

Collection of SA5 external communications

[[TOC]]

Rationale

There are quite some endorsed documents and agreed documents which are not captured in any specifications or technical reports. It's not easy to find the references as the information is captured in multiple meetings.

SA5 Leadership will maintain this living document to capture the following information:

- Endorsed contributions
- Agreed contributions which are related to external communication with non-3GPP groups

The collection of the above information is currently collected starting from SA5#128. More useful inputs could be added if needed.

Source of this information is:

- 3GPP SA5#150 t-doc [S5-235011](#);
- 3GPP SA5#151 t-doc [S5-236211](#).

The 3GPP SA5#152 version of the present document to be captured as [S5-237312](#).

The 3GPP SA5#153 version of the present document to be captured as [S5-240016](#).

The 3GPP SA5#154 version of the present document to be captured as [S5-241113](#).

Agreed t-docs related to external communications with non-3GPP groups

3GPP SA5#128

T-Doc Number	Title	To	CC
S5-197839	Reply to: LS to SA5 on O-RAN – 3GPP Cooperation on Management Services	SA5	O-RAN Alliance / WG1
S5 197545	LS reply to LS on O-RAN – 3GPP Cooperation on Management Services	SA5	O-RAN Alliance / WG1
S5 197831	LS to ONAP on 3GPP MnS integration with VES	SA5	ONAP

3GPP SA5#131e

T-Doc Number	Title	To	CC
S5-203314	Reply LS to ONAP LS reply to S5-197831	Ericsson	ONAP

3GPP SA5#132e

T-Doc Number	Title	To	CC
S5 204550	Reply to: LS to SA5 on introduction of TM FORUM Autonomous Network Project and Coordination Proposal	Ericsson	TM Forum

S5 204514	Reply to: LS to SA5 on Publication of major ZSM specifications	current meeting	ETSI ZSM
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3GPP SA5#133e

T-Doc Number	Title	To	CC
S5-205348	Reply LS on TM Forum implementation experiences 3GPP NRM Models	TM Forum	SA Reply to S5- 205013

3GPP SA5#134e

T-Doc Number	Title	To	CC
S5-206286	Reply LS on policy models work in ETSI ISG NFV	ETSI ISG NFV	ETSI ISG ZSM, ETSI ISG ENI, ONAP, ETSI OSM Reply to S5-206186
S5-206446	LS on Network Slice EE KPIs	ETSI EE EEPS, ITU-T Q6/5	3GPP SA
S5-206447	LS on Network Slice EE KPIs	GSMA 5GJA	3GPP SA

3GPP SA5#136e

T-Doc Number	Title	To	CC
S5- 212319	Reply LS on New Whitepaper: "Operator Platform Telco Edge proposal" from GSMA	GSMA	3GPP TSG SA WG2, TSG SA WG6
S5- 212328	Reply LS on O-RAN – 3GPP Cooperation on Management Services	O-RAN WG1	
S5- 212310	Reply LS on Progressing the Multi SDO Autonomous Network coordination	TM Forum	3GPP SA, ETSI (AN initiative, ZSM, NFV, ENI, F5G), GSMA, NGMN, CCSA TC7, ITU-T, IETF, IEEE

T-Doc Number	Title	To	CC
S5- 212320	Reply LS to GSMA on NG.116 support of service categories	GSMA 5G Joint- Activity (5GJA)	
S5- 212390	LS to TM Forum on introduction of 3GPP Autonomous Network Levels	TM Forum	3GPP SA,ITU-T (FG-AN), ETSI (AN initiative, ZSM, NFV, ENI, F5G), IETF

3GPP SA5#137e

T-Doc Number	Title	To	CC
S5- 213444	LS S5-213028 on Multi-SDO Autonomous Networks (AN) Formal Liaison: 19th April 2021 Meeting Invitation, agenda, Bridge, and Meeting Schedule from TM Forum	TM Forum	3GPP SA Reply to S5- 213028
S5- 213454	LS on Methodology harmonization and REST-based network management framework	ITU-T Study Group 2	Reply to S5- 213023
S5- 213522	LS to TM Forum on Intent Management	TM Forum Autonomous Networks	

