Issues

#	Project	Tracker	Status	Priority	Subject	Assignee	Updated	Related issues
6340	pySim	Bug	New	Low	exception when using osmo-smdpp with python 3.9	laforge	02/15/2024 09:29 PM	
6278	pySim	Bug	Resolved	Normal	fix sending of raw APDUs	dexter	12/04/2023 10:16 AM	
6271	pySim	Bug	Resolved	Normal	do not execute a startup script on initialization errors	dexter	12/04/2023 10:20 AM	
6159	OsmoBSC	Bug	New	Normal	use paging queue for PAGING messages that come from the BSC co-located PCU	dexter	08/30/2023 12:39 PM	
6147	OsmoBTS	Bug	Resolved	Normal	TC_pcu_data_req_pdtch/ptcch/pdtch/ptcch and TC_pcu_ptcch fail	fixeria	08/27/2023 04:10 PM	
6142	OsmoBTS	Bug	Resolved	Normal	channels are opened, but nothing happens, sometimes strange DTAP messages appear	pespin	08/24/2023 05:51 AM	Related to #6142
6100	OsmoPCU	Bug	Resolved	Normal	nacc_fsm: uninitialized neigh_key variable	dexter	07/24/2023 12:24 PM	
6099	OsmoBTS	Bug	Resolved	Normal	Immediate Assignment on PCH without IMSI (check back behaviour)	dexter	07/19/2023 10:15 AM	Related to #6099
6093	OsmoHNBGW	Bug	Resolved	Normal	Some TTCN3 tests, including TC_rab_assignment faile due to problem with MGCP		07/10/2023 08:23 PM	
6059	OsmoBSC	Bug	New	Normal	negotiate GSM-HR RTP packet format explicitly	dexter	06/13/2023 10:38 AM	
6026	SIMtrace 2	Bug	Resolved	Normal	simtrace2 cardem firmware stops card communication early	dexter	05/16/2023 03:26 AM	
6022	OsmoPCU	Bug	Resolved	Normal	osmo-pcu, fix support for multiple PDCH on ericsson RBS	dexter	05/03/2023 08:11 AM	
6015	OsmoPCU	Bug	New	Normal	osmo-pcu (with ericsson RBS) is unable to keep TRAU frames in sync	dexter	12/23/2023 01:12 AM	
5984	OsmoMGW	Bug	Closed	High	fix regression in TC_two_crcx_and_one_mdcx_rtp_ho	dexter	04/17/2023 08:22 AM	
5688	OsmoBTS	Bug	Resolved	Normal	osmo-bts-sysmo and osmo-bts-trx use different GSM-HR RTP packet format	dexter	10/27/2023 12:06 AM	Related to #6036,Related to #6171
5645	OsmoBTS	Bug	Resolved	High	osmo-bts-trx crashes when using gsmtap option -i	dexter	10/24/2022 08:25 AM	Related to #5765
5634	OsmoBSC	Bug	Resolved	Normal	Paging broken (at least) for E1 BTSs	dexter	08/15/2022 08:57 AM	
5597	OsmoBSCNAT	Bug	Resolved	Normal	fix uninitialized address CID 273006	osmith	07/13/2022 07:45 AM	
5030	Cellular Network Infrastructure	Bug	Resolved	High	jenkins ttcn3-bsc-test and ttcn3-bts-test fail to build osmo-bts	dexter	02/17/2021 02:20 PM	
4752	OsmoBSC	Bug	Resolved	Normal	TC_ho_int does not pass	dexter	10/05/2020 02:23 PM	
4281	OsmoBTS	Bug	Resolved	Normal	MS power control loop is interrupted when bad frames are received	dexter	01/06/2020 10:43 AM	
4214	OsmoMSC	Bug	Resolved	Normal	Also accept messages with unknown TLV Information elements	dexter	10/01/2019 08:59 AM	
4160	OsmoMSC	Bug	Rejected	Normal	osmo-msc segfaults	dexter	11/11/2019 12:12 PM	
4159	osmo-sip-connector	Bug	Resolved	Normal	osmo-sip-connector segfaults	dexter	09/04/2019 09:23 AM	
3960	OsmoBTS	Bug	Resolved	Normal	fix TC_rsl_ms_pwr_ctrl and TC_si_sched_13_2bis_2ter_2quater	dexter	04/26/2019 03:13 PM	
