

## Issues

| #    | Project                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 1511 | UmTRX                        | Feature | New    | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals  |          | 02/19/2016 10:52 PM |                                   |
| 1505 | UmTRX                        | Bug     | New    | High     | OHM4 footprint incorrect  |          | 02/19/2016 10:52 PM |                                   |
| 1518 | UmTRX                        | Feature | New    | Normal   | Upper limit of the clock is too low   |          | 02/19/2016 10:52 PM |                                   |
| 1517 | UmTRX                        | Feature | New    | Normal   | U_FL (UMC) connectors are not reliable after few connections  |          | 02/19/2016 10:52 PM |                                   |
| 1516 | UmTRX                        | Feature | New    | Normal   | There are no port to control external equipment like PA   |          | 02/19/2016 10:52 PM |                                   |
| 1515 | UmTRX                        | Feature | New    | Normal   | Heat dissipation and mounting issue   |          | 02/19/2016 10:52 PM |                                   |
| 1477 | Mobile (in)Security          | Bug     | New    | High     | RACH flood DoS  |          | 02/21/2016 04:34 PM |                                   |
| 1483 | Mobile (in)Security          | Bug     | New    | High     | USSD state is not reset when switching cells  |          | 02/21/2016 04:34 PM |                                   |
| 1481 | Mobile (in)Security          | Bug     | New    | High     | Random LAPDm MAC-block padding is not deployed yet  |          | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1480 | Mobile (in)Security          | Bug     | New    | High     | A5/3 is not deployed in GSM networks  |          | 02/21/2016 04:34 PM |                                   |
| 1482 | Mobile (in)Security          | Bug     | New    | Normal   | Sending the TMSI of the old/previous network  |          | 02/21/2016 04:35 PM |                                   |
| 1462 | OsmocomBB                    | Bug     | New    | High     | ../src/utlis.c:182:7: error: only weak aliases are supported in this configuration                      |          | 02/21/2016 04:48 PM |                                   |
| 1547 | OsmoPCU                      | Feature | New    | Normal   | downlink power control on PDTCH   |          | 02/23/2016 03:04 PM |                                   |
| 1550 | OsmoPCU                      | Bug     | New    | Normal   | Cell reselection under network control  |          | 02/23/2016 03:06 PM |                                   |
| 1554 | OsmoPCU                      | Feature | New    | Normal   | per-MS BSSGP flow control   |          | 02/23/2016 03:12 PM | Related to #1554                  |
| 1561 | OsmoBTS                      | Feature | New    | Low      | Multi-TRX support (one osmo-bts process per TRX)  |          | 02/23/2016 03:18 PM |                                   |
| 1570 | OsmoBTS                      | Feature | New    | Low      | Select RTP payload identifier based on requested speech mode  |          | 02/23/2016 03:31 PM |                                   |
| 1571 | OsmoBTS                      | Feature | New    | Low      | Support RTP multiplexing instead of per-call RTP streams  |          | 02/23/2016 03:32 PM |                                   |
| 1577 | OsmoBTS                      | Bug     | New    | Normal   | mph_send_config_logchpar doesn't update encryption config   |          | 02/23/2016 03:39 PM |                                   |
| 1586 | OsmoSGSN                     | Feature | New    | Normal   | Implement QoS profile support   |          | 02/23/2016 03:45 PM |                                   |
| 1588 | OsmoSGSN                     | Feature | New    | Normal   | Inter-RAT hand-over   |          | 02/23/2016 03:46 PM |                                   |
| 1678 | SDR (Software Defined Radio) | Bug     | New    | Normal   | Use -undefined dynamic_lookup when using Python and building on Mac OS X                                |          | 03/30/2016 11:25 PM |                                   |
| 1692 | OsmoBTS                      | Feature | New    | Low      | clock source monitoring   |          | 04/13/2016 09:49 AM |                                   |
| 72   | OsmoNITB                     | Bug     | New    | Low      | struct gsm_call can leak..  |          | 05/09/2016 07:37 PM |                                   |
| 70   | OsmoNITB                     | Bug     | New    | Low      | nitb crashes in the rtp_proxy when a phone on a MT-call sends a 'CONNECT' before the CRCX ACK came back |          | 05/09/2016 07:37 PM |                                   |
| 61   | OsmoBTS                      | Feature | New    | Low      | osmo-bts: split TRAU/RTP frame handling into separate process   |          | 06/13/2016 01:16 PM |                                   |
| 1751 | OsmoBTS                      | Bug     | New    | Low      | incompatibility between LCR and DTX   |          | 06/14/2016 04:39 PM |                                   |

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|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|---------------------------------|
| 1716 | libosmcore                            | Feature | New    | Normal   | enhance unit test coverage                                      |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717 |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New    | Normal   | cat /dev/snd/* causes kernel oops                               |          | 09/30/2016 04:00 PM |                                 |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Low      | check if qtools work  |          | 10/02/2016 04:08 AM |                                 |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Normal   | tool for building binary ipk from .list/.control                |          | 10/02/2016 05:06 AM |                                 |
| 1832 | Linux Kernel GTP-U                    | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5                                 |          | 10/27/2016 08:56 AM |                                 |
| 33   | OsmoSGSN                              | Feature | New    | Low      | real LLC implementation with fragmentation and re-transmissions |          | 11/09/2016 09:45 AM |                                 |
| 1901 | osmo-qcdiag                           | Feature | New    | Normal   | osmo-qcdiag: Ability to read/write NV data                      |          | 01/11/2017 12:15 PM |                                 |
| 1900 | osmo-qcdiag                           | Feature | New    | Normal   | osmo-qcdiag: Add FUSE based access for EFS                      |          | 01/11/2017 12:15 PM |                                 |
| 1899 | osmo-qcdiag                           | Bug     | New    | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working          |          | 01/11/2017 12:15 PM |                                 |
| 1907 | osmo-qcdiag                           | Bug     | New    | Normal   | osmo-qcdiag detects CRC errors relatively often                 |          | 01/23/2017 01:47 AM |                                 |
| 1755 | OsmoBTS                               | Feature | New    | Low      | osmo-bts-sysmo L1: unify hLayer3 handling                       |          | 02/02/2017 04:00 PM | Related to #1755                |
| 1576 | OsmoBTS                               | Feature | New    | Low      | consider using hLayer2 as a pointer storage                     |          | 02/02/2017 04:11 PM | Related to #1755                |
| 1549 | OsmoPCU                               | Feature | New    | Normal   | DRX support for GPRS  |          | 02/04/2017 08:11 AM | Related to #1942                |
| 1897 | OsmocomTETRA                          | Bug     | New    | Low      | Inefficient sequence search in tetra_find_train_seq             |          | 04/10/2017 01:04 AM |                                 |
| 2003 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement M2UA support  |          | 04/10/2017 12:01 PM |                                 |
| 2007 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement GT based routing                                      |          | 04/10/2017 12:04 PM |                                 |
| 2008 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement Global Title Translation                              |          | 04/10/2017 12:05 PM |                                 |
| 2009 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")                    |          | 04/10/2017 12:09 PM |                                 |
| 2175 | OP25                                  | Feature | New    | High     | Update code for GNURadio 3.6 and later                          |          | 04/22/2017 04:14 PM |                                 |
| 2173 | OP25                                  | Feature | New    | High     | Remove dependency on ET++                                       |          | 04/22/2017 04:14 PM |                                 |
| 2172 | OP25                                  | Bug     | New    | High     | H DU often missing in captures                                  |          | 04/22/2017 04:14 PM |                                 |
| 2171 | OP25                                  | Feature | New    | High     | Use libfftw3 for IFFT/FFT functions.                            |          | 04/22/2017 04:14 PM |                                 |
| 2170 | OP25                                  | Bug     | New    | High     | Implement forward error-correction code, remove IT++ dependency |          | 04/22/2017 04:14 PM |                                 |
| 2169 | OP25                                  | Bug     | New    | High     | First-cut of trunking support                                   |          | 04/22/2017 04:15 PM |                                 |
| 2168 | OP25                                  | Bug     | New    | High     | Implement Forward error correction for LDU1/2                   |          | 04/22/2017 04:15 PM |                                 |

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|------|--|---------|-------------|----------|---|----------|---------------------|------------------|
| 2167 | OP25   | Feature | New         | High     | Implement Encryption/Decryption P25 blocks  |          | 04/22/2017 04:15 PM |                  |
| 2166 | OP25   | Feature | New         | High     | Add support for Max's I/Q 455khz downconverter  |          | 04/22/2017 04:15 PM |                  |
| 2162 | OP25   | Bug     | New         | High     | Fix bit-ordering in output for VC55.  |          | 04/22/2017 04:15 PM |                  |
| 2160 | OP25   | Feature | New         | High     | Add "datascope" to usrp_p25_rx.py   |          | 04/22/2017 04:16 PM |                  |
| 2158 | OP25   | Feature | New         | High     | Create a shared library for decoding for WireShark and the decoder.                   |          | 04/22/2017 04:16 PM |                  |
| 2157 | OP25   | Feature | New         | High     | Fix "traffic" tab so it displays data for non-HDU data units                          |          | 04/22/2017 04:16 PM |                  |
| 2156 | OP25   | Feature | New         | High     | Implement forward error correction for HDU.   |          | 04/22/2017 04:16 PM |                  |
| 2155 | OP25   | Feature | New         | High     | Replace FSK4 demodulation with IQ demodulator stage.                                  |          | 04/22/2017 04:16 PM |                  |
| 2179 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New         | Normal   | no sign about OsmoCon outside of venue  |          | 04/24/2017 07:10 PM |                  |
| 2224 | SDR (Software Defined Radio)                           | Feature | New         | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |                  |
| 2225 | OsmoGSMTester  | Feature | New         | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |                  |
| 2196 | OsmoGSMTester  | Feature | New         | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state |          | 05/15/2017 12:58 PM |                  |
| 2245 | OsmoGSMTester  | Bug     | New         | Low      | osmo-bts cfg: fix band string   |          | 05/15/2017 12:58 PM | Related to #2230 |
| 2271 | OsmoGSMTester  | Feature | New         | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 PM |                  |
| 2209 | OsmoGSMTester  | Feature | New         | Low      | osmo-gsm-tester: add test API to explicitly free a resource                           |          | 05/19/2017 11:01 AM | Related to #2208 |
| 2287 | OsmoGSMTester  | Feature | New         | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr |          | 05/23/2017 12:11 PM |                  |
| 2288 | OsmoGSMTester  | Feature | New         | Low      | logging: print in a short way which resource is being reserved and used               |          | 05/23/2017 02:25 PM |                  |
| 2292 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New         | Normal   | Time with community users during OsmoCon  |          | 05/25/2017 03:03 PM |                  |
| 2208 | OsmoGSMTester  | Feature | New         | Low      | osmo-gsm-tester: allow running binaries for a whole suite, or only for a single test  |          | 05/30/2017 01:07 PM | Related to #2208 |
| 2311 | OsmoGSMTester  | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |                  |
| 2313 | OsmoGSMTester  | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |                  |
| 2314 | OsmoGSMTester  | Feature | New         | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                            |          | 05/31/2017 04:29 PM |                  |
| 2318 | OsmoGSMTester  | Feature | New         | Normal   | testing sysmobts: skip copying of binaries when the same are already installed        |          | 06/07/2017 03:55 PM |                  |
| 1954 | OsmocomBB  | Bug     | In Progress | Normal   | Motorola C188 with Osmocombb firmwre(RAM version) can't scan out any base stations    |          | 07/10/2017 10:24 PM |                  |
| 2364 | OsmoBTS  | Bug     | New         | Low      | OsmoBTS sends SI1 even if it is not specified/needed                                  |          | 07/15/2017 10:06 AM |                  |