3GPP SA5#138e

T-Doc Number	Title	To	CC
S5- 214514	Reply to Multi-SDO Autonomous Networks (AN) Formal Liaison: Request for review of Letter of Intent and report	WG Chair	TM Forum, ETSI, GSMA, ONAP, NGMN, CCSA, IEEE, IETF, ITU-T
S5- 214535	LS reply to LS reply to 3GPP SA5 on Network Slice EE KPIs	Orange	GSMA 5GJA
S5- 214607	LS to ETSI NFV on MANO performance measurements accuracy to estimate VNF energy consumption	Orange	NFV

3GPP SA5#139e

T-Doc Number	Title	To	CC

T-Doc Number	Title	To	CC
S5- 215083	Reply LS to GSMA on new whitepaper E2E Network Slicing Architecture	GSMA NG	3GPP SA, SA2, RAN
S5- 215481	LS on methodology harmonization update	ITU-T SG2	
S5- 215483	Reply LS on Liaison Multi-SDO Autonomous Networks (AN)	TMF	ETSI, GSMA, ONAP, NGNM, CCSA, IEEE, IETF, ITU-T
S5- 215484	LS to 3GPP OPs on Multi-SDO Autonomous Networks (AN) formal cooperation proposal from TM Forum	PCG	SA
S5- 215486	Reply to TM Forum on Intent Management	TMF	SA
S5- 215530	LS to TMF, MEF and GSMA on overall architecture for network slice ordering, provisioning and assurance	TM Forum, MEF, GSMA	SA
S5- 215539	LS to ITU-T SG2 on autonomous network levels	ITU-T SG2	SA

3GPP SA5#140e

T-Doc Number	Title	To	CC
S5- 216412	Reply to: Resubmitted LS cc SA5 on Prioritized Vehicle to Cloud Technical Solutions	Automotive Edge Computing Consortium (AECC)	3GPP TSG SA, 3GPP SA WG1, 3GPP SA WG2, 3GPP SA WG6
S5- 216419	Reply to: LSout to 3GPP SA5 about MANO performance measurements accuracy to estimate VNF energy consumption	ETSI ISG NFV	SA

3GPP SA5#141e

T-Doc Number	Title	To	CC
S5- 221492	Reply to: LS/r on autonomous network levels (reply to 3GPP TSG SA5-S5-215539)	ITU-T SG2	
S5- 221493	Reply to: Liaison: AN LS22: 0001 TM Forum, AN team Response, to liaison S5-215486	TM Forum	SA

T-Doc Number	Title	To	CC
S5-221502	Reply LS on Recommendation ITU-T M.3381	ITU-T SG2	ITU-T SG5, ITU-R WP 5D, TSG SA
S5-221680	LS on 3GPP SA5 work on 5G network energy efficiency and energy saving	GSMA, NGMN, ITU-T SG5, ETSI TC EE, ETSI ISG NFV	3GPP SA, SA2, RAN

3GPP SA5#142e

T-Doc Number	Title	To	CC
S5-222560	Reply LS on the first deliverable on use cases for autonomous networks from ITU FG-AN (ITU FG-AN) (reply to S5-222141)	ITU-T SG2, SG3, SG5, SG9, SG11, SG12, SG15, SG16, SG17, SG20, CITS, FG-AI4EE, FG-AI4NDM, FG-AI4AD, GSMA, IEEE, ETSI ISG ZSM, ETSI ISG NFV, ETSI TC INT, TM Forum, IETF, IRTF, Linux Foundation Networking, Open Networking Foundation, LF AI & Data Foundation, O-RAN Alliance, NGMN	SA
S5-222570	Reply LS on methodology harmonization update (reply to S5-222170)	ITU-T SG2	
S5-222814	Reply LS to GSMA NG ENSWI on overall architecture for network slice ordering, provisioning and assurance (reply to S5-222140)	GSMA NG ENSWI	SA
S5-222815	Reply LS to TM Forum on overall architecture for network slice ordering, provisioning and assurance (reply to S5-222142)	TM Forum	SA

