

## Issues

| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee   | Updated             | Related issues   |
|------|---------------------------------------|---------|--------|----------|--|------------|---------------------|------------------|
| 3819 | gr-osmosdr                            | Support | New    | Urgent   | OSMO SDR blocks for GNUradio   |            | 02/28/2019 06:00 PM |                  |
| 4206 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Urgent   | Unbrick cpe router without web ui interface and terminal                           |            | 09/16/2019 10:41 AM |                  |
| 2623 | Cellular Network Infrastructure       | Feature | New    | Urgent   | SCCP/M3UA: detect restart of osmo-msc and osmo-sgsn                                | laforge    | 07/18/2019 05:18 AM | Related to #3403 |
| 3883 | osmo-remsim                           | Bug     | New    | Urgent   | osmo-remsim user manual lacks examples   | laforge    | 07/16/2019 02:43 PM |                  |
| 2620 | Cellular Network Infrastructure       | Bug     | New    | Urgent   | Testing NITB Migration Guide   | roh        | 05/08/2019 02:40 PM | Related to #2620 |
| 4251 | SIMtrace 2                            | Bug     | New    | Urgent   | simtrace2 firmware can get OOM / talloc unable to allocate buffer for APDU         | tsaitgaist | 11/07/2019 02:34 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 |                  |
| 1505 | UmTRX                                 | Bug     | New    | High     | OHM4 footprint incorrect   |            | 02/19/2016 10:52 PM |                  |
| 1477 | Mobile (in)Security                   | Bug     | New    | High     | RACH flood DoS   |            | 02/21/2016 04:34 PM |                  |
| 1478 | Mobile (in)Security                   | Bug     | New    | High     | IMSI DETACH DoS  |            | 09/02/2019 09:00 AM |                  |
| 1480 | Mobile (in)Security                   | Bug     | New    | High     | A5/3 is not deployed in GSM networks   |            | 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 |                  |
| 1483 | Mobile (in)Security                   | Bug     | New    | High     | USSD state is not reset when switching cells                                       |            | 02/21/2016 04:34 PM |                  |
| 1542 | OsmoPCU                               | Bug     | New    | High     | Post gsmtap/EGPRS patch to the wireshark project                                   |            | 07/18/2019 03:59 PM |                  |
| 1722 | pySim                                 | Feature | New    | High     | Improve pySim usability  |            | 08/17/2016 03:57 PM |                  |
| 2155 | OP25                                  | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.                               |            | 04/22/2017 04:16 PM |                  |
| 2156 | OP25                                  | Feature | New    | High     | Implement forward error correction for HDU.  |            | 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 |                  |
| 2158 | OP25                                  | Feature | New    | High     | Create a shared library for decoding for WireShark and the decoder.                |            | 04/22/2017 04:16 PM |                  |
| 2160 | OP25                                  | Feature | New    | High     | Add "datascope" to usrp_p25_rx.py  |            | 04/22/2017 04:16 PM |                  |
| 2162 | OP25                                  | Bug     | New    | High     | Fix bit-ordering in output for VC55.   |            | 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 |                  |
| 2167 | OP25                                  | Feature | New    | High     | Implement Encryption/Decryption P25 blocks   |            | 04/22/2017 04:15 PM |                  |
| 2168 | OP25                                  | Bug     | New    | High     | Implement Forward error correction for LDU1/2                                      |            | 04/22/2017 04:15 PM |                  |
| 1982 | libosmocore                           | Bug     | New    | High     | LAPD: segfault in lapd_est_req function  |            | 07/18/2019 05:49 AM | Related to #1982 |
| 2169 | OP25                                  | Bug     | New    | High     | First-cut of trunking support  |            | 04/22/2017 04:15 PM |                  |
| 2171 | OP25                                  | Feature | New    | High     | Use libfftw3 for IFFT/FFT functions.   |            | 04/22/2017 04:14 PM |                  |
| 2172 | OP25                                  | Bug     | New    | High     | HDU often missing in captures  |            | 04/22/2017 04:14 PM |                  |

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|------|---------------------------------|---------|--------|----------|--|------------------------|---------------------|--|