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| 2366 | OsmoBTS       | Feature | New      | Low      | OsmoBTS lacks EXTENDED BCCH support   |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014      |
| 2399 | OsmoGSMTester | Feature | New      | Normal   | add tests for graceful restart of individual components                               |          | 07/25/2017 12:02 AM |  |
| 2405 | OsmoPCU       | Feature | New      | Low      | RLC/MAC encoding routines don't use bitvec L/H  |          | 07/29/2017 09:01 AM |  |
| 2431 | OsmoGSMTester | Bug     | New      | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME                                  |          | 08/10/2017 03:47 PM |  |
| 2374 | OsmoGSMTester | Feature | New      | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                   |          | 08/10/2017 04:37 PM |  |
| 2438 | OsmoNITB      | Bug     | New      | Normal   | MS not registered from osmocomb PoV, but registered from ofono PoV                    |          | 08/14/2017 09:36 AM |  |
| 2414 | OsmoNITB      | Bug     | New      | Normal   | SMSC: deliverSM message with no user_message_reference                                |          | 08/15/2017 05:53 PM | Related to #2413,Related to #2414      |
| 1919 | pySim         | Bug     | New      | Low      | issue with grcardsim from Greencard (grcard.cn)                                       |          | 08/17/2017 06:45 AM |  |
| 2462 | OsmoBSC       | Feature | New      | Low      | clarify lchan->encr.alg_id  |          | 08/24/2017 01:27 PM | Related to #2462                       |
| 2186 | libosmocore   | Feature | New      | Low      | split libosmocrypto   |          | 10/05/2017 06:25 AM |  |
| 2546 | OsmoMGW       | Feature | New      | Low      | support play-out/announcement endpoint type   |          | 10/06/2017 12:30 PM |  |
| 2567 | OsmoHLR       | Feature | New      | Low      | tell the MSC(s) when subscriber data has changed                                      |          | 10/11/2017 01:50 AM |  |
| 2266 | OsmoGSMTester | Feature | New      | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation |          | 10/16/2017 12:36 PM |  |
| 1916 | OsmocomBB     | Bug     | New      | Normal   | building GNU ARM toolchain with gcc-4.8 fails on modern texinfo                       |          | 10/16/2017 02:14 PM |  |
| 1838 | OsmoPCU       | Bug     | Stalled  | Normal   | Nokia E52 doest reply to PUAN message properly  |          | 10/29/2017 06:47 PM |  |
| 2615 | OsmoGSMTester | Bug     | New      | Normal   | Add API to check GPS lock in BTS  |          | 11/03/2017 05:00 PM |  |
| 1898 | OsmoBTS       | Bug     | Feedback | Low      | Wrong handover detection with l1sap on wrong ss=0/ts=0                                |          | 11/07/2017 09:54 PM |  |
| 2651 | OsmoMGW       | Feature | New      | Low      | Support MGCP Piggybacking   |          | 11/18/2017 05:44 PM |  |
| 2690 | OsmocomBB     | Bug     | New      | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access                                     |          | 11/29/2017 09:33 AM |  |
| 2694 | OsmocomBB     | Bug     | New      | Normal   | SIGSEGV in lapdm code   |          | 11/30/2017 08:45 AM | Related to #2694                       |
| 2197 | OsmoGSMTester | Feature | Stalled  | Normal   | osmo-gsm-tester: use MNCC interface   |          | 11/30/2017 10:41 AM | Related to #2194,Is duplicate of #2197 |
| 2697 | osmo-qcdiag   | Feature | New      | Normal   | Create and add debian packages for osmo-qcdiag to osmocomb debian repositories        |          | 11/30/2017 06:03 PM |  |
| 2702 | OsmoMGW       | Feature | New      | Low      | libosmo-mgcp doesn't use osmo_sock_API  |          | 12/03/2017 09:42 AM |  |
| 2705 | OsmocomBB     | Bug     | New      | Normal   | GSM48_MMR_NREG_REQ followed by GSM48_MMR_REG_REQ don't attach to the network          |          | 12/03/2017 09:50 PM |  |
| 2707 | OsmoGSMTester | Feature | New      | Normal   | Add support for verifying content of log files after test is run                      |          | 12/04/2017 05:05 PM |  |
| 2717 | libosmo-abis  | Bug     | New      | Low      | libosmo-abis doesn't use ipa_ccm_make_id_resp()                                       |          | 12/06/2017 05:47 PM |  |
| 68   | OsmoBSC       | Bug     | New      | Low      | ipaccess-config should work with -u ID -o IP -r BTS_IP                                |          | 12/10/2017 07:52 PM |  |
| 69   | OsmoBSC       | Bug     | New      | Low      | No timers for various calls   |          | 12/10/2017 07:53 PM |  |

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| 73   | OsmoBSC                         | Bug     | New    | Low      | Kill the paging_init_if_needed method in paging.c   |          | 12/10/2017 07:53 PM |                                   |
| 1858 | OsmoBSC                         | Feature | New    | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |                                   |
| 1596 | Cellular Network Infrastructure | Feature | New    | Low      | Generation of accounting/billing data   |          | 12/10/2017 08:03 PM |                                   |
| 1598 | Cellular Network Infrastructure | Feature | New    | Low      | Scripting language interface  |          | 12/10/2017 08:04 PM |                                   |
| 1600 | OsmoBSC                         | Feature | New    | Low      | BSC: Make SI / rest octests more configurable   |          | 12/10/2017 08:04 PM |                                   |
| 1613 | OsmoBSC                         | Feature | New    | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                    |          | 12/10/2017 08:06 PM |                                   |
| 1643 | OsmoHLR                         | Feature | New    | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643     |
| 1659 | OsmoBSC                         | Feature | New    | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time |          | 12/10/2017 08:06 PM |                                   |
| 1857 | OsmoBSC                         | Feature | New    | Normal   | aggregate and report OML ALERT messages received from BTSs                                |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605 |
| 34   | OsmoBSC                         | Bug     | New    | Normal   | ipaccess init code needs proper state machines  |          | 12/10/2017 08:16 PM | Related to #34                    |
| 2230 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2764 | SDR (Software Defined Radio)    | Support | New    | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 PM |                                   |
| 2390 | OsmoMSC                         | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |                                   |
| 2191 | OsmoMSC                         | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |                                   |
| 2798 | linmodem                        | Feature | New    | Normal   | ALSA Soundcard Support  |          | 01/01/2018 12:02 PM |                                   |
| 2800 | linmodem                        | Feature | New    | Normal   | Interop testing with real modems  |          | 01/01/2018 12:16 PM |                                   |
| 2801 | linmodem                        | Feature | New    | Normal   | V.90 completion   |          | 01/01/2018 12:18 PM |                                   |
| 2802 | linmodem                        | Feature | New    | Low      | report the connected speed in "CONNECT" message   |          | 01/01/2018 12:18 PM |                                   |
| 2803 | linmodem                        | Bug     | New    | Low      | return ERROR for unsupported AT commands  |          | 01/01/2018 12:19 PM |                                   |
| 2804 | linmodem                        | Feature | New    | Low      | DAHDI interface   |          | 01/01/2018 12:27 PM |                                   |
| 2806 | UUCP and UseNet                 | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                                 |          | 01/01/2018 01:04 PM |                                   |
| 2808 | Z-Netz                          | Bug     | New    | Normal   | Create + Document VM/emulation setup for running ZERBERUS                                 |          | 01/01/2018 01:09 PM |                                   |
| 2809 | Z-Netz                          | Bug     | New    | Normal   | Build ZConnect <-> UseNet gateway   |          | 01/01/2018 01:33 PM |                                   |
| 2813 | Z-Netz                          | Feature | New    | Normal   | Create + Document OpenXP setup on Linux   |          | 01/01/2018 01:41 PM |                                   |
| 2814 | Z-Netz                          | Feature | New    | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                                |          | 01/01/2018 01:41 PM |                                   |
| 2815 | linmodem                        | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |                                   |