3GPP SA5#143e

T-Doc Number	Title	To	CC
S5-223522	LS on Study on KQIs for 5G service experience	3GPP SA4, ITU-T SG12	
S5-223525	LS on Inclusive language updates related to BBF TR-196	Broadband Forum (BBF)	

3GPP SA5#144e

T-Doc Number	Title	To	CC
S5- 224100	LS to NGMN GFN and GSMA NG on Customer acceptance of QoS degradation to save energy	NGMN GFN, GSMA NG	SA
S5- 224343	LS on 3GPP SA5 work on intent driven management	TM Forum, ETSI ZSM, ETSI NFV IFA	

3GPP SA5#145e

T-Doc Number	Title	To	CC
S5- 225615	Reply LS on LS/r on methodology harmonization update	ITU-T SG2	
S5- 225599	Reply LS on initiation new work item M.fidtom: ""Framework of intent driven telecom operation and management""	ITU-T SG2	ITU-T SG13, IETF NMRG, TM Forum AN, 3GPP SA
S5- 225602	LS on O-RAN – UML models and tools to be used by 3GPP SA5	O-RAN	3GPP SA, RAN
S5- 225604	Reply LS on Network Slice Ordering, Provisioning & Assurance to MEF Forum	MEF, TM Forum, GSMA	3GPP SA

3GPP SA5#146

T-Doc Number	Title	To	CC
S5-227038	LS reply on customer acceptance of limited QoS degradation to save energy in the network	GSMA NG ENSWI	NGMN GFN
S5-227039	Reply LS on EastWest bound interface telco edge consideration	SA, SA6	SA2

3GPP SA5#147

T-Doc Number	Title	To	CC
S5- 232757	Reply LS on customer acceptance of limited QoS degradation to save energy in the network	NGMN GFN, GSMA ENSWI	3GPP SA
S5- 232759	LS reply to GSMA OPG on UE to application server latency	GSMA OPG	3GPP SA, SA6, GSMA ENSWI

3GPP SA5#148e

T-Doc Number	Title	To	CC
S5- 233276	LS on progress of 3GPP SA5 R18 work on intent driven management	TM Forum, ETSI ZSM, ETSI NFV IFA, ITU-T SG2, ITU FG-AN, GSMA OPG, 3GPP SA2,3GPP RAN3	3GPP SA
S5- 233277	LS on 3GPP SA5 work on intent interface collaboration	TM Forum, ETSI ZSM, GSMA OPG	3GPP SA
S5- 233385	LS to 5G-ACIA on Management of non-public networks	5G ACIA	-
S5- 233543	Reply to: LS on publication of GSMA OPG and OPAG documents	GSMA	-
S5- 233545	Reply to: LS on work progress of M.fidtom, "Framework of intent driven telecom operation and management" (reply to 3GPP TSG SA5-S5-225599).	ITU-T SG2	SA
S5- 233613	Reply to: Resubmitted LS on O-RAN - Applicability of TS 32.404 in NR	O-RAN	SA
S5- 233711	Reply to: LS on the Consent of draft Recommendations ITU-T M.3384 (ex. M.il-AITOM) and M.3385 (ex. M.ilef-AITOM)	ITU-T	SA
S5- 233712	Reply to: LS on initiation of a new work item M.eiil-AITOM, "Effectiveness indicators of intelligence level for AI enhanced telecom operation and management"	ITU-T	SA

3GPP SA5#149e

T-Doc Number	Title	To	CC
S5- 234452	Reply LS to C4-225411 = S5-233195 on Enhancement on Charging Identifier Uniqueness Mechanism (to: CT4; cc: CT3; contact: Ericsson)	CT4 CT3	-
S5- 234453	Reply LS to GSMA LS S5-233853 on Slice based (wholesale) differentiation and charging in roaming (to: GSMA NG ENSWI; cc: GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2; contact: MATRIXX Software)	GSMA NG ENSWI	GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2