3959	OsmoMSC	Bug	Resolved	Normal	Extranous SGsAP-PAGING-REQUEST after MT CSFB call (TC_sgsap_lu_and_mt_call)	dexter	08/06/2019 11:32 AM	

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3941	OsmoMSC	Bug	Resolved	Normal	investigate why TC_lu_and_mt_sms_paging_and_nothing suddelnly fails in ttcn3-msc-test-latest	dexter	04/18/2019 02:57 PM	
3934	OsmoMSC	Bug	Resolved	Immediate	TC_sgsap_expl_imsi_det_noneps crashes osmo-msc	dexter	04/23/2019 12:28 PM	
3930	OsmoMSC	Bug	Resolved	Normal	TC_smpp_mt_sms crashes osmo-msc	neels	04/15/2019 11:53 AM	
3915	OsmoMSC	Bug	Resolved	Normal	TC_lu_and_mt_call does not pass	dexter	04/15/2019 01:21 PM	
3864	OsmoBSC	Bug	Resolved	Normal	Do not execute S15-S0 related tests in ttcn3-bsc-test-sccplite	dexter	04/03/2019 11:40 AM	
3853	OsmoMSC	Bug	Resolved	Normal	TC_sgsap_mt_sms_and_nothing does not pass	dexter	04/23/2019 12:21 PM	
3852	OsmoBSC	Bug	Resolved	Normal	TC_chan_rel_hard_clear_csfb does not pass	dexter	04/08/2019 09:03 AM	
3850	pySim	Bug	Resolved	Normal	programming of 3 digit MNC does not work	dexter	04/08/2019 07:16 AM	
3849	OsmoMGW	Bug	New	Normal	race condition problem in rtp flow tests of the ttcn3 testsuite		09/04/2019 09:26 AM	
3843	OsmoBTS	Bug	Resolved	Normal	clean up sending of OML failure event reports	dexter	04/08/2019 08:48 AM	
3833	OsmoBSC	Bug	Resolved	High	Fix storage location of AMR S15-S0 bits	neels	12/14/2022 02:37 AM	Related to #3833
3807	OsmoBTS	Bug	Resolved	Normal	short HRv1 RTP payload on PHY based BTS implementations	dexter	03/18/2019 11:53 AM	Related to #4002
3803	OsmoBTS	Bug	Resolved	Normal	fix frame number calculation in scheduler_trx	dexter	11/18/2019 11:53 AM	Related to #3803,Related to #3803,Related to #3803
3782	OsmoBTS	Bug	New	Low	OML bringup fails for osmo-bts-oc2g on high latency links		01/08/2020 10:27 PM	Related to #3782,Related to #3782,Related to #3789,Related to #4031
3762	OsmoMSC	Bug	Resolved	Normal	fix TC_mo_cc_bssmap_clear	dexter	01/28/2019 03:54 PM	
3704	OsmoMSC	Bug	Resolved	Normal	When Paging request for SMS is unanswered, osmo-msc sends infinit number of paging requests	dexter	01/21/2019 04:25 PM	Related to #3704
3673	OsmoMGW	Bug	Resolved	Normal	chopped LCO		02/14/2019 08:46 AM	
3657	OpenBSC	Bug	Resolved	Urgent	fix support for non voice configuration	dexter	10/22/2018 08:38 PM	
3639	OsmoBSC	Bug	Resolved	Normal	TC_assignment_sign, TC_ciph_mode_a5_0, TC_ciph_mode_a5_1, TC_ciph_mode_a5_3 do not pass in the sccp-lite testsuite	dexter	10/29/2018 02:04 PM	
3599	OsmoMSC	Bug	Resolved	Normal	TTCN3 test TC_mo_setup_and_nothing does not pass	dexter	10/29/2018 01:33 PM	
3548	OsmoBSC	Bug	Resolved	Normal	COMPLETE LAYER 3 INFORMATION does not contain Codec List (BSS Supported) information element	dexter	10/01/2018 07:50 AM	
3529	OsmoBSC	Bug	Resolved	Normal	osmo-bsc does not send the correct S0-S15 bits for AMR in the Assignment Compl Message.	dexter	10/29/2018 01:56 PM	Related to #3637
3527	OsmoBSC	Bug	Resolved	Normal	When EFR is used Speech Version and Speech Codec seem to mismatch in ASSIGMNET COMPLETE msg	dexter	09/06/2018 08:02 AM	
3511	OsmoMGW	Bug	Resolved	Normal	osmo-mgw does not forward RTP packets anymore	dexter	03/30/2020 08:36 PM	