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| 2832 | OsmoMSC   | Feature | New     | Low      | MNCC doesn't include field for "supported codecs"                                 |          | 01/16/2018 07:00 AM | Related to #2832,Related to #1683  |
| 2878 | OsmoMSC   | Feature | New     | Low      | OsmoMSC support for "Follow-on request/proceed"                                   |          | 01/26/2018 09:11 PM |  |
| 2916 | OsmoMSC   | Bug     | New     | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                          |          | 02/09/2018 04:20 PM |  |
| 2928 | OsmoMSC   | Bug     | New     | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received            |          | 02/11/2018 05:38 PM |  |
| 2933 | OsmoMSC   | Bug     | New     | Low      | change of trans->bearer_cap (e.g. via MNCC) will not trigger BSSMAP ASSIGNMENT    |          | 02/12/2018 11:36 AM | Related to #2854   |
| 2942 | OsmoBTS   | Bug     | New     | Low      | osmo-bts-virtual+virtphy+mobile paging for SMS delivery fails                     |          | 02/13/2018 05:05 PM |  |
| 2995 | OsmocomBB | Bug     | New     | Normal   | Wrong parsing of PAGING TYPE 3  |          | 02/24/2018 11:03 PM | Related to #2994   |
| 3000 | OsmoBSC   | Bug     | New     | Normal   | OsmoBSC issues "RSL Connect" command too early -> race conditions                 |          | 02/25/2018 12:32 PM | Related to #2470,Related to #4179  |
| 57   | OsmoBTS   | Bug     | New     | Low      | sysmobts L1 is not properly closed, DSP firmware reload is required               |          | 03/01/2018 11:16 PM | Related to #57   |
| 1537 | OsmoPCU   | Feature | New     | Low      | Move the BSSGP handling to libosmocore  |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388  |
| 1771 | OsmoBTS   | Feature | New     | Low      | osmo-bts-trx: clarify check_transceiver_availability()                            |          | 03/01/2018 11:17 PM | Related to #1770   |
| 1794 | OsmoSGSN  | Bug     | Stalled | Normal   | support random IV for GEA (via XID)   |          | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 1837 | OsmoBTS   | Feature | New     | Low      | autogenerate dtx_dl_amr_fsm.*   |          | 03/01/2018 11:17 PM |  |
| 3033 | OsmoTRX   | Feature | New     | Low      | Split wiki page into multiple smaller pages                                       |          | 03/05/2018 11:28 AM |  |
| 2382 | OsmoBSC   | Bug     | New     | Normal   | T3105 not consistently communicated to all BTS models                             |          | 03/05/2018 07:02 PM |  |
| 2411 | OsmoMGW   | Feature | New     | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded |          | 03/05/2018 07:04 PM |  |
| 1955 | OsmoNITB  | Bug     | New     | Normal   | Investigate "Bad signalling message" error  |          | 03/05/2018 07:33 PM |  |
| 1904 | OsmoNITB  | Bug     | New     | Normal   | get rid of deprecated functions   |          | 03/05/2018 07:33 PM |  |
| 1829 | OsmoNITB  | Bug     | New     | Normal   | Fix warnings introduced by ctrl constify  |          | 03/05/2018 07:34 PM |  |
| 54   | OsmoNITB  | Bug     | New     | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent                 |          | 03/05/2018 07:34 PM |  |
| 48   | OsmoNITB  | Bug     | New     | Normal   | Periodic timer and paging   |          | 03/05/2018 07:34 PM |  |
| 38   | OsmoNITB  | Bug     | New     | Normal   | subscr_update should sync database before dispatching the signal                  |          | 03/05/2018 07:34 PM |  |
| 37   | OsmoNITB  | Bug     | New     | Normal   | RTP Proxy dealing with SSRC change and sequence numbers                           |          | 03/05/2018 07:34 PM |  |
| 1725 | OsmoNITB  | Bug     | Stalled | Low      | iPhone6 network selection issue with GSM1900                                      |          | 03/05/2018 07:35 PM |  |
| 1671 | OsmoNITB  | Bug     | Stalled | Low      | Combined 850/1800 NITB not seen by Option Icon2 stick                             |          | 03/05/2018 07:35 PM |  |

| #    | Project  | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                     |
|------|--|---------|----------|----------|--|----------|---------------------|------------------------------------|
| 28   | OsmoNITB   | Bug     | New      | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)  |          | 03/05/2018 07:36 PM |                                    |
| 21   | OsmoNITB   | Bug     | New      | Low      | we don't see CHANnel ReQireD from motorola EZX phones at call setup  |          | 03/05/2018 07:36 PM |                                    |
| 3038 | multi-voltage USB UART                                 | Feature | New      | Normal   | Add mounting holes?  |          | 03/07/2018 02:12 AM |                                    |
| 3058 | OsmoBTS  | Bug     | New      | Low      | RSL SACCH FILLING are per TRX, not BTS scope   |          | 03/11/2018 08:55 PM |                                    |
| 3097 | OsmoBSC  | Feature | New      | Normal   | ramping of "rxlev access min"  |          | 03/22/2018 11:51 AM | Related to #3097                   |
| 3126 | SDR (Software Defined Radio)                           | Bug     | New      | Low      | Windows 10 Pro 1709: crash of rtl_test.exe   |          | 03/30/2018 02:16 PM |                                    |
| 3141 | OsmoTRX  | Bug     | New      | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation  |          | 04/05/2018 05:46 PM |                                    |
| 3142 | Cellular Network Infrastructure                        | Feature | New      | Low      | Further simplification of "NITB like" setups   |          | 04/05/2018 08:09 PM |                                    |
| 1688 | libosmo-sccp + libosmo-sigtran                         | Feature | New      | Low      | SUA: support N-STATE indication primitives for connect and disconnect events                                       |          | 04/08/2018 07:59 AM |                                    |
| 2646 | OsmoGSMTester  | Feature | New      | Normal   | osmo-gsm-tester: Add osmo-sip-connector support  |          | 04/23/2018 10:40 AM |                                    |
| 3200 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New      | Normal   | OsmoDevCon: Use loudspeakers even at IN-Berlin   |          | 04/23/2018 06:53 PM |                                    |
| 3201 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New      | Normal   | OsmoDevCon: Add one more rectangular table   |          | 04/23/2018 07:00 PM |                                    |
| 3207 | OsmoMGW  | Feature | New      | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"  |          | 04/24/2018 03:53 PM |                                    |
| 2610 | libosmocore  | Feature | New      | Low      | optimize GnuTLS fallback   |          | 05/01/2018 04:07 PM | Related to #2610, Related to #3909 |
| 3243 | OsmoBSC  | Bug     | New      | Normal   | there is MGW config for each separate 'msc', but the MGW settings are stored only once globally                    |          | 05/07/2018 03:10 PM |                                    |
| 2691 | OsmoNITB   | Bug     | Feedback | Normal   | Old TMSI paged after LU  |          | 05/17/2018 11:47 AM |                                    |
| 3280 | OsmocomBB  | Feature | New      | Low      | Multiparty SS support in OsmocomBB   |          | 05/22/2018 07:40 AM |                                    |
| 18   | OsmoNITB   | Feature | New      | Low      | store last location identity to database   |          | 05/24/2018 01:15 PM |                                    |
| 3309 | libosmocore  | Feature | New      | Normal   | osmo_timer_* should use monotonic clock  |          | 05/31/2018 03:59 PM | Related to #3309                   |
| 3240 | gr-osmosdr   | Bug     | New      | Normal   | Expose airspy gain setting in gr-osmosdr block   |          | 06/03/2018 12:08 PM |                                    |
| 2824 | gr-osmosdr   | Bug     | New      | High     | Corrupted double-linked for Raspbian Stretch when running osmocom_fft (and any other program using osmosdr.source) |          | 06/03/2018 12:08 PM |                                    |
| 2216 | gr-osmosdr   | Bug     | New      | Normal   | uhd: LO offset doesn't seem to work properly   |          | 06/03/2018 12:08 PM |                                    |
| 2607 | rtl-sdr  | Bug     | New      | Normal   | rtl-sdr gnuradio cfile is outdated   |          | 06/03/2018 12:23 PM |                                    |
| 1983 | rtl-sdr  | Support | New      | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list   |          | 06/03/2018 12:24 PM |                                    |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|--|----------|---------------------|------------------|
| 3329 | OsmoBTS                         | Feature | New     | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED  |          | 06/08/2018 12:02 PM | Related to #3330 |
| 3330 | OsmoBSC                         | Feature | New     | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED  |          | 06/08/2018 12:14 PM | Related to #3330 |
| 3345 | OsmoTRX                         | Feature | New     | Low      | merge ms branch  |          | 06/13/2018 07:16 PM |                  |
| 3344 | OsmoTRX                         | Feature | New     | Normal   | merge ttsou/siggen   |          | 06/13/2018 07:26 PM |                  |
| 2827 | OsmoBTS                         | Feature | New     | Low      | would be nice if logging of the BTS number in osmo-bts matched the BTS number used in osmo-bsc     |          | 06/23/2018 06:48 PM |                  |
| 3019 | OsmoHLR                         | Feature | New     | Low      | add config for number of auth tuples returned  |          | 06/23/2018 06:58 PM |                  |
| 41   | OsmoMSC                         | Bug     | New     | Normal   | Numbering Plan in OsmoMSC  |          | 06/23/2018 07:37 PM |                  |
| 1627 | OsmocomBB                       | Support | Stalled | Low      | DCS_8BIT and DCS_UCS2 encoding supprot   |          | 07/16/2018 06:53 PM |                  |
| 3401 | OsmocomBB                       | Bug     | New     | Normal   | target/firmware/l1ctl: both chan_nr and link_id are not set for L1CTL_DATA_CONF                    |          | 07/16/2018 11:56 PM |                  |
| 2373 | OsmoMSC                         | Bug     | New     | Low      | SMS sent to old Nokia 1100: "message 0x332/1" causes CP-ERROR, and SMS is received 5 or more times |          | 08/03/2018 05:22 PM |                  |
| 3479 | OsmoBSC                         | Feature | New     | Normal   | test "every single failure" in osmo-bsc FSMs   |          | 08/20/2018 11:15 AM | Related to #3479 |
| 3469 | OsmoMSC                         | Feature | New     | Low      | Support for "service category" in emergency calls  |          | 08/24/2018 12:48 PM | Related to #3470 |
| 3501 | SIMtrace 2                      | Feature | New     | Low      | Multi-sim addon board idea   |          | 08/28/2018 03:00 PM |                  |
| 3470 | OsmoMSC                         | Feature | New     | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT  |          | 09/01/2018 08:18 PM | Related to #3470 |
| 3588 | rtl-sdr                         | Bug     | New     | Normal   | Error Values Inconsistent  |          | 09/25/2018 12:47 PM |                  |
| 3589 | rtl-sdr                         | Bug     | New     | Normal   | Zerocopy Buffers Unusable Outside Callback Without memcpy()  |          | 09/25/2018 12:58 PM |                  |
| 3590 | rtl-sdr                         | Bug     | New     | Normal   | Key Functions Missing Documentation  |          | 09/25/2018 01:04 PM |                  |
| 3591 | rtl-sdr                         | Bug     | New     | Normal   | No Way To Detect Occasional Failed Bulk Transfers  |          | 09/25/2018 01:29 PM |                  |
| 3594 | gr-osmosdr                      | Feature | New     | Normal   | Message Commands   |          | 09/25/2018 03:59 PM |                  |
| 3595 | gr-osmosdr                      | Feature | New     | Normal   | RX Tags  |          | 09/25/2018 04:01 PM |                  |
| 3596 | gr-osmosdr                      | Feature | New     | Normal   | TX Tags  |          | 09/25/2018 04:01 PM |                  |
| 2913 | OsmocomBB                       | Feature | New     | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)  |          | 09/29/2018 09:31 AM | Related to #3564 |
| 3602 | OsmoSTP                         | Feature | New     | Low      | M2UA support   |          | 09/30/2018 08:00 AM |                  |
| 3006 | libosmo-netif                   | Bug     | New     | Low      | Osmux: improvements on lost/dropped RTP packets  |          | 09/30/2018 08:34 AM |                  |
| 1612 | Cellular Network Infrastructure | Bug     | New     | Low      | more configuration consistency checking  |          | 09/30/2018 11:48 AM |                  |
| 2391 | OsmoMSC                         | Feature | New     | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details                         |          | 10/02/2018 03:40 PM |                  |
| 3609 | OsmoSTP                         | Feature | New     | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |                  |
| 3607 | OsmoSTP                         | Feature | New     | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |                  |
| 3606 | OsmoSTP                         | Feature | New     | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |                  |
| 3603 | OsmoSTP                         | Feature | New     | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603 |



| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 3629 | OsmocomBB                       | Bug     | New         | Normal   | mobile aborting after 'test re-selection 1' on vty  |          | 10/04/2018 02:58 PM |  |
| 3387 | OsmocomBB                       | Feature | New         | Low      | osmocon: Use libosmocore logging system   |          | 10/05/2018 04:21 PM |  |
| 3642 | OsmoBSC                         | Bug     | New         | Low      | logging filter imsi leaks bsc_subscr references   |          | 10/09/2018 10:04 PM |  |
| 3649 | OsmoHLR                         | Feature | New         | Low      | Investigate LMDB as HLR data storage  |          | 10/12/2018 11:35 AM | Related to #3649                                   |
| 3652 | OsmocomBB                       | Bug     | New         | Normal   | Incorrect IMEISV setting in mobile application  |          | 10/12/2018 08:20 PM |  |
| 3482 | OsmoBSC                         | Feature | New         | Low      | handover decision: if a new call causes congestion that would trigger immedate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482                                   |
| 3485 | OsmoBSC                         | Feature | New         | Low      | handover to make room for a less capable subscriber   |          | 10/16/2018 01:16 PM | Related to #3485                                   |
| 3486 | OsmoBSC                         | Feature | New         | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                           |          | 10/16/2018 01:16 PM | Related to #3486,Related to #3638                  |
| 3638 | OsmoBSC                         | Feature | New         | Low      | handover decision 2: load balancing across BSS  |          | 10/16/2018 01:16 PM | Related to #3638,Related to #3638,Related to #3638 |
| 3484 | OsmoBSC                         | Feature | New         | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference                  |          | 10/16/2018 01:30 PM |  |
| 3663 | gr-osmosdr                      | Bug     | New         | Normal   | Can't compile gr-osmosdr on macOS Mojave  |          | 10/19/2018 02:37 PM |  |
| 3653 | OsmocomBB                       | Bug     | New         | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX  |          | 10/22/2018 02:37 PM | Related to #5518                                   |
| 2378 | OsmocomBB                       | Feature | New         | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git  |          | 10/24/2018 02:13 PM |  |
| 3687 | OsmoMSC                         | Feature | New         | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |  |
| 3693 | libosmocore                     | Bug     | In Progress | Low      | gsm_04_08.h: numerous packed structs with sub-byte ints lack the order-swap shims for big endian  |          | 11/19/2018 02:05 PM |  |
| 1587 | OsmoSGSN                        | Feature | Stalled     | Normal   | SMS over GPRS support   |          | 11/25/2018 08:14 PM | Related to #3587                                   |
| 3724 | osmo-sip-connector              | Bug     | New         | Normal   | Wrong media format used in SIP INVITE causes one-way audio  |          | 12/11/2018 02:57 PM | Related to #3724,Related to #5177                  |
| 3445 | OsmoMSC                         | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API   |          | 12/14/2018 01:57 PM |  |
| 3734 | gr-osmosdr                      | Bug     | New         | High     | Cannot compile gr-osmocom   |          | 12/16/2018 12:22 AM |  |
| 3738 | OsmoMSC                         | Feature | New         | Normal   | Clarify PS-part of struct vlr_subscr  |          | 12/19/2018 12:34 PM |  |
| 3741 | osmo-sip-connector              | Bug     | New         | Normal   | Unknow call parameters shown in vty   |          | 12/28/2018 02:01 PM |  |
| 3763 | osmo-sip-connector              | Bug     | New         | Normal   | Implement correct handling for call answered elsewhere  |          | 01/22/2019 01:03 PM |  |
| 3779 | Cellular Network Infrastructure | Feature | New         | Low      | explore providing a VM image with all of osmocom CNI and related tools installed  |          | 02/04/2019 09:52 AM |  |
| 3797 | rtl-sdr                         | Bug     | New         | Normal   | Exits with "Bus error"  |          | 02/12/2019 02:28 PM |  |
| 3814 | OsmoBSC                         | Bug     | New         | Normal   | MS Power Control Problem with Osmo-BSC and nanoBTS  |          | 02/24/2019 01:15 AM |  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 3817 | SDR (Software Defined Radio)    | Bug     | New         | Normal   | Unable to use fospor display on Ubuntu 18.10   |          | 02/26/2019 06:56 PM |  |
| 3819 | gr-osmosdr                      | Support | New         | Urgent   | OSMO SDR blocks for GNUradio   |          | 02/28/2019 06:00 PM |  |
| 3822 | OsmoMGW                         | Bug     | New         | Low      | conn mode "sendonly" behaves identically to "sendrecv"   |          | 03/04/2019 09:34 PM |  |
| 3829 | OsmoMSC                         | Bug     | New         | Normal   | osmo-msc expects aoip TLV in Assignment Complete messages from BSC                                 |          | 03/07/2019 08:30 PM |  |
| 3812 | libosmo-netif                   | Bug     | Stalled     | Normal   | stream_test fails depending on where it is run   |          | 03/13/2019 04:15 PM |  |
| 3845 | libosmocore                     | Feature | New         | Low      | Unified logging in Gb NS / BSSGP code  |          | 03/16/2019 02:33 PM |  |
| 3880 | OsmoMSC                         | Bug     | New         | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response                                    |          | 04/01/2019 07:47 AM |  |
| 1479 | Mobile (in)Security             | Bug     | New         | Normal   | MTK stack unable to send MO-SMS on TCH/F   |          | 04/03/2019 09:01 AM |  |
| 3689 | OsmoSGSN                        | Bug     | New         | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)  |          | 04/09/2019 11:21 AM |  |
| 3688 | OsmoSGSN                        | Feature | New         | Low      | move generic gtpub code to libosmocore   |          | 04/15/2019 07:29 AM |  |
| 3920 | OsmoSGSN                        | Support | In Progress | Normal   | PCAPs files of 3G PS for Osmocom network and Commercial one  |          | 04/18/2019 02:03 PM | Related to #3920,Related to #3936,Related to #3923,Related to #3937,Related to #3922 |
| 3940 | OsmoSGSN                        | Bug     | New         | Normal   | TTCN-3: lu: test UMTS Auth   |          | 04/24/2019 08:24 AM |  |
| 3939 | OsmoSGSN                        | Bug     | New         | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request                         |          | 04/24/2019 08:25 AM |  |
| 3923 | OsmoSGSN                        | Bug     | New         | Normal   | lu: Respond to SecurityCommandReject messages  |          | 04/24/2019 08:26 AM | Related to #3923   |
| 3980 | OsmoMGW                         | Bug     | New         | Normal   | Clear Command before CRCX OK may leak MGW endpoint   |          | 05/06/2019 10:11 PM |  |
| 3755 | OsmoMSC                         | Feature | New         | Low      | make retrieval of IMEISV configurable  |          | 05/07/2019 12:28 PM | Related to #3755   |
| 3936 | OsmoSGSN                        | Bug     | New         | Normal   | lu: first GMM Service Request does not find a MM ctx   |          | 05/07/2019 01:37 PM | Related to #3936   |
| 3229 | Cellular Network Infrastructure | Feature | New         | Low      | build-system: jenkins.sh: Improve debian package generation test coverage during gerrit submission |          | 05/08/2019 02:36 PM | Related to #3228   |
| 3987 | libosmocore                     | Feature | New         | Low      | introduce libosmocore_init() to replace individual initialization calls                            |          | 05/08/2019 03:03 PM | Related to #3987   |
| 3988 | OsmoMSC                         | Feature | New         | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                          |          | 05/08/2019 03:26 PM |  |
| 3737 | OsmoBSC                         | Bug     | New         | Low      | abort because unused lchan has non-null conn pointer, after AMR config error                       |          | 05/08/2019 03:35 PM |  |
| 3992 | OsmoMSC                         | Bug     | New         | Normal   | inter-MSC handover for signalling-only?  |          | 05/09/2019 11:39 AM |  |
| 3937 | OsmoSGSN                        | Bug     | In Progress | Normal   | lu: verify handling of GMM Service Request (data)when no PDP Context present.                      |          | 05/21/2019 10:28 AM | Related to #3937   |
| 4014 | OsmoBTS                         | Feature | New         | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX           |          | 05/21/2019 12:07 PM |  |
| 4018 | OsmoPCU                         | Bug     | New         | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |  |