T-Doc Number	Title	To	CC
S5-234547	Reply LS to ITU-T SG13 LS S5-233844 on Information and request of advice on the SG13 plan to initiate a new work item on "Requirements and framework of network function enhancements of IMT-2020 networks and beyond from the energy efficiency perspective" (to: ITU-T Q20/13; cc: SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN; contact: Huawei)	ITU-T Q20/13	SA1, ITU-T SG5, ITU-T SG11, ETSI NFV, NGMN
S5-234594	Reply LS to ETSI TC EE(23)000005 = S5-234441 on Information on ETSI EE monitoring standard and support from 3GPP SA5 (to: ETSI TC EE WG2; cc: ITU-T SG5 Q6, NGMN Green Future Networks; contact: Huawei)	ETSI TC EE	ITU-T SG5 Q6, NGMN Green Future Networks
S5-234651	Reply LS to ITU-T SG13-LS80 = S5-233843 on Y.3159 "Framework for classifying network slice level in future networks includin"g IMT-2020" (to: ITU-T SG13/Q21; cc: SA2, GSMA; contact: BT)	ITU-T SG13/Q21	SA2, GSMA
S5-234824	Reply LS to O-RAN_WG9_S-2022003 =S5-233850 and O-RAN_WG9_S-2023005 = S5-234493 on O-RAN – Transport Network Slicing Enhancement IM/DM TS28.541 (to: cc: SA, SA3, RAN; contact: Ericsson)	O-RAN WG9	SA, SA3, RAN
S5-234697	Reply to ETSI ISG ZSM(23)000104r1 = S5-234663 on enhanced intent driven management services for mobile networks (to: ETSI ISG ZSM; cc: -, contact: Huawei)	ETSI ISG ZSM	-

3GPP SA5#150

T-Doc Number	Title	To	CC	Reply to
S5-235454	Reply LS to SA2 on improved KPIs involving end-to-end data volume transfer time analytics	SA2	-	S5-235041
S5-235364	Reply to LS on customer acceptance of limited QoS degradation to save energy in the network	SA1	SA, SA2	S5-235038
S5-235542	Reply LS on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload	RAN3	-	S5-235028
S5-235729	Reply LS MDAF service discovery by NWDAF	SA2	-	S5-235044
S5-235752	LS on charging aspects of AI/ML traffic	SA2	-	S5-235042

T-Doc Number	Title	To	CC	Reply to
S5-235769	LS on documenting code changes in FORGE	SA	CT, CT1, CT3, CT4, SA4	-
S5-235771	LS reply to LSout to 3GPP SA5 about status of FEAT24 "VNF-OAM" development by ETSI NFV	ETSI ISG NFV	-	S5-235025
S5-235772	Reply LS on Approval of eQoE CRs for NR	RAN2	RAN3, SA4, CT1, CT4	S5-235026
S5-235774	Reply to: Response to Reply LS on Support of network slices which have area of service not matching deployed tracking areas	RAN3,SA2	-	S5-235032
S5-235775	Reply LS on Multiple TraceMDT configurations	3GPP RAN3	3GPP SA2	S5-235035
S5-235776	Reply LS on OAM input data for QoS Sustainability Analytics	3GPP SA2	-	S5-235043
S5-235777	Reply to LS on AI/ML for NG-RAN Energy Saving Energy Cost index	RAN3	-	S5-235036
S5-235778	Reply to LS on 3GPP work on energy efficiency	SA4	SA, SA1, SA2, SA3, SA6	S5-235046
S5-235779	Reply to LS on initiation of new work item ITU-T Q.PMEE "Protocol for managing energy efficiency with AI-assisted analysis in IMT-2020 networks and beyond"	ITU-T SG11	ITU-T SG5, SG13	S5-235050
S5-235780	LS on Enhancement on the attribute for 5GLAN management	3GPP CT4	3GPP SA2	-
S5-235781	Reply to: LS on collecting QoE measurements per MBS service area and MBS session ID	RAN3	RAN2	S5-235031
S5-235782	Reply to: LS on area scope for QoE measurements	RAN2	SA4, RAN3	S5-235027
S5-235855	LS on documenting code in Forge-GitLab	CT4	CT1, CT3, SACT1, CT3, CT, SA4,SA	-