3497	OsmoBTS	Bug	Resolved	Immediate	udp/gsmtap multicast is broken osmo-bts-virtual and virtphy	dexter	08/27/2018 03:39 PM	

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3478	OsmoBTS	Bug	Rejected	Low	struct member lchan->meas.bts_tx_pwr is never set	dexter	05/03/2021 04:46 PM	
3465	OsmoBTS	Bug	Resolved	Normal	TTCN3 tests for osmo-bts fail	dexter	08/14/2018 05:45 PM	
3447	OsmoBSC	Bug	Resolved	Normal	osmo-bsc segfaults when not connected to an MSC while a subsriber tries to LU	dexter	08/13/2018 08:13 AM	
3446	OsmoBSC	Bug	Resolved	Normal	osmo-bsc hits assertion in osmo_bsc_sigtran.c:351	dexter	08/13/2018 08:14 AM	
3444	OsmoMGW	Bug	Resolved	Normal	mgw hits assertion in mgcp_network.c:489	dexter	08/06/2018 01:07 PM	
3443	OsmoMGW	Bug	New	Low	Check audio-payload options in osmo-mgw VTY		03/15/2020 08:43 AM	
3442	OsmoMGW	Bug	New	Normal	fix int mgcp_codec_decide() in mgcp_codec.c		09/04/2019 09:26 AM	
3441	libosmocore	Bug	Resolved	Normal	two processes can open the same UDP port without error	dexter	08/06/2018 01:09 PM	
3413	OsmoBSC	Bug	Resolved	High	TC_lcls_connect_clear does not pass anymore.	neels	05/09/2019 12:25 AM	Related to #3659
3406	OsmoMGW	Bug	Resolved	Normal	nullpointer deref in mgcp_protocol.c, function etup_rtp_processing()	dexter	07/23/2018 08:06 PM	
3405	pySim	Bug	Resolved	Normal	fix support for sysmousim-gr1	dexter	08/27/2018 09:02 AM	
3396	OsmoBSC	Bug	Resolved	Normal	TC_ho_int is indicating port problem during handover	dexter	07/30/2018 12:32 PM	
3384	Cellular Network Infrastructure	Bug	Resolved	Normal	Translate PT before sending RTP packets (different PT numbers, but same codec on two connections)	dexter	08/06/2018 12:59 PM	
3381	OsmoGGSN (former OpenGGSN)	Bug	Resolved	Low	osmo-ggsn does not react properly when the PDP CTX ACT PCO contains primary and secondary DNS in separate IPCP	pespin	04/15/2019 01:44 PM	Is duplicate of #3319
3376	pySim	Bug	Resolved	Normal	create test scripts to verify pysim-prog ans sysmo-usim-tool with jenkins	dexter	01/08/2020 10:50 PM	Related to #3377
3361	OsmoBSC	Bug	Resolved	Normal	VTY option codec-support is not used	dexter	07/23/2018 10:33 AM	
3358	OsmoBSC	Bug	Resolved	Normal	TC_lcls_connect_break, TC_lcls_connect_clear, TC_lcls_gcr_bway_connect, and TC_lcls_gcr_bway_dont_connect_csc fail	dexter	06/27/2018 06:59 AM	
3319	OsmoGGSN (former OpenGGSN)	Bug	Resolved	Normal	also handle PCOs that contain primary and secondary DNS in two separate IPCP containers	pespin	07/26/2018 03:14 PM	Related to #3319,Is duplicate of #3319
3299	OsmoBTS	Bug	Closed	Normal	osmo_ortp: scheduler is not started	dexter	01/08/2020 10:27 PM	
3288	OsmoGGSN (former OpenGGSN)	Bug	Resolved	Normal	osmo-ggsn hangs on certain CREATE PDP CONTEXT gtp packets	dexter	07/09/2018 08:57 AM	Related to #3319
3266	OsmoMSC	Bug	Resolved	Normal	CM Service reject with wrong cause-code	dexter	05/28/2018 01:01 PM	
3112	OsmoBSC	Bug	Resolved	Low	Clean up / fix osmo_bsc_filter.c	dexter	07/31/2019 11:20 AM	
3066	OsmoMSC	Bug	Resolved	Normal	osmo-msc segfaults on early clear request (take out battery while ringing)	dexter	03/19/2018 08:59 PM	