| #    | Project                               | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------|---------|----------|--|----------|---------------------|------------------|
| 4017 | OsmoMSC                               | Bug     | New     | Normal   | MSC fails to handle calls  |          | 05/29/2019 04:56 PM |                  |
| 4033 | OsmoGGSN (former OpenGGSN)            | Feature | New     | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management     |          | 05/30/2019 03:19 PM |                  |
| 4080 | rtl-sdr                               | Support | New     | Normal   | Receiving UTAs on 978 Mhz  |          | 07/02/2019 12:08 PM |                  |
| 3776 | OP25                                  | Bug     | New     | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS                    |          | 07/05/2019 07:12 PM |                  |
| 4108 | Cellular Network Infrastructure       | Bug     | New     | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs                    |          | 07/16/2019 12:30 PM | Related to #4108 |
| 3604 | OsmoSTP                               | Feature | New     | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |                  |
| 3605 | OsmoSTP                               | Feature | New     | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |                  |
| 3694 | Cellular Network Infrastructure       | Bug     | New     | Low      | Fix lintian warnings in .deb packages                                    |          | 07/18/2019 05:20 AM | Related to #3699 |
| 1590 | Cellular Network Infrastructure       | Feature | New     | Low      | Extension of Control Interface / external SNMP agent                     |          | 07/18/2019 05:22 AM |                  |
| 2839 | Cellular Network Infrastructure       | Bug     | New     | Low      | statistics split between 2G and 3G                                       |          | 07/18/2019 05:22 AM |                  |
| 2805 | FidoNet                               | Bug     | New     | Low      | Create reproducible / semi-automatic way to create FidoNet node on Linux |          | 07/18/2019 05:34 AM |                  |
| 2000 | libosmo-sccp + libosmo-sigtran        | Feature | New     | Low      | use m3ua-testtool for the ASP-side verification                          |          | 07/18/2019 05:42 AM |                  |
| 2851 | OsmoMSC                               | Bug     | Stalled | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2                           |          | 07/18/2019 05:45 AM |                  |
| 2974 | OsmoBTS                               | Bug     | New     | Low      | OsmoBTS doesn't use the "Diagnostics" part of the RSL Cause IE           |          | 07/18/2019 05:48 AM |                  |
| 3796 | OsmoBTS                               | Bug     | New     | Low      | OsmoBTS doesn't send proper cause values in NACK                         |          | 07/18/2019 06:04 AM | Related to #3796 |
| 1674 | OsmoBTS                               | Bug     | New     | Low      | Kill duplication between l1_if.c and sysmbots_ctrl.c                     |          | 07/18/2019 06:08 AM |                  |
| 1744 | OsmoBTS                               | Bug     | New     | Low      | 1-way voice between sysmobts and nanobts if DTX is enabled               |          | 07/18/2019 06:08 AM | Related to #1562 |
| 1926 | OsmoBTS                               | Feature | New     | Low      | unify *_mgr code   |          | 07/18/2019 06:08 AM |                  |
| 3732 | OsmoHLR                               | Feature | New     | Low      | Support tacdb query in HLR   |          | 07/18/2019 06:12 AM | Related to #3732 |
| 1603 | OsmoMSC                               | Feature | New     | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP        |          | 07/18/2019 06:13 AM |                  |
| 1973 | OsmoMSC                               | Feature | New     | Low      | VLR: efficient subscriber lookup   |          | 07/18/2019 06:15 AM | Related to #1973 |
| 4128 | OsmoHNBGW                             | Feature | New     | Low      | Add support of Huawei hNodeB protocol                                    |          | 07/24/2019 03:39 PM |                  |
| 4130 | OP25                                  | Bug     | New     | Normal   | OP25 User Interface  |          | 07/26/2019 02:36 AM |                  |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New     | Normal   | how to use network inside ec20   |          | 07/31/2019 11:20 AM |                  |
| 25   | OsmoMSC                               | Feature | New     | Low      | Call HOLD / RETRIEVE support for internal MNCC                           |          | 08/01/2019 03:06 PM |                  |
| 4141 | Cellular Network Infrastructure       | Bug     | New     | Normal   | No osmux specific code in place during codec negotiation                 |          | 08/05/2019 03:57 PM |                  |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|---------|----------|--|----------|---------------------|---|
| 4150 | OsmoMGW                         | Feature | New     | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared                                  |          | 08/13/2019 11:01 PM |   |
| 4174 | osmo-fl2k                       | Bug     | New     | Normal   | After the latest commits, the fl2k tools do not exit on first SIGINT                                 |          | 08/25/2019 04:57 PM |   |
| 3962 | OsmoTRX                         | Feature | New     | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled                                |          | 08/26/2019 02:04 PM |   |
| 4172 | OsmoGGSN (former OpenGGSN)      | Bug     | New     | Normal   | osmoggsn crashes when stopping   |          | 08/29/2019 11:35 AM |   |
| 1478 | Mobile (in)Security             | Bug     | New     | High     | IMSI DETACH DoS  |          | 09/02/2019 09:00 AM |   |
| 3670 | Cellular Network Infrastructure | Feature | New     | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |   |
| 4031 | OsmoBTS                         | Bug     | New     | Normal   | OML part of BTS has no TTCN-3 tests  |          | 09/04/2019 09:04 AM | Related to #4031,Related to #4031                           |
| 4189 | OsmoBSC                         | Feature | New     | Low      | TTCN-3 tests for load-based hand-over in BSC   |          | 09/04/2019 09:10 AM | Related to #4189  |
| 2622 | OsmoBSC                         | Support | Stalled | High     | Prepare automatic interop testing of OsmoBSC against NG40 core simulator + osmo-bts-virtual + mobile |          | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555          |
| 2677 | libosmocore                     | Support | New     | Normal   | Make stat_item available over ctrl interface   |          | 09/04/2019 09:21 AM | Related to #2676  |
| 2943 | OsmoMSC                         | Bug     | New     | Normal   | Errors in MGCP do not propagate back to MNCC gsm_subscriber_conn state machine                       |          | 09/04/2019 09:21 AM |   |
| 2893 | OsmoBSC                         | Feature | Stalled | Low      | automatic simulator for large LU load  |          | 09/04/2019 09:23 AM | Related to #2722,Related to #2591,Blocks #2893,Blocks #2893 |
| 1823 | OsmoPCU                         | Feature | Stalled | Low      | Ericsson PCU TRAU frame encoding/decoding  |          | 09/04/2019 09:26 AM | Related to #5198  |
| 2355 | OsmoBTS                         | Bug     | New     | Low      | optimize log output of phy specific code   |          | 09/04/2019 09:26 AM | Related to #2355  |
| 2580 | OsmoMGW                         | Feature | New     | Low      | implement timeout/resend mechanism for mgcp_client   |          | 09/04/2019 09:26 AM |   |
| 3442 | OsmoMGW                         | Bug     | New     | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c  |          | 09/04/2019 09:26 AM |   |
| 3849 | OsmoMGW                         | Bug     | New     | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite                                      |          | 09/04/2019 09:26 AM |   |
| 1667 | OsmoNITB                        | Feature | New     | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294  |
| 4196 | OsmoMSC                         | Feature | New     | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                                 |          | 09/25/2019 05:27 PM |   |
| 3964 | OsmoSGSN                        | Bug     | New     | Normal   | SIGSEGV in sndcp_sm_deactivate_ind()   |          | 10/10/2019 07:11 PM | Related to #3964,Related to #4221,Related to #4602          |
| 4242 | BBS-Revival                     | Feature | New     | Low      | offer CCC event schedule (Fahrplan) as gopher service  |          | 10/28/2019 09:22 AM |   |
| 4265 | libosmocore                     | Bug     | New     | Normal   | --enable-embedded doesn't work as expected   |          | 11/12/2019 11:18 AM |   |
| 4082 | OsmoBTS                         | Bug     | New     | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE  |          | 11/18/2019 10:09 AM |   |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 4277 | Cellular Network Infrastructure | Feature | New         | Low      | implement an SMSC to work with OsmoMSC  |          | 11/22/2019 02:45 PM |  |
| 4240 | OsmoMSC                         | Bug     | In Progress | Normal   | test: incoming call when already Paging   |          | 11/27/2019 11:09 PM |  |
| 3658 | Cellular Modem Information      | Feature | New         | Low      | Create a "osmocom-bb-host-latest" docker container  |          | 12/01/2019 09:07 AM | Related to #3658                                   |
| 2439 | libosmo-netif                   | Bug     | New         | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them                                    |          | 12/01/2019 10:11 AM | Blocks #2439                                       |
| 2440 | libosmo-netif                   | Bug     | New         | Normal   | Osmux: Improve lost packet recreation mechanism   |          | 12/01/2019 10:11 AM | Blocks #2439                                       |
| 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 |  |
| 3751 | OsmoBTS                         | Support | New         | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx}       |          | 12/01/2019 10:52 AM |  |
| 1987 | libosmocore                     | Feature | New         | Normal   | gcov code coverage test support   |          | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987             |
| 2861 | OsmoGSMTester                   | Feature | New         | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k  |          | 12/02/2019 01:36 PM | Related to #2860                                   |
| 4303 | OsmoHLR                         | Bug     | New         | Low      | various minor issues about evaluation of rc = db_subscr_get_by_*                                    |          | 12/03/2019 11:02 PM |  |
| 4304 | libosmocore                     | Bug     | New         | Low      | missing unit tests for many gsm48_{encode,decode} functions   |          | 12/04/2019 01:50 PM |  |
| 4308 | Distributed GSM                 | Support | New         | High     | thoughts about incorporating credit / billing in D-GSM  |          | 12/04/2019 04:08 PM |  |
| 4317 | osmo-pcap                       | Bug     | New         | Low      | external tests not enabled in jenkins.sh  |          | 12/10/2019 02:42 PM |  |
| 4325 | gr-osmosdr                      | Bug     | New         | Normal   | can't open hackrf_sink with device index  |          | 12/13/2019 09:18 AM |  |
| 4333 | Cellular Network Infrastructure | Support | Feedback    | Normal   | GSUP binary compatibility: add GSUP protocol version IE?  |          | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333 |
| 2799 | linmodem                        | Feature | New         | Normal   | SIP client support  |          | 01/01/2020 08:05 PM |  |
| 4336 | OsmoMSC                         | Feature | New         | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())  |          | 01/02/2020 05:32 PM | Related to #4337                                   |
| 2698 | OsmoMSC                         | Bug     | New         | Low      | Add more tests to jenkins job testing osmo-msc against NG40tester                                   |          | 01/08/2020 10:17 PM | Related to #2477                                   |
| 3731 | OsmoMGW                         | Bug     | New         | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |          | 01/08/2020 10:18 PM |  |
| 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 |  |
| 4053 | libosmocore                     | Feature | New         | Low      | CTRL: Add CTRL cmd introspection to print documentation   |          | 01/08/2020 10:21 PM | Related to #4053,Related to #4443                  |
| 2712 | libosmocore                     | Feature | New         | Low      | implement reproducible talloc context printout, i.e. without memory addresses                       |          | 01/08/2020 10:21 PM | Related to #2781                                   |
| 3787 | OsmoBSC                         | Bug     | New         | Low      | Assignment Request modifies conn->codec_list before the Assignment is successful                    |          | 01/08/2020 10:25 PM | Related to #3833                                   |
| 3786 | OsmoBSC                         | Bug     | New         | Low      | Assignment Request modifies conn->lcls state before the Assignment is successful                    |          | 01/08/2020 10:25 PM |  |