T-Doc Number	Title	To	CC	Reply to
S5-235800	LS to GSMA WSOLU on 5G charging architecture for roaming scenarios phase 2	GSMA WSOLU	3GPP SA2, GSMA NG, GSMA IDS	-

3GPP SA5#151

T-Doc Number	Title	To	CC	Reply to
S5-236547	Reply LS to ZSM Work on AI enablers and intent-driven autonomous networks	ETSI ISG ZSM	-	S5-236233
S5-236896	Reply to: Reply LS on CHF Logic Realization wrt/ Spending Limits functionality	SA2	-	S5-236230
S5-236928	LS on user consent of Non-public Network	RAN3	RAN2, SA3	R3-226006
S5-236930	Reply to Liaison Statement from ETSI EE PS	ETSI EE EEPS	ITU-T SG5, 3GPP SA	S5-236221
S5-237241	LS on REI-18 work on architecture for enabling Edge Applications	SA6	-	S5-236236

3GPP SA5#152

T-Doc Number	Title	To	CC	Reply to
S5-238140	Reply LS to LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic	SA, SA3	-	S5-237343
S5-238099	Reply to: Reply LS on Enhancement on the attribute for 5GLAN management	CT4	SA2	S5-237321 / C4-234414
S5-238098	Reply to: Reply LS on area scope for QoE measurements	RAN2	RAN3, SA4	S5-237324 / R2-2311400
S5-238102	Reply to: LS on user consent for SON/MDT for NB-IoT Ues	RAN2	SA3	S5-237336 / R2-2309030

T-Doc Number	Title	To	CC	Reply to
S5-238103	Reply to: LS on QoE measurement collection for application sessions delivered via MBS broadcast or multicast	SA4, RAN3	-	S5-237338 / R3- 233457
S5-238106	LS to SA2 on network energy related information exposure	SA2	SA, SA1	-
S5-238162	Reply LS on S5-237345 Publication of ETSI NFV specification on Intent Management Service Interface and Intent Information Model	ETSI ISG NFV	TM Forum, ETSI ISG ZSM, ETSI ISG ENI, LFN, O-RAN Alliance, ITU-T SG13	S5-237345
S5-237440	Reply LS on S5-237344 LSout about PIM specification development by ETSI NFV	ETSI ISG NFV	-	S5-237344
S5-238101	Reply LS on MDT for NPN	RAN3	RAN2, SA3	R3- 234744
S5-238107	LS on the progress update of AI/ML Management specifications in SA5	RAN1, RAN2, RAN3, SA2	SA1, SA, RAN	-
S5-237633	Reply LS on Multiple TraceMDT configurations	RAN3	-	R3- 235882
S5-237698	Reply to Liaison Multi-SDO Autonomous Networks (AN) Formal Liaison: Call for Candidate Proposals for AN SDO Information Sharing	TMF	??	-
S5-238096	LS reply on inputs for mapping GSMA OPG architecture roles with 3GPP defined Edge architectures	SA6	-	S5-237333 (S6- 233417)
S5-237941	LS on issues with Packet Uu Loss Rate with delay threshold in the DL per DRB per UE	RAN2	SA, RAN3	-

3GPP SA5#153

T-Doc Number	Title	To	CC	Reply to
S5-240021	Reply LS on Support for MCE ID	RAN3	RAN2, SA2	R3- 238003