3035	OsmoMSC	Bug	Resolved	Normal	fix BSSMAP reset + add TTCN3 testcase	dexter	03/12/2018 08:17 PM	
3016	OsmoBTS	Bug	Rejected	Low	octphy: tx power can not be modified	dexter	10/01/2018 07:19 AM	
3015	OsmoBTS	Bug	Rejected	Low	octphy: Mode Modify is currently not supported for Octasic PHY		10/01/2018 07:19 AM	
2976	OsmoBTS	Bug	Rejected	Normal	octphy: no response to assignment command on RSL level	dexter	10/01/2018 07:17 AM	

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2939	OsmoBSC	Bug	Resolved	Normal	TTCN3: Fix broken paging tests	laforge	03/17/2018 08:46 PM	
2936	OsmoBSC	Bug	Resolved	High	Fix TTCN3 Test BSC_Tests.TC_assignment_sign	dexter	06/04/2018 07:44 PM	
2917	OsmoBSC	Bug	Resolved	Normal	osmo-bsc does not react on RSL RELEASE INDICATION (TC_chan_rel_rll_rel_ind)	dexter	03/17/2018 08:58 PM	
2915	libosmocore	Bug	Resolved	Normal	FSM: Do not terminate child FSMs early	dexter	02/19/2018 08:56 PM	
2912	OsmoBSC	Bug	Resolved	Normal	osmo-bsc configuration in docker-playground has faulty encryption parameters	dexter	02/19/2018 09:22 PM	
2863	OsmoMGW	Bug	Resolved	High	osmo-mgw segfaults on DLCX (use-after-free in mgcp_network.c)	dexter	04/15/2018 07:45 PM	
2823	OsmoBSC	Bug	Resolved	Urgent	Use bsc_subscr_conn_fsm in BSC	dexter	03/26/2018 08:34 AM	
2777	OsmoMSC	Bug	Resolved	Normal	Document that DTMF signalling does not work (with internal MNCC)	dexter	10/08/2018 07:34 AM	Related to #2777
2745	OsmoMSC	Bug	Resolved	Normal	UMTS ciphering on GSM does not work when both 2G and 3G keys are present in the HLR.	neels	01/11/2018 11:28 AM	Is duplicate of #2745
2613	libosmocore	Bug	Closed	Immediate	vty crashes on tab-completion	dexter	02/06/2018 08:26 AM	
2598	OsmoMGW	Bug	Closed	Normal	Choose correct interface/ip automatically	dexter	02/06/2018 08:26 AM	
2597	OsmoMGW	Bug	Closed	Normal	revisit log categories	dexter	02/06/2018 08:26 AM	
2585	OsmoSGSN	Bug	Closed	Normal	build osmo-sgsn without libosmo-sigtran	dexter	02/06/2018 08:26 AM	
2577	OsmoSGSN	Bug	Resolved	Normal	Ensure meaningful default loglevels.	dexter	05/27/2020 12:00 PM	
2573	OsmoMSC	Bug	Closed	Normal	segfault in osmo-msc when subscriber silently vanishes	neels	02/06/2018 08:26 AM	Blocks #2573
2535	OsmoMGW	Bug	Closed	Normal	improve mgcp client API	dexter	02/06/2018 08:26 AM	
2521	OsmoMGW	Bug	Rejected	Low	reduce levels in struct mgcp_conn_rtp	dexter	07/31/2019 09:30 AM	
2501	OsmoSGSN	Bug	In Progress	Normal	suspected problem with unanswered neighbor solicitation	osmith	09/11/2019 12:58 PM	
2454	OsmoMGW	Bug	Closed	Normal	Restructure existing code	dexter	02/06/2018 08:25 AM	
2441	libosmo-sccp + libosmo-sigtran	Bug	Closed	Urgent	chopped-off pointcodes	laforge	02/06/2018 08:25 AM	
2424	OpenBSC	Bug	Closed	Normal	use osmo_sccp_addr_set_ssn() in osmo-bsc	dexter	10/11/2017 02:54 AM	
2381	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	function to automatically generate a local SCCP-Address	dexter	08/08/2017 07:06 PM	
2376	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	search for an sscp-address and return ss7 instance in one go	dexter	08/08/2017 07:06 PM	