| #    | Project       | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------|---------|-------------|----------|--|----------|---------------------|---|
| 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 |
| 1560 | OsmoPCU       | Feature | New         | High     | EDGE benchmarking / performance optimization / tuning                                |          | 01/08/2020 10:31 PM |   |
| 1925 | OsmoPCU       | Bug     | New         | High     | Fix padding for MCS8 transition  |          | 01/08/2020 10:31 PM |   |
| 2713 | OsmoGSMTester | Bug     | New         | Normal   | ofono: chosen pdp type (v4, v6, dual) not strictly followed in ofono qmi             |          | 01/08/2020 10:40 PM | Related to #2713  |
| 2941 | OsmoGSMTester | Bug     | New         | Normal   | ofono: SierraW sometimes crashing while deactivating a context.                      |          | 01/08/2020 10:40 PM |   |
| 2621 | OsmoGSMTester | Bug     | New         | Normal   | Gobi2000: might stopped working because all CID got assigned                         |          | 01/08/2020 10:40 PM |   |
| 3046 | OsmoGSMTester | Bug     | New         | Normal   | ofono: SierraW modem fails to power on   |          | 01/08/2020 10:41 PM |   |
| 2238 | OsmoGSMTester | Bug     | In Progress | Normal   | ofono: Gobi modem: cannot receive SMS  |          | 01/08/2020 10:42 PM | Related to #2238  |
| 3564 | OsmoGSMTester | Feature | New         | Normal   | Investigate ofono and modems Cell Broadcast support                                  |          | 01/08/2020 10:42 PM | Related to #3564  |
| 1543 | OsmoPCU       | Feature | New         | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                                   |
| 2603 | OsmoPCU       | Bug     | New         | Low      | Review the various incomplete and never merged changes in radisys branch             |          | 01/08/2020 10:44 PM | Related to #1775  |
| 3284 | OsmoPCU       | Bug     | New         | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode          |          | 01/08/2020 10:45 PM | Related to #2400,Related to #3284                                   |
| 1818 | OsmoSGSN      | Bug     | New         | Normal   | luPS: CN should lu Release in certain situations                                     |          | 01/08/2020 10:47 PM | Related to #1818,Related to #3302,Related to #3908                  |
| 2953 | OsmoSGSN      | Bug     | New         | Normal   | No timeout waiting for UpdateLocation Response on GSUP                               |          | 01/08/2020 10:47 PM | Related to #2952  |
| 2957 | OsmoSGSN      | Bug     | New         | Normal   | No timeout during GSUP PURGE MS to HLR   |          | 01/08/2020 10:47 PM |   |
| 2962 | OsmoSGSN      | Bug     | New         | Normal   | Missing TTCN-3 test cases  |          | 01/08/2020 10:47 PM |   |
| 3696 | OsmoSGSN      | Bug     | New         | Normal   | Intermittent Connection Drop   |          | 01/08/2020 10:48 PM |   |
| 2960 | OsmoSGSN      | Bug     | New         | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP        |          | 01/08/2020 10:48 PM |   |
| 3224 | OsmoSGSN      | Bug     | New         | Normal   | verify cipherring after UMTS AKA   |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224                                   |
| 1942 | OsmoSGSN      | Bug     | Feedback    | Normal   | Gb: implement paging in case of MM state == STANDBY && rx DL PDU                     |          | 01/08/2020 10:48 PM | Related to #1942,Related to #4222                                   |
| 1881 | OsmoSGSN      | Bug     | In Progress | Normal   | don't send PDP CTX DEACT ACK to MS when destroying PDP ctx indepent from MS requests |          | 01/08/2020 10:49 PM |   |

| #    | Project            | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|--------------------|---------|-------------|----------|--|----------|---------------------|--|
| 1655 | OsmoSGSN           | Feature | Stalled     | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655 |
| 2958 | OsmoSGSN           | Bug     | Stalled     | Normal   | OsmoSGSN doesn't authenticate on second/further ATTACH REQUEST           |          | 01/08/2020 10:49 PM | Related to #2958,Related to #4221                  |
| 2236 | OsmoGSMTester      | Bug     | New         | Low      | ofono: Fix valgrind issues   |          | 01/08/2020 10:51 PM |  |
| 2468 | OsmoGSMTester      | Feature | New         | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface  |          | 01/08/2020 10:51 PM |  |
| 2432 | OsmoGSMTester      | Feature | New         | Low      | ofono: Find out how to receive Status / Delivery report                  |          | 01/08/2020 10:51 PM |  |
| 1768 | OsmoSGSN           | Bug     | Stalled     | Low      | VTY show llc displays State TLLI Unassigned permanently                  |          | 01/08/2020 10:52 PM |  |
| 1687 | osmo-sip-connector | Feature | New         | Low      | osmo-sip-connector: Explore 3-way conference call                        |          | 01/08/2020 10:56 PM |  |
| 1902 | OsmoBTS            | Feature | New         | Low      | unify/refactor dynamic timeslot code                                     |          | 01/08/2020 10:56 PM | Related to #1902,Related to #3099                  |
| 1812 | OsmoNITB           | Feature | New         | Normal   | Report gsm0408_dispatch() failures to MS / UE                            |          | 01/08/2020 10:56 PM |  |
| 2305 | OsmoSGSN           | Bug     | New         | Normal   | review 'laforge/santos' branch and check if there are pending fixes      |          | 01/08/2020 10:56 PM |  |
| 2436 | OsmoHNBGW          | Feature | New         | Low      | Test cases for asn1c APER encoding                                       |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 2884 | OsmoMSC            | Bug     | New         | Low      | Call Control timers are very long and not configurable                   |          | 01/08/2020 10:56 PM |  |
| 2437 | OsmoHNBGW          | Bug     | New         | Low      | synchronize different asn1c APER forks                                   |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 3169 | OsmoMSC            | Bug     | New         | Low      | OsmoMSC rejects SMPP messages with empty SMS                             |          | 01/08/2020 10:56 PM |  |
| 3931 | OsmoGSMTester      | Support | New         | Normal   | Contact quectel to get info about modem updates (hopefully less crashes) |          | 01/08/2020 10:56 PM | Related to #3931                                   |
| 3970 | OsmoTRX            | Bug     | New         | Low      | libusrp fails to compile 1/4 of times in jenkins with PARALLEL_MAKE set  |          | 01/08/2020 10:56 PM | Is duplicate of #3970                              |
| 4124 | OsmoBSCNAT         | Feature | New         | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124                                   |
| 4310 | osmo-sip-connector | Bug     | New         | Normal   | sends BYE to self  |          | 01/09/2020 09:21 AM |  |
| 4352 | osmo-sip-connector | Bug     | New         | Normal   | Need to handle 401 Unauthorized  |          | 01/09/2020 02:03 PM |  |
| 4359 | gr-osmosdr         | Bug     | New         | Normal   | Compiling from Git Bramcj gr3.8 fails                                    |          | 01/12/2020 05:08 PM |  |
| 1766 | OsmoPCU            | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS  |          | 01/22/2020 02:06 PM | Related to #1766,Related to #1766                  |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|---------|----------|--|----------|---------------------|-----------------------------------|
| 1555 | OsmoPCU                         | Feature | New     | Low      | Add support for unacknowledged RLC Mode  |          | 01/22/2020 02:59 PM |                                   |
| 1759 | OsmoPCU                         | Bug     | Stalled | High     | Wrong calculation of DL window size for DL assignment  |          | 01/22/2020 04:01 PM | Related to #1533,Related to #1524 |
| 4374 | OsmoMSC                         | Feature | New     | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach                       |          | 01/23/2020 03:19 AM |                                   |
| 4376 | Cellular Network Infrastructure | Feature | New     | Normal   | Define distinct X timer numbers across all osmo programs                                     |          | 01/23/2020 09:21 PM |                                   |
| 1530 | OsmoPCU                         | Feature | New     | Low      | Assign same TFI number in downlink/uplink  |          | 01/26/2020 08:50 AM |                                   |
| 4415 | OsmoGGSN (former OpenGGSN)      | Feature | New     | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                        |          | 02/25/2020 03:05 PM |                                   |
| 4418 | OsmocomBB                       | Feature | New     | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)                  |          | 02/26/2020 11:41 PM |                                   |
| 2379 | OsmocomBB                       | Feature | New     | Normal   | package as .deb  |          | 02/27/2020 02:39 PM |                                   |
| 4427 | rtl-sdr                         | Bug     | New     | Normal   | docker + rtl_sdr issue   |          | 02/29/2020 01:16 PM |                                   |
| 4432 | OsmoMGW                         | Bug     | New     | Normal   | for 'domain **', mgw should echo the domain of the MGCP client                               |          | 03/04/2020 12:39 AM |                                   |
| 4433 | OsmoGGSN (former OpenGGSN)      | Feature | New     | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |                                   |
| 4443 | libosmocore                     | Bug     | New     | Normal   | CTRL interface blocks wildcard in rate_ctr   |          | 03/08/2020 01:06 PM | Related to #4443,Related to #4443 |
| 4451 | OsmoMSC                         | Bug     | New     | Normal   | vtty 'show stats level': different stats levels yield identical results                      |          | 03/09/2020 10:10 PM |                                   |
| 3443 | OsmoMGW                         | Bug     | New     | Low      | Check audio-payload options in osmo-mgw VTY  |          | 03/15/2020 08:43 AM |                                   |
| 4457 | libosmo-sccp + libosmo-sigtran  | Bug     | New     | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application |          | 03/17/2020 11:17 PM |                                   |
| 4458 | Core testing infrastructure     | Feature | New     | Low      | Set up a STF (Smartphone Testing Farm)   |          | 03/18/2020 02:44 PM |                                   |
| 1903 | OsmoPCU                         | Feature | New     | Low      | convert c++ -> c   |          | 03/23/2020 10:48 PM |                                   |
| 4455 | OP25                            | Feature | New     | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |                                   |
| 4471 | OsmocomBB                       | Support | New     | Normal   | Received FTMTTOOL from phone, ramloader has aborted  |          | 03/29/2020 11:18 AM |                                   |
| 4473 | OsmoBTS                         | Feature | New     | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473                  |
| 2612 | OsmoGSMTester                   | Feature | New     | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted                     |          | 04/06/2020 11:25 AM |                                   |
| 2504 | OsmoGSMTester                   | Support | New     | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester               |          | 04/06/2020 11:28 AM |                                   |
| 3917 | OsmoGSMTester                   | Bug     | New     | Normal   | ofono: update debian packages to match our dependencies                                      |          | 04/06/2020 11:30 AM |                                   |
| 2200 | OsmoGSMTester                   | Feature | New     | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case                            |          | 04/06/2020 04:57 PM | Related to #2201                  |
| 4484 | gr-osmosdr                      | Bug     | New     | Normal   | CMakeFiles.txt   |          | 04/06/2020 05:19 PM |                                   |



