 Inclusive language review fixing S5-213213 Rel. 17 CR TS 28.313 Fix non-inclusive languages " submitted to SA5#137e. #140e: Need to check the LS S5-216025 and check whether more specifications are related. SA5#142e: No further related modification proposed. Closed.	SA5#141e

Item	Description	Release	Owner	Status	Closed
137e.3	Consider to work on the addition of "it is enough to have one SS for a stage 2/3 contribution, when one SS is not provided, it is documented " in the working procedures. (S5-213374)	Rel-17	SA5 Leaders	Open #139e: need to consider together with 130e.9 and 131e.1. SA5#141e: Status to be checked. SA5#142e: Stage2 and stage3 alignment principles have been added into SA5 working procedure S5-222010. Closed.	SA5#141e
119.1	MCC to check how and where we could store UML code files for the figures in the specs	Rel-17	MCC/SA5 leaders	Open UML code is stored in Annex of the specifications. Suggest to add separate section description into working procedure. SA5#141e: MCC has created a folder "/Email_Discussions/SA5/SA5 source diagrams" to collect the source diagrams. The source UML code is not needed to be kept in this folder. SA5#144e: Closed. UML code information currently has been captured in corresponding specifications.	SA5#144e
134e.3	Update the specifications for E-UTRAN QMC if needed". (S5-206291)	Rel-17	Robert	Open SA5#144e: Rel-17 is completed. Action Closed.	SA5#143e
136e.1	Improve the use case and requirements in 5.1.3 and 5.1.4 of TS 28.535	Rel-17	Ericsson LM, Deutsche Telekom AG, Huawei	Open SA5#144e: Rel-17 is completed. Action Closed.	SA5#143e
137e.2	Check whether OAM could provide the measurements which needed by CH. (S5-213032)	Rel-17	All	Open SA5#144e: Rel-17 is completed. Action Closed.	SA5#143e
143e.1	There may be confusion when the stage 2 and stage 3 attributes/parameters use different names (e.g. stage 2 uses x2ListBlockList while stage3 uses x2ListBlackList in TS 28.541), check whether there is a solution to avoid the confusion.	Rel-18	All	Closed at SA5#146. Open S5-226204/6205 are submitted to SA5#146.	SA5#150

Item	Description	Release	Owner	Status	Closed
146.2	Include altitude aspect in the GeoArea datatype. (Related to S5-226177)	Rel-18	Siva (Nokia)	Closed The below-approved CRs implement the identified action point. S5 232164 Rel-17 CR TS 28.622 Adding "altitude" to GeoArea datatype S5 232167 Rel-17 CR TS 28.623 Adding "altitude" to GeoArea datatype - Stage 3 S5 232172 Rel-18 CR TS 28.622 Adding "altitude" to GeoArea datatype S5 232174 Rel-18 CR TS 28.623 Adding "altitude" to GeoArea datatype - Stage 3.	SA5#150

Item	Description	Release	Owner	Status	Closed
139e.1	Propose an Async mode design (NRM IOC modeling with what/how many IOC, then design procedure based on the IOC modeling) related to S5-215087/S5-215088	Rel-18	Sean Sun	<p>Closed.</p> <p>#140e: (S5-216252 / S5-216388 / S5-216372 / S5-216390) Asynchronous design tdocs discussed but need more discussion.</p> <p>SA5#142e: S5-222281 / S5-222531 / S5-222533 / S5-222534 / S5-222287 are submitted to #142e.</p> <p>SA5#143e: S5-223218 / S5-223220 / S5-223452 / S5-223453 are submitted to #143e.</p> <p>SA5#144e: Async discussion has moved to Rel-18.</p> <p>SA5#145e: (6.6.2-eNETSLICE_PRO, WoP#1 GROUP#2 (S5-225548 / S5-225547 / S5-225546 / S5-225089 / S5-225088 / S5-225087 / S5-225184 / S5-225180 / S5-225204) asynchronous operations support for network slicing 6.5.3-eECM, WoP#1 GROUP#1 (S5-225346 / S5-225345 /S5-225137) Async support) are submitted to #145e.</p> <p>SA5#146: (eNETSLICE_PRO): 6560, 6530, 6557, 6531, 6110, 6639, 6383, 6132 (ECM): 6229, 6230 are submitted to SA5#146</p> <p>SA5#146bis-e: (S5-231048 / S5-231013) DP on async LCM operations and async network slice provisioning are submitted.</p> <p>SA5#147: (S5-232347 S5-232648 S5-232225 S5-232210 S5-232101 S5-232102 S5-232103 S5-232104 S5-232105 S5-232223 S5-232072 S5-232226 S5-232227) are submitted to SA5#147.</p> <p>SA5#149: S5-234591 / S5-234592 / S5-234590 / S5-234589 / S5-234588 / S5-234587 / S5-233896 / S5-234586) are concluded.</p>	SA5#150
149.4	action item to update the references to NFV MAN. (S5-233833)	Rel-18	All	<p>Closed</p> <p>S5-236482, S5-236483, S5-236484</p>	SA5#151

Item	Description	Release	Owner	Status	Closed
151.2	Update the YAML examples in TS 28.312 according to the latest schema at the end of release. Triggered by S5-236308	Rel-18	Huawei Xu Ruiyue	Closed Two contributions: <ul style="list-style-type: none"><li>• <a href="#">S5-237430</a> (agreed at SA5#152) to align most of the YAML examples</li><li>• <a href="#">S5-240960</a> (agreed at SA5#153) to align the remaining YAML examples</li></ul>	SA5#153