2375	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	enforce unique names in sccp-addressbook	dexter	08/08/2017 07:06 PM	
2355	OsmoBTS	Bug	New	Low	optimize log output of phy specific code		09/04/2019 09:26 AM	Related to #2355
2351	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	unify sccp instance configuration	dexter	10/11/2017 02:53 AM	Related to #2351,Related to #2351
2349	OsmoBTS	Bug	Closed	Normal	osmo-bts-octphy: segfault in l1_if.c	dexter	08/08/2017 07:06 PM	

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2348	OsmoMSC	Bug	Closed	Normal	AoIP: garbled RTP in call following a call to an unreachable subscriber	dexter	08/08/2017 07:06 PM	
2347	OpenBSC	Bug	Closed	Normal	osmo-msc Make SSCP address configurable	dexter	07/10/2017 08:13 AM	
2345	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	VTY: Check returncode of osmo_ss7_pointcode_parse()	dexter	08/08/2017 07:06 PM	
2342	OpenBSC	Bug	Closed	Normal	fix MSC co located MGCP	dexter	08/08/2017 07:06 PM	
2328	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	sccp-address nodes	dexter	08/08/2017 07:06 PM	
2322	OsmoMSC	Bug	Resolved	High	Make osmo-msc work with external mncc	dexter	08/28/2019 08:20 AM	
2259	libosmo-sccp + libosmo-sigtran	Bug	New	Normal	problem with local reference	laforge	07/19/2017 04:25 PM	
2004	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	Problem sending CR without data	laforge	05/14/2017 11:22 AM	
1995	libosmo-sccp + libosmo-sigtran	Bug	Closed	Normal	Segfault when callin osmo_sccp_tx_unitdata() without being connected	laforge	04/25/2017 01:57 PM	
1989	pySim	Bug	Closed	Normal	SMSC not set for sysmo-usim-sjs1	daniel	10/11/2017 02:55 AM	
1988	pySim	Bug	Closed	Normal	problem changing the ICCID on sysmo-usim-sjs1	dexter	04/25/2017 01:57 PM	
1972	OsmoSGSN	Bug	Closed	Normal	show online-help outputs generates multiple commands	dexter	04/25/2017 01:57 PM	
1957	OsmoPCU	Bug	Closed	Normal	Fix calculation of absolute frame number from relative frame number (RACH)	dexter	02/28/2017 05:33 PM	
1938	libosmocore	Bug	Resolved	Low	lapd_core human readable connection IDs in debug log	laforge	06/13/2020 01:30 PM	
1932	OsmoPCU	Bug	Closed	Normal	vty command write corrupts config file for osmo-bts-octphy	dexter	02/28/2017 05:33 PM	
1931	OsmoPCU	Bug	Rejected	Normal	Downlink TBF allocation problem during PDP-Context Deact REQ on OCTBTS	dexter	10/04/2017 04:31 PM	
1895	OsmoBTS	Bug	Closed	Normal	Multiple bts and gsm core network instances on the same machine	dexter	04/25/2017 01:57 PM	
1882	OsmoSGSN	Bug	Closed	Low	xid is not re-transmitted on pdp-ctx-ack retransmission	dexter	02/28/2017 05:33 PM	
1779	OpenBSC	Bug	Closed	Normal	Problems with automatic subscriber creation.		10/11/2016 10:05 AM	
1768	OsmoSGSN	Bug	Stalled	Low	VTY show llc displays State TLLI Unassigned permanently		01/08/2020 10:52 PM	
6171	OsmoMGW	Feature	In Progress	Normal	mgcp-client API: there should be a separate mgcp_codec_param for each codec in mgcp_msg.codecs[]	dexter	11/01/2023 04:15 PM	Related to #6171
6150	OsmoPCU	Feature	New	Normal	PCUIF: Use unique identifiers instead of the TLLI as msg_id.	dexter	10/24/2023 03:15 PM	
6139	OsmoSGSN	Feature	New	Normal	test mobility between GERAN (OsmoPCU) and EUTRAN (Open5GS) end to end on real hardware	dexter	04/02/2024 09:38 AM	
6050	OsmoSGSN	Feature	Closed	Normal	Add missing testcase to test GERAN originated RIM RAN information request towards a 4G cell (EUTRAN)	dexter	07/17/2023 08:52 AM	
6044	OsmoPCU	Feature	Resolved	Normal	Extend osmo-pcu and related TTCN3 tests so that PacketCellChangeNotification is tested with 3G/4G cells	dexter	07/24/2023 12:26 PM	
5976	pySim	Feature	New	Low	pySim-prog: do not program linked files multiple times	dexter	03/27/2023 04:05 PM	

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5930	OsmoPCU	Feature	New	Low	handle multiple BTSs with one PCU		03/03/2023 10:47 AM	
5927	OsmoBTS	Feature	Resolved	Normal	use "Direct TLLI" method to confirm IMMEDIATE ASSIGNMENT messages towards PCU	dexter	10/24/2023 03:16 PM	
4841	OsmoMGW	Feature	Stalled	Low	TC_e1_crcx_and_dlcx_ep does not pass - move the IPA code out of libosmo-abis	dexter	10/11/2021 10:10 AM	Related to #4841,Related to #4841
3916	OsmoGSMTester	Feature	Rejected	Normal	Format TTCN3 log output	osmith	07/11/2019 08:53 AM	
3530	OsmoBTS	Feature	Rejected	Normal	merge PRIM_INFO_MEAS into PRIM_PH_DATA and PRIM_TCH	dexter	10/29/2019 08:40 AM	Related to #3530,Related to #3803
3352	OsmoMGW	Feature	Feedback	Low	osmo-mgw does not allow multiple codecs in LCO	neels	01/08/2020 10:25 PM	
3334	OsmoMGW	Feature	Resolved	Normal	use proper sdp in libosmo-mgcp-client	dexter	06/25/2018 07:58 PM	
2950	osmo-sip-connector	Feature	Resolved	Low	create OE-Package for osmo-sip-connector	dexter	01/07/2019 10:18 AM	
2918	OsmoBSC	Feature	New	Low	Implement a function to properly test connection clearing in MSC_ConnectionHandler.ttcn (BSC-Tests)		01/08/2020 10:21 PM	
2822	OsmoMSC	Feature	Closed	Normal	work out MSC test scenarios	dexter	01/24/2018 12:11 PM	
2587	libosmocore	Feature	Closed	Normal	helper function to finde the right interface for a remote IP-Address	dexter	02/06/2018 08:25 AM	
2580	OsmoMGW	Feature	New	Low	implement timeout/resend mechanism for mgcp_client		09/04/2019 09:26 AM	
2517	OsmoMGW	Feature	Resolved	Normal	use libosmocore counters for packet/byte counting (statistics)	dexter	07/09/2018 08:32 AM	
2516	OsmoMGW	Feature	Resolved	High	automatic testing of osmo-mgw / jenkins integration	dexter	03/27/2018 01:30 PM	Related to #2516
2515	OpenBSC	Feature	Closed	High	integrate osmo-mgw in osmo-bsc	dexter	02/06/2018 08:26 AM	
2417	libosmo-sccp + libosmo-sigtran	Feature	Closed	Normal	function to check sccp-addresses	dexter	08/08/2017 07:06 PM	
2397	OsmoMSC	Feature	Resolved	Normal	let osmo-msc record location area from location update for LAC wide paging	neels	05/09/2019 12:13 AM	Related to #2397,Blocks #1609
2396	OpenBSC	Feature	Closed	Normal	Comfortable CS7/SS7 VTY configuration for osmo-bsc and osmo-msc	dexter	10/11/2017 02:53 AM	Related to #2396
3863	OsmoBTS	Support	Stalled	Normal	setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb		12/01/2019 10:52 AM	