| #    | Project                    | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|----------------------------|---------|----------|----------|--|----------|---------------------|--|
| 4404 | IMSI Pseudonymization      | Feature | Stalled  | Normal   | Research: Make sure that we can silently detach the IMSI   |          | 04/15/2020 10:06 AM | Related to #4404,Related to #4480  |
| 4491 | OsmoHLR                    | Bug     | New      | Low      | Cancel in old VLR/SGSN, if new VLR/SGSN differs from old   |          | 04/15/2020 12:29 PM |  |
| 4489 | IMSI Pseudonymization      | Feature | New      | Normal   | Specification: mark mandatory parts / implementation details as such                               |          | 04/16/2020 08:44 AM |  |
| 4490 | IMSI Pseudonymization      | Feature | New      | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?                |          | 04/16/2020 08:44 AM |  |
| 4478 | IMSI Pseudonymization      | Feature | New      | Normal   | Applet: proper warning after too many LU with same IMSI  |          | 04/16/2020 08:45 AM | Related to #4478   |
| 4417 | IMSI Pseudonymization      | Bug     | New      | Normal   | Applet: LU counter should only increase on successful location update                              |          | 04/16/2020 08:45 AM | Related to #4478   |
| 4479 | IMSI Pseudonymization      | Feature | New      | Normal   | Applet: change IMSI after receiving SMS  |          | 04/16/2020 08:45 AM |  |
| 4480 | IMSI Pseudonymization      | Bug     | New      | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS                              |          | 04/16/2020 08:45 AM | Related to #4480   |
| 4481 | IMSI Pseudonymization      | Feature | New      | Low      | Applet: test various REFRESH qualifiers to possibly shorten the time for changing the IMSI         |          | 04/16/2020 08:45 AM |  |
| 4486 | IMSI Pseudonymization      | Feature | New      | Normal   | Applet: gracefully handle case where timer is set twice  |          | 04/16/2020 08:45 AM |  |
| 4403 | IMSI Pseudonymization      | Feature | Feedback | Normal   | OsmoHLR: How to interface with SMS service?  |          | 04/16/2020 08:45 AM | Blocks #4477   |
| 4477 | IMSI Pseudonymization      | Feature | New      | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477  |
| 4513 | rtl-sdr                    | Bug     | New      | Normal   | PKG information broken   |          | 04/26/2020 03:21 PM |  |
| 4305 | Distributed GSM            | Feature | Stalled  | Low      | GSUP proxy: cache auth tuples to re-use / fall back to simpler auth methods                        |          | 04/28/2020 02:37 PM | Precedes #4306   |
| 4363 | Distributed GSM            | Feature | New      | Low      | mslookup_client_mdns_test: add stubs, so it works without multicast                                |          | 04/28/2020 02:55 PM | Related to #4363   |
| 4525 | Cellular Modem Information | Feature | New      | Normal   | MTK  |          | 05/03/2020 03:57 PM | Is duplicate of #4525  |
| 4538 | OsmoBSC                    | Bug     | New      | Normal   | timeslot_fsm.c: make the PDCH act/deact timeout configurable                                       |          | 05/09/2020 08:20 PM | Related to #4539   |
| 1614 | OsmoBSC                    | Bug     | Stalled  | Normal   | better identification of BTS model / capabilities to BSC   |          | 05/12/2020 12:11 PM | Related to #1614,Related to #2316,Related to #2317,Related to #3799,Related to #3938 |
| 4551 | OsmoMGW                    | Feature | New      | Normal   | Dynamic/runtime allocation of new endpoints  |          | 05/14/2020 10:56 PM |  |
| 4552 | OsmoMGW                    | Bug     | New      | Normal   | ip-probing issue with BTS connection - no rebinding to a correct IP address                        |          | 05/14/2020 11:18 PM |  |
| 4553 | OsmoBSC                    | Bug     | New      | Normal   | OsmoBSC doesn't handle RESET IP RESOURCE BSSMAP message  |          | 05/16/2020 07:44 PM |  |
| 4554 | OsmoMGW                    | Bug     | New      | Normal   | Clean up stale endpoints after OsmoBSC crash   |          | 05/16/2020 08:52 PM |  |
| 4557 | OsmoMSC                    | Bug     | New      | Normal   | normal BSSMAP Clear Command from MSC contains cause == 0 meaning "Radio interface message failure" |          | 05/20/2020 07:17 PM |  |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|--|
| 4306 | Distributed GSM                 | Feature | Stalled | Low      | GSUP proxy cache: store data persistently   |          | 05/20/2020 09:18 PM | Precedes #4306   |
| 4580 | SDR (Software Defined Radio)    | Feature | New     | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0   |          | 06/04/2020 01:13 AM |  |
| 4581 | OsmocomBB                       | Support | New     | Normal   | compiler error assert.h no such file  |          | 06/05/2020 09:54 AM |  |
| 4588 | OsmoHLR                         | Feature | New     | Low      | OsmoHLR doesn't appear to have any statistics / counters                              |          | 06/06/2020 09:44 AM |  |
| 4589 | OsmoBSC                         | Bug     | New     | Normal   | osmo-bsc crashes with "lchan allocation failed in state WAIT_RF_RELEASE_ACK: Timeout" |          | 06/06/2020 10:40 PM |  |
| 4587 | Cellular Network Infrastructure | Feature | New     | Low      | Add port numbers to /etc/services during installation                                 |          | 06/08/2020 10:28 AM | Related to #5013   |
| 39   | OsmoBSC                         | Feature | New     | Low      | Logging filter on bts/trx or such   |          | 06/08/2020 07:07 PM |  |
| 2558 | Cellular Network Infrastructure | Feature | Stalled | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances    |          | 06/08/2020 07:07 PM | Related to #2557,Related to #2556,Related to #2555,Related to #2558,Blocks #2893 |
| 2650 | OsmoMGW                         | Bug     | New     | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?                             |          | 06/08/2020 07:08 PM | Related to #4005   |
| 3480 | OsmoBSC                         | Feature | New     | Normal   | handover from TCH/F to TCH/H to reduce load   |          | 06/08/2020 07:08 PM | Related to #3480,Related to #3481  |
| 3481 | OsmoBSC                         | Feature | New     | Normal   | handover from TCH/H to TCH/F to reduce load   |          | 06/08/2020 07:08 PM | Related to #3481,Related to #3481  |
| 3676 | OsmoGSMTester                   | Bug     | New     | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                   |          | 06/09/2020 08:39 PM |  |
| 1583 | OsmoSGSN                        | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR                                       |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1583,Related to #4485                               |
| 1599 | OsmoMSC                         | Feature | New     | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR                                       |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1747,Related to #1599,Related to #4485              |
| 4612 | OsmoMSC                         | Support | New     | Normal   | test handover on non-voice call conn (no CC transaction present)                      |          | 06/14/2020 12:21 PM |  |
| 4536 | OsmoBSC                         | Feature | New     | Normal   | Multi BTS support within a single physical device                                     |          | 06/21/2020 01:10 PM |  |
| 4631 | OsmoSGSN                        | Bug     | New     | Low      | packet/byte counters don't work for 3G  |          | 06/24/2020 06:58 AM |  |
| 4632 | OsmoMSC                         | Feature | New     | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC   |          | 06/24/2020 12:35 PM | Related to #4632   |
| 4633 | OsmoMSC                         | Feature | New     | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover                 |          | 06/24/2020 12:40 PM |  |
| 4634 | OsmoMSC                         | Feature | New     | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'             |          | 06/24/2020 06:08 PM |  |