| 2173 | OP25                            | Feature | New    | High     | Remove dependency on ET++  |                        | 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 |  |
| 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 |  |
| 3476 | OsmoBSC                         | Support | New    | High     | osmo-bsc manual needs to explain the AoIP config 'cs7 instance'  |                        | 08/20/2018 09:06 AM |  |
| 4222 | OsmoSGSN                        | Bug     | New    | High     | Implement PS Paging for the Routing Areas  |                        | 10/08/2019 04:30 PM |  |
| 3734 | gr-osmosdr                      | Bug     | New    | High     | Cannot compile gr-osmocom  |                        | 12/16/2018 12:22 AM |  |
| 2363 | OpenBSC                         | Support | New    | High     | migrate important branches from openbsc.git to new osmo-{msc,bsc,mgw,sgsn}.git                                     | Osmocom CNI Developers | 09/12/2018 02:41 PM |  |
| 2767 | OsmoBSC                         | Bug     | New    | High     | OsmoBSC user manual doesn't specify how to configure M3UA link (asp/as)  | daniel                 | 03/16/2018 07:52 PM |  |
| 2698 | OsmoMSC                         | Bug     | New    | High     | Add more tests to jenkins job testing osmo-msc against NG40tester  | daniel                 | 08/02/2018 09:38 AM | Related to #2477   |
| 2722 | OsmoBSC                         | Feature | New    | High     | document RACH tuning parameters more thoroughly, give explanations   | daniel                 | 08/02/2018 09:46 AM | Related to #2591,Related to #1611,Related to #2592,Related to #2722                  |
| 3127 | Cellular Network Infrastructure | Bug     | New    | High     | update the [[Osmocom Network In The Box]] wiki page  | daniel                 | 05/08/2019 02:37 PM |  |
| 4113 | OsmoBSC                         | Bug     | New    | High     | osmo-bsc fails to compile on openSUSE Tumbleweed (gcc 9.1 with LTO enabled)  | Hoernchen              | 07/19/2019 09:36 PM | Related to #4114,Related to #4115,Related to #4113,Related to #4116,Related to #4123 |
| 1507 | UmTRX                           | Feature | New    | High     | Implement UmSEL tuner control  | ipse                   | 02/21/2016 04:47 PM |  |
| 1508 | UmTRX                           | Feature | New    | High     | Implement UmSEL diversity switch control   | ipse                   | 02/21/2016 04:47 PM |  |
| 1510 | UmTRX                           | Feature | New    | High     | Complete UHD integration   | ipse                   | 02/21/2016 04:47 PM |  |
| 1943 | Linux Kernel GTP-U              | Feature | New    | High     | test setup for Linux kernel GTP-U tunneling module   | laforge                | 05/30/2018 02:56 PM |  |
| 2547 | OsmoMGW                         | Feature | New    | High     | Add E1/T1 endpoint type to osmo-mgw  | laforge                | 09/04/2019 09:06 AM | Related to #2547,Related to #3965,Related to #2659                                   |
| 2548 | OsmoBSC                         | Feature | New    | High     | Add support for E1/T1 based BTSs to OsmoBSC  | laforge                | 09/04/2019 09:07 AM | Related to #2547,Related to #3965,Related to #2548                                   |
| 2659 | OsmoMGW                         | Feature | New    | High     | prepare osmo-mgw architecture for other endpoint types   | laforge                | 09/04/2019 09:06 AM | Related to #3260,Related to #2659  |

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| 3303 | Osmocom.org Servers          | Feature | New    | High     | migrate openmoko.org into "archive mode" and remove dedicated server for it                   | laforge   | 10/07/2018 03:27 PM | Related to #3303                                   |
| 3260 | E1/T1 Hardware Interface     | Bug     | New    | High     | Implement libosmo-abis input for new E1 interface   | laforge   | 07/18/2019 05:34 AM | Related to #3965,Related to #3260                  |
| 3977 | OsmoCBC                      | Feature | New    | High     | SABP stream delineation routines  | laforge   | 09/23/2019 04:49 AM | Related to #3979                                   |
| 1560 | OsmoPCU                      | Feature | New    | High     | EDGE benchmarking / performance optimization / tuning   | lynxis    | 07/18/2019 05:13 AM |  |
| 1546 | OsmoPCU                      | Feature | New    | High     | closed loop uplink power control  | lynxis    | 04/18/2019 02:38 PM |  |
| 1742 | OsmoPCU                      | Bug     | New    | High     | Regression in egprs patch series  | lynxis    | 04/15/2019 07:47 AM | Related to #1756,Related to #2820,Related to #2890 |
| 1925 | OsmoPCU                      | Bug     | New    | High     | Fix padding for MCS8 transition   | lynxis    | 04/15/2019 07:45 AM |  |
| 2955 | OsmoSGSN                     | Bug     | New    | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error   | lynxis    | 09/10/2019 07:39 PM |  |
