

# SA5 External Communications

## Collection of SA5 external communications

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- [Collection of SA5 external communications](#)
  - [Rationale](#)
  - [Agreed t-docs related to external communications with non-3GPP groups](#)
    - [3GPP SA5#128](#)
    - [3GPP SA5#131e](#)
    - [3GPP SA5#132e](#)
    - [3GPP SA5#133e](#)
    - [3GPP SA5#134e](#)
    - [3GPP SA5#136e](#)
    - [3GPP SA5#137e](#)
    - [3GPP SA5#138e](#)
    - [3GPP SA5#139e](#)
    - [3GPP SA5#140e](#)
    - [3GPP SA5#141e](#)
    - [3GPP SA5#142e](#)
    - [3GPP SA5#143e](#)
    - [3GPP SA5#144e](#)
    - [3GPP SA5#145e](#)
    - [3GPP SA5#146](#)
    - [3GPP SA5#147](#)
    - [3GPP SA5#148e](#)
    - [3GPP SA5#149e](#)
    - [3GPP SA5#150](#)

### Rationale

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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](#).

The 3GPP SA5#151 version of the present document to be captured as [S5-236211](#).

## 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

### 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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
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**

<b>T-Doc Number</b>	<b>Title</b>	<b>To</b>	<b>CC</b>
S5-225615	Reply LS on LS/r on methodology harmonization update	ITU-T SG2	

T-Doc Number	Title	To	CC
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

T-Doc Number	Title	To	CC
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.eil-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: MATRIX Software)	GSMA NG ENSWI	GSMA WAS, GSMA IDS, GSMA NRG, SA, SA2
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 including 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
<a href="#">S5-235454</a>	Reply LS to SA2 on improved KPIs involving end-to-end data volume transfer time analytics	SA2	-	<a href="#">S5-235041</a>
<a href="#">S5-235364</a>	Reply to LS on customer acceptance of limited QoS degradation to save energy in the network	SA1	SA, SA2	<a href="#">S5-235038</a>
<a href="#">S5-235542</a>	Reply LS on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload	RAN3	-	<a href="#">S5-235028</a>
<a href="#">S5-235729</a>	Reply LS MDAF service discovery by NWDAF	SA2	-	<a href="#">S5-235044</a>
<a href="#">S5-235752</a>	LS on charging aspects of AI/ML traffic	SA2	-	<a href="#">S5-235042</a>
<a href="#">S5-235769</a>	LS on documenting code changes in FORGE	SA	CT, CT1, CT3, CT4, SA4	-
<a href="#">S5-235771</a>	LS reply to LSout to 3GPP SA5 about status of FEAT24 "VNF-OAM" development by ETSI NFV	ETSI ISG NFV	-	<a href="#">S5-235025</a>
<a href="#">S5-235772</a>	Reply LS on Approval of eQoE CRs for NR	RAN2	RAN3, SA4, CT1, CT4	<a href="#">S5-235026</a>
<a href="#">S5-235774</a>	Reply to: Response to Reply LS on Support of network slices which have area of service not matching deployed tracking areas	RAN3,SA2	-	<a href="#">S5-235032</a>
<a href="#">S5-235775</a>	Reply LS on Multiple TraceMDT configurations	3GPP RAN3	3GPP SA2	<a href="#">S5-235035</a>
<a href="#">S5-235776</a>	Reply LS on OAM input data for QoS Sustainability Analytics	3GPP SA2	-	<a href="#">S5-235043</a>
<a href="#">S5-235777</a>	Reply to LS on AI/ML for NG-RAN Energy Saving Energy Cost index	RAN3	-	<a href="#">S5-235036</a>
<a href="#">S5-235778</a>	Reply to LS on 3GPP work on energy efficiency	SA4	SA, SA1, SA2, SA3, SA6	<a href="#">S5-235046</a>
<a href="#">S5-235779</a>	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	<a href="#">S5-235050</a>
<a href="#">S5-235780</a>	LS on Enhancement on the attribute for 5GLAN management	3GPP CT4	3GPP SA2	-

T-Doc Number	Title	To	CC	Reply to
<a href="#">S5-235781</a>	Reply to: LS on collecting QoE measurements per MBS service area and MBS session ID	RAN3	RAN2	<a href="#">S5-235031</a>
<a href="#">S5-235782</a>	Reply to: LS on area scope for QoE measurements	RAN2	SA4, RAN3	<a href="#">S5-235027</a>
<a href="#">S5-235855</a>	LS on documenting code in Forge-GitLab	CT4	CT1, CT3, SACT1, CT3, CT, SA4,SA	-
<a href="#">S5-235800</a>	LS to GSMA WSOLU on 5G charging architecture for roaming scenarios phase 2	GSMA WSOLU	3GPP SA2, GSMA NG, GSMA IDS	-