T-Doc Number	Title	To	CC	Reply to
S5-240076	LS reply to LS on Reply LS on documenting code normatively in 3GPP Forge	SA4	SA	S5-240446 (S4-231915)
S5-240339	LS on progress of 3GPP SA5 R18 and R19 work on intent driven management	TM Forum, ETSI ZSM, ETSI NFV IFA, ITU-T SG2, ITU-T SG13, GSMA OPG	SA	-
S5-240386	LS Reply to LS SG13-LS110 on the consent of draft new Recommendation ITU-T Y.3161 (ex ITU-T Y.IMT2020-IBNMO)	ITU-T SG 13	3GPP TSG SA, ITU-T SG2, SG11, ETSI ISG ZSM, IRTF NMRG	S5-240686
S5-240387	LS reply to LS sp17-sg2-oLS-00080 on work progress of M.fidtom Framework of intent driven telecom operation and management	ITU-T SG2	3GPP TSG SA	S5-240436 (sp17- sg2-oLS- 00080)
S5-240793	LS reply to ITU-SG2 on sp17-sg2-oLS-00088	ITU-T Study Group 2	ITU-T Study Group 13	S5-240435 (sp17- sg2-oLS- 00088)
S5-240794 e-mail approval	Reply to: LS on alignment of 3GPP EDGEAPP, ETSI MEC and GSMA OP architectures	SA6	-	S6-234028
S5-240798	Reply to: Reply LS on Multiple Trace/MDT configurations	RAN3	RAN2	R3-235882
S5-240807	LS on energy states in TS 22.261	3GPP SA1	3GPP SA, 3GPP SA2	-
S5-240816	LS on new definitions of energy efficiency and energy consumption	3GPP SA1, SA2, RAN1, RAN2, RAN3	3GPP SA	-
S5-240910	LS to 5G-ACIA on Management of non-public networks	5G-ACIA	3GPP SA, 3GPP SA2	-
S5-241029	LS reply to LS on Further reply LS on Cell ID (re)configuration for mobile IAB cell	RAN3	-	R3-235921

T-Doc Number	Title	To	CC	Reply to
S5-241031	Reply to: LS to ETSI ISG NFV on possible workshop	ETSI ISG NFV	-	S5-240865
S5-241051	LS on Trace functionality extension in N3IWF for non-3GPP access scenarios	RAN3	RAN2	-
S5-241059	LS to ETSI NFV on metrics to estimate containerized VNF energy consumption	ETSI NFV	3GPP SA	-
S5-241079	Reply to: LS to SA, SA3 and SA5 on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG	SA	-	S5-240471
S5-241076 e-mail approval	Reply to: Reply LS on LS on AI/ML for NG-RAN Energy Saving Energy Cost index	RAN3	-	R3-235743
S5-241084	Reply LS on the user consent for trace reporting	RAN3	SA1, RAN, RAN2, SA2, SA3	R3-237964
S5-241086	Reply LS on improved KPIs involving end-to-end data volume transfer time analytics	SA2, CT3, CT4, RAN2, RAN3	-	S5-240453 (S2-2313635)

3GPP SA5#154

T-Doc Number	Title	To	CC	Reply to
S5-241920	Reply to: LS on Creation of private branches on the GitLab "5G_APIs" repository	CT4		S5-241315 / C4-240636
S5-241921	Reply to: LS on GSMA OPG PRDs publication	GSMA OPG		S5-241339
S5-241922	Reply to: LS to 3GPP_Reservation of Edge Resources (SA5#153)	GSMA		S5-241341
S5-242221	Reply LS on the user consent for trace reporting	RAN3		S5-241321 / R3-241115
S5-242038	LS on MBS Communication Service Type	CT4	RAN3	
S5-241924	LS Reply to SA4 on Reply to LS on 3GPP work on energy efficiency	SA4		S5-241331 / S4-240517

T-Doc Number	Title	To	CC	Reply to
S5-241925	Reply to: Reply LS on area scope handling for QoE measurements	RAN2		S5-241316 / R2- 2401658
S5-241927	Reply to: LS on MDT measurements collection in MR-DC (SA5#149)	RAN3		S5-241343 / R3- 232070
S5-241930	Reply LS on "Signalling and protocol for Digital Twin Network"	ITU-T Study Group 11		S5-241344
S5-242198	LS reply on OAM requirements for UE location verification	RAN3		S5-241318 / R3- 238056
S5-241777	Reply LS to SA2 on OAM input data for QoS Sustainability	SA2		S5-241324 / S2- 2401475
S5-241836	Reply to: LS to 3GPP_Correlation information for API volume based charging (SA5#153)	GSMA		S5-241342