| 3926 | OsmoPCU                      | Bug     | New    | High     | Missing PCU_Tests.ttcn DL TBF tests   | lynxis    | 04/15/2019 07:55 AM |  |
| 3925 | OsmoPCU                      | Bug     | New    | High     | Missing PCU_Tests.ttcn UL TBF tests   | osmith    | 09/05/2019 05:08 PM | Related to #3925,Related to #4180                  |
| 4095 | libosmocore                  | Bug     | New    | High     | osmo_get_rand_id() can fail under debian jessie   | osmith    | 07/18/2019 05:50 AM |  |
| 3751 | OsmoBTS                      | Support | New    | High     | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx} | pespin    | 07/18/2019 06:05 AM |  |
| 3459 | gr-gsm                       | Bug     | New    | High     | apps/grgsm_trx: AssertionError: packe t_info.packet_count == (seq_to_ack & 0xffff)            | ptrkrysik | 08/10/2018 07:58 AM |  |
| 4021 | osmo-remsim                  | Support | New    | High     | long-term end-to-end osmo-remsim test setup   | roh       | 10/18/2019 02:51 PM |  |
| 1474 | SDR (Software Defined Radio) | Bug     | New    | High     | USB Claim Interface Error   | steve-m   | 02/20/2016 08:23 PM |  |
| 2175 | OP25                         | Feature | New    | High     | Update code for GNURadio 3.6 and later  | stevie    | 04/22/2017 04:14 PM |  |
| 1458 | OsmocomBB                    | Bug     | New    | High     | AGC broken (strong cell cannot be synced  | tnt       | 07/18/2019 06:10 AM | Related to #3582                                   |
| 3032 | OsmoBTS                      | Bug     | New    | High     | (Wrong?) measurement of both RSSI and ToA on TCH channels                                     | tnt       | 11/26/2018 02:32 PM | Related to #2977,Related to #3032                  |
| 34   | OsmoBSC                      | Bug     | New    | Normal   | ipaccess init code needs proper state machines  |           | 12/10/2017 08:16 PM | Related to #34                                     |
| 48   | OsmoNITB                     | Bug     | New    | Normal   | Periodic timer and paging   |           | 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 |  |
| 37   | OsmoNITB                     | Bug     | New    | Normal   | RTP Proxy dealing with SSRC change and sequence numbers                                       |           | 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 |  |
| 41   | OsmoMSC                      | Bug     | New    | Normal   | Numbering Plan in OsmoMSC   |           | 06/23/2018 07:37 PM |  |
| 1479 | Mobile (in)Security          | Bug     | New    | Normal   | MTK stack unable to send MO-SMS on TCH/F  |           | 04/03/2019 09:01 AM |  |

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| 1482 | Mobile (in)Security                   | Bug     | New    | Normal   | Sending the TMSI of the old/previous network                                  |          | 02/21/2016 04:35 PM |   |
| 1511 | UmTRX                                 | Feature | New    | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals                            |          | 02/19/2016 10:52 PM |   |
| 1549 | OsmoPCU                               | Feature | New    | Normal   | DRX support for GPRS  |          | 02/04/2017 08:11 AM |   |
| 1554 | OsmoPCU                               | Feature | New    | Normal   | per-MS BSSGP flow control   |          | 02/23/2016 03:12 PM | Related to #1554  |
| 1556 | OsmoPCU                               | Feature | New    | Normal   | Inter-RAT hand-over   |          | 02/23/2016 03:13 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 |   |
| 1577 | OsmoBTS                               | Bug     | New    | Normal   | mph_send_config_logchpar doesn't update encryption config                     |          | 02/23/2016 03:39 PM |   |
| 1583 | OsmoSGSN                              | Feature | New    | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR                               |          | 04/14/2019 05:12 AM | Related to #1583,Related to #1583                                   |
| 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 |   |
| 1599 | OsmoMSC                               | Feature | New    | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR                               |          | 10/29/2017 09:07 PM | Related to #1583,Related to #1747,Related to #1599                  |
| 1652 | Cellular Network Infrastructure       | Bug     | New    | Normal   | Expose statistics / KPIs programmatically                                     |          | 03/10/2017 09:35 PM | Related to #1652,Related to #1652,Related to #1652,Related to #1766 |
| 1667 | OsmoNITB                              | Feature | New    | Normal   | Handle callref better   |          | 09/04/2019 09:31 AM | Related to #3294  |
| 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 |   |
| 1716 | libosmocore                           | Feature | New    | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717                                     |
| 1762 | libosmocore                           | Bug     | New    | Normal   | Review LAPD code for race conditions regarding state, particularly in RELEASE |          | 07/03/2016 08:44 PM | Related to #1760,Related to #1761,Related to #1982                  |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New    | Normal   | cat /dev/snd/* causes kernel oops   |          | 09/30/2016 04:00 PM |   |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Normal   | tool for building binary ipk from .list/.control                              |          | 10/02/2016 05:06 AM |   |
| 1852 | OsmoBTS                               | Feature | New    | Normal   | DTX support for osmo-bts-trx  |          | 02/08/2017 04:09 PM | Is duplicate of #1750   |

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|------|--|---------|--------|----------|--|----------|---------------------|--|
| 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      |
| 1829 | OsmoNITB                                   | Bug     | New    | Normal   | Fix warnings introduced by ctrl constify                           |          | 03/05/2018 07:34 PM |  |
| 1900 | osmo-qcdiag                                | Feature | New    | Normal   | osmo-qcdiag: Add FUSE based access for EFS                         |          | 01/11/2017 12:15 PM |  |
| 1901 | osmo-qcdiag                                | Feature | New    | Normal   | osmo-qcdiag: Ability to read/write NV data                         |          | 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 |  |
| 1832 | Linux Kernel GTP-U                         | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5                                    |          | 10/27/2016 08:56 AM |  |
| 1858 | OsmoBSC                                    | Feature | New    | Normal   | make BSC also generate ALERTs                                      |          | 12/10/2017 07:59 PM |  |
| 1866 | OsmoBSC                                    | Feature | New    | Normal   | Make use of RSL RF RESOURCE INDICATION (interference measurements) |          | 12/10/2017 08:15 PM | Related to #1569                       |
| 1896 | OsmoGGSN (former OpenGGSN)                 | Bug     | New    | Normal   | ggsn unable to set tun interface on FreeBSD v11                    |          | 12/23/2016 03:36 AM |  |
| 1952 | Linux Kernel GTP-U                         | Bug     | New    | Normal   | IPv6 support for inner (user) IP layer missing                     |          | 02/18/2017 12:29 PM |  |
| 1899 | osmo-qcdiag                                | Bug     | New    | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working             |          | 01/11/2017 12:15 PM |  |
| 1904 | OsmoNITB                                   | Bug     | New    | Normal   | get rid of deprecated functions                                    |          | 03/05/2018 07:33 PM |  |
| 1953 | Linux Kernel GTP-U                         | Bug     | New    | Normal   | IPv6 support for outer (transport) IP layer missing                |          | 02/19/2017 04:45 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 |  |
| 1984 | Osmocom.org Servers                        | Feature | New    | Normal   | make list archives more readable/accessible                        |          | 03/15/2017 11:20 AM |  |
| 1916 | OsmocomBB                                  | Bug     | New    | Normal   | building GNU ARM toolchain with gcc-4.8 fails on modern texinfo    |          | 10/16/2017 02:14 PM |  |
| 1955 | OsmoNITB                                   | Bug     | New    | Normal   | Investigate "Bad signalling message" error                         |          | 03/05/2018 07:33 PM |  |
| 1987 | libosmocore                                | Feature | New    | Normal   | gcov code coverage test support                                    |          | 03/17/2017 01:05 PM | Related to #1987,Is duplicate of #1987 |
| 1997 | OsmoHNBGW                                  | Feature | New    | Normal   | Improve error check at compilation time                            |          | 04/10/2017 11:12 AM |  |
| 2179 | Osmocom Conferences (OsmoDevCon + OsmoCon) | Bug     | New    | Normal   | no sign about OsmoCon outside of venue                             |          | 04/24/2017 07:10 PM |  |
| 2191 | OsmoMSC                                    | Feature | New    | Normal   | raw PDU mode for SMPP  |          | 12/23/2017 05:48 PM |  |
| 2224 | SDR (Software Defined Radio)               | Feature | New    | Normal   | New Fospor Benchmark Performance                                   |          | 05/04/2017 01:23 PM |  |
| 2216 | gr-osmosdr                                 | Bug     | New    | Normal   | uhd: LO offset doesn't seem to work properly                       |          | 06/03/2018 12:08 PM |  |
| 2292 | Osmocom Conferences (OsmoDevCon + OsmoCon) | Bug     | New    | Normal   | Time with community users during OsmoCon                           |          | 05/25/2017 03:03 PM |  |
| 2378 | OsmocomBB                                  | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git |          | 10/24/2018 02:13 PM |  |
| 2382 | OsmoBSC                                    | Bug     | New    | Normal   | T3105 not consistently communicated to all BTS models              |          | 03/05/2018 07:02 PM |  |

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| 2390 | OsmoMSC                      | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages                                 |          | 12/23/2017 05:48 PM |  |
| 2470 | OsmoBSC                      | Feature | New    | Normal   | Proper OML MO (managed object) using osmo_fsm                                 |          | 12/10/2017 08:16 PM | Related to #34,Related to #2470,Related to #3782   |
| 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                  |
| 2438 | OsmoNITB                     | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV             |          | 08/14/2017 09:36 AM |  |
| 2607 | rtl-sdr                      | Bug     | New    | Normal   | rtl-sdr gnuradio cfile is outdated  |          | 06/03/2018 12:23 PM |  |
| 2459 | OsmoMGW                      | Feature | New    | Normal   | remove nano3G luUP "Initialization ACK" hack when luUP proxy is in place      |          | 05/30/2018 02:59 PM | Related to #3411,Precedes #2459                    |
| 2677 | libosmocore                  | Support | New    | Normal   | Make stat_item available over ctrl interface                                  |          | 09/04/2019 09:21 AM | Related to #2676                                   |
| 2681 | Osmocom.org Servers          | Bug     | New    | Normal   | bogus user accounts + spam  |          | 11/23/2017 06:59 PM |  |
| 2682 | libosmocore                  | Feature | New    | Normal   | replace legacy counters with rate_ctr   |          | 09/04/2019 09:21 AM |  |
| 2697 | osmo-qcdiag                  | Feature | New    | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories |          | 11/30/2017 06:03 PM |  |
| 2781 | OsmoBSC                      | Feature | New    | Normal   | Extend OsmBSC TTCN-3 test coverage regarding resource leaks                   |          | 07/18/2019 05:04 AM | Related to #2781                                   |
| 2688 | libosmocore                  | Bug     | New    | Normal   | CTRL iface: make rate_ctr request parser more strict                          |          | 11/29/2017 01:40 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 |  |
| 2690 | OsmocomBB                    | Bug     | New    | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access                             |          | 11/29/2017 09:33 AM |  |
| 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 |  |
| 2694 | OsmocomBB                    | Bug     | New    | Normal   | SIGSEGV in lapdm code   |          | 11/30/2017 08:45 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 |  |
| 2764 | SDR (Software Defined Radio) | Support | New    | Normal   | osmocom_fft & siggen can't access the X display                               |          | 12/15/2017 06:09 PM |  |
| 2981 | OsmoMGW                      | Bug     | New    | Normal   | make check: mgcp test failed  |          | 02/22/2018 10:14 AM | Related to #2981,Related to #2982,Related to #2981 |
| 2797 | linmodem                     | Bug     | New    | Normal   | X11 support is 16bit plane only   |          | 01/01/2018 02:48 PM |  |
| 2798 | linmodem                     | Feature | New    | Normal   | ALSA Soundcard Support  |          | 01/01/2018 12:02 PM |  |
| 2799 | linmodem                     | Feature | New    | Normal   | SIP client support  |          | 01/01/2018 12:04 PM |  |
| 2800 | linmodem                     | Feature | New    | Normal   | Interop testing with real modems  |          | 01/01/2018 12:16 PM |  |

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| 2995 | OsmocomBB                                  | Bug     | New    | Normal   | Wrong parsing of PAGING TYPE 3   |          | 02/24/2018 11:03 PM | Related to #2994                       |
| 2801 | linmodem                                   | Feature | New    | Normal   | V.90 completion  |          | 01/01/2018 12:18 PM |  |
| 3038 | multi-voltage USB UART                     | Feature | New    | Normal   | Add mounting holes?  |          | 03/07/2018 02:12 AM |  |
| 2815 | linmodem                                   | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)   |          | 01/01/2018 02:48 PM |  |
| 3097 | OsmoBSC                                    | Feature | New    | Normal   | ramping of "rxlev access min"  |          | 03/22/2018 11:51 AM | Related to #3097                       |
| 3200 | Osmocom Conferences (OsmoDevCon + OsmoCon) | Bug     | New    | Normal   | OsmoDevCon: Use loudspeakers even at IN-Berlin                                