| #    | Project                        | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                                 |
|------|--------------------------------|---------|---------|----------|--|----------|---------------------|--|
| 4635 | libosmo-sccp + libosmo-sigtran | Feature | New     | Normal   | quirks when initializing SS7 ASP   |          | 06/25/2020 04:46 PM | Related to #4635                               |
| 4637 | OsmoTRX                        | Bug     | New     | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints  |          | 06/29/2020 04:43 PM |  |
| 4642 | OsmoNITB                       | Bug     | New     | Low      | Attempting to set illegal id for FSM instance of type 'OM2000-MO'  |          | 07/03/2020 06:40 PM |  |
| 4647 | OsmoBSC                        | Bug     | New     | Low      | Getting attributes from BTS0 type nokia_site is not supported.   |          | 07/04/2020 09:05 AM |  |
| 4640 | OsmoBSC                        | Feature | New     | Low      | SI2quater: support multiple EUTRAN Neighbor Cells List entries, not only multiple EUTRAN Cell Descriptions in the first Cells List entry |          | 07/06/2020 03:03 PM |  |
| 4653 | SDR (Software Defined Radio)   | Bug     | New     | Normal   | cannot import name 'fosphor'   |          | 07/07/2020 02:39 AM |  |
| 4660 | OsmoMSC                        | Bug     | New     | Normal   | GSM AUTH failure: mismatching sres - with module TRM-5 ext   |          | 07/12/2020 08:01 PM |  |
| 4677 | SDR (Software Defined Radio)   | Bug     | New     | Normal   | fopher crash on OSX with Qt  |          | 07/27/2020 03:27 AM |  |
| 4682 | OsmoBSC                        | Feature | New     | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20  |          | 07/30/2020 06:51 AM | Precedes #4682                                 |
| 4685 | SDR (Software Defined Radio)   | Bug     | New     | Normal   | Can't compile libusrp  |          | 08/04/2020 08:52 AM |  |
| 4705 | Distributed GSM                | Bug     | New     | Normal   | osmo-hlr user manual: explain the mslookup domain suffix "mdns.osmocom.org", it has no mention in the user manual                        |          | 08/13/2020 12:54 AM |  |
| 4717 | OsmoMSC                        | Feature | New     | Normal   | support Handover with changing codec   |          | 08/18/2020 05:14 PM | Related to #4717                               |
| 4720 | rtl-sdr                        | Bug     | New     | Normal   | rtl_power reports invalid values   |          | 08/19/2020 02:47 PM |  |
| 3806 | OsmoBSC                        | Bug     | Stalled | Normal   | OsmoBSC accepts BSSAP with wrong length field  |          | 08/28/2020 08:15 PM | Related to #3806                               |
| 4737 | Distributed GSM                | Support | New     | Low      | How to configure Queries gsup.hlr.123456789.imsi, sip.voice.123.msidsn, smpp.sms.123.msidsn  |          | 08/31/2020 11:10 AM |  |
| 4599 | OsmoSGSN                       | Bug     | New     | Normal   | counter group sgsn:pdpctx already exists for index X, instead using Y  |          | 09/09/2020 10:05 AM | Related to #4604                               |
| 4764 | OsmoMSC                        | Bug     | New     | Normal   | make sure Assignment times out, always   |          | 09/23/2020 02:08 PM |  |
| 4762 | osmo-sip-connector             | Feature | New     | Low      | Osmo Analog Support  |          | 09/25/2020 07:31 AM | Related to #4763                               |
| 4766 | OsmoBSC                        | Bug     | New     | Normal   | pcu interface: add app info request  |          | 09/26/2020 10:21 PM |  |
| 4767 | OsmoBSC                        | Bug     | New     | Normal   | pcu interface: add suspend request support   |          | 09/29/2020 04:40 PM |  |
| 1546 | OsmoPCU                        | Feature | New     | Low      | closed loop uplink power control   |          | 09/30/2020 08:05 PM |  |
| 3341 | OsmoTRX                        | Bug     | Stalled | High     | osmo-trx-lms RF Envelope FAIL on LimeSDR, but not on LimeSDR-mini  |          | 09/30/2020 08:08 PM | Related to #3341,Related to #3861,Blocks #3341 |
| 3981 | OsmoTRX                        | Bug     | New     | Normal   | osmo-trx-lms: Overruns appear from time to time  |          | 09/30/2020 08:08 PM | Related to #3981                               |
| 3949 | OsmoTRX                        | Bug     | New     | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)   |          | 09/30/2020 08:08 PM | Related to #4468                               |
| 4151 | OsmoGSMTester                  | Bug     | Stalled | Normal   | osmo-gsm-tester: osmo-trx-lms process sometimes kept forever in zombie-alike state after killing it                                      |          | 09/30/2020 08:08 PM | Related to #4151                               |
| 4504 | OsmoTRX                        | Feature | New     | Low      | Buidl LimeSuite without GUI in osmocom feeds   |          | 09/30/2020 08:08 PM |  |

| #    | Project            | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                         |
|------|--------------------|---------|----------|----------|--|----------|---------------------|--|
| 3775 | OsmoTRX            | Bug     | Stalled  | Normal   | properly debug limesdr usb and limesdr mini clocking requirements and osmo-trx support         |          | 09/30/2020 08:09 PM | Blocks #3341,Blocks #3342,Blocks #3775 |
| 4362 | OsmoTRX            | Feature | Stalled  | Normal   | osmo-trx-lms: Support multi-arfcn feature  |          | 09/30/2020 08:09 PM | Related to #4362,Related to #4362      |
| 4222 | OsmoSGSN           | Bug     | New      | High     | Implement PS Paging for the Routing Areas  |          | 10/03/2020 02:20 PM | Related to #4222                       |
| 4783 | libosmocore        | Bug     | New      | Low      | doxygen: duplicate 'ports.h' warning   |          | 10/07/2020 01:29 PM |  |
| 4312 | OsmoHLR            | Bug     | New      | High     | GSUP keepalives / connection loss detection  |          | 10/12/2020 02:42 PM |  |
| 4806 | osmo-ccid-firmware | Feature | New      | Low      | Add support of T=1?  |          | 10/15/2020 03:40 PM |  |
| 4812 | OsmoPCU            | Feature | New      | Low      | RTTI (Reduced Transmission Time Interval) Support  |          | 10/16/2020 08:43 AM |  |
| 4813 | OsmoPCU            | Feature | New      | Low      | FANR (Fast ACK/NACK Reporting) support   |          | 10/16/2020 08:46 AM |  |
| 1686 | osmo-sip-connector | Feature | New      | Normal   | osmo-sip-connector: Implement call holding on SIP  |          | 10/20/2020 08:36 AM |  |
| 1624 | OsmoPCU            | Bug     | New      | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs   |          | 10/20/2020 08:37 AM |  |
| 1946 | OsmoBSC            | Feature | New      | Low      | Add checks to the BSC VTY to prevent configurations known to not work                          |          | 10/20/2020 08:40 AM | Related to #1614                       |
| 2883 | OsmoMSC            | Bug     | New      | Normal   | GSUP encoding of MSISDN is wrong   |          | 10/20/2020 08:41 AM | Related to #4324,Related to #4333      |
| 1640 | OsmoPCU            | Bug     | Feedback | Low      | Missing release field/length in MS RA capability container                                     |          | 10/20/2020 09:19 AM |  |
| 4825 | OsmoSGSN           | Bug     | New      | Normal   | security command is missing sometimes  |          | 10/22/2020 02:40 AM |  |
| 4827 | OsmoBTS            | Bug     | New      | Normal   | OsmoBTS VTY is lacking various vital information   |          | 10/23/2020 07:14 PM |  |
| 4846 | OsmoPCU            | Feature | New      | Normal   | change RBB received block bitmap into 1s when everything was acked                             |          | 11/04/2020 02:29 AM |  |
| 4847 | OsmoPCU            | Bug     | New      | Normal   | fix LLC-DISCARD behaviour  |          | 11/04/2020 02:37 AM | Related to #4847                       |
| 4858 | OsmoBSC            | Bug     | New      | Normal   | handover CHANnel ACTIVation: BSC sends timing advance for lchan activation in a different cell |          | 11/10/2020 05:41 PM |  |
| 4746 | libosmocore        | Bug     | New      | Normal   | gb: NS2: implement a NSE based logfilter   |          | 11/14/2020 08:42 AM |  |
| 4863 | OsmoMSC            | Bug     | New      | Low      | T3212 is unclear in config/vty   |          | 11/19/2020 06:10 PM |  |
| 4488 | OsmoPCU            | Feature | New      | Normal   | have uplink/downlink tests for all CS/MCS  |          | 11/25/2020 07:28 PM | Related to #4488,Related to #4510      |
| 4019 | OsmoPCU            | Bug     | New      | Normal   | implement a command to show all informations from the bts                                      |          | 11/25/2020 07:33 PM |  |
| 4885 | libosmocore        | Bug     | New      | Normal   | configure doesn't check for python3  |          | 12/02/2020 03:36 AM |  |
| 4884 | OsmoBSC            | Bug     | New      | Normal   | RLL_REL_IND is recieved after RF_CHAN_REL  |          | 12/02/2020 11:51 AM |  |
| 4886 | OsmoSGSN           | Bug     | New      | Normal   | UE does not connect data when moving from 2G->3G   |          | 12/04/2020 01:29 AM |  |
| 4893 | osmo-gbproxy       | Feature | New      | Low      | gbproxy2: Make feature bitmap configurable   |          | 12/08/2020 07:55 AM | Related to #4893                       |
| 4900 | OsmoGSMTester      | Feature | New      | Low      | hardware and wiring verification / selftest  |          | 12/08/2020 11:03 AM |  |

| #    | Project                           | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|-----------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 4930 | OsmoBSC                           | Bug     | New    | Normal   | bsc: cbc: vty: "no remote-ip" in cbc > client  |          | 12/31/2020 10:42 PM |                  |
| 4925 | libosmo-sccp +<br>libosmo-sigtran | Bug     | New    | Normal   | SCTP multihoming / ABORT between osmo-msc and osmo-stp                                 |          | 01/04/2021 11:32 AM | Related to #4926 |
| 4926 | OsmoHNBGW                         | Bug     | New    | Normal   | nano3G disconnect / reconnect cycle with SCTP multi-homing                             |          | 01/04/2021 11:38 AM | Related to #4926 |
| 4337 | OsmoMSC                           | Bug     | New    | Normal   | osmo-msc: Don't send LU-Reject after LU-Accept if no TMSI Realloc Complete is received |          | 01/07/2021 06:22 PM | Related to #4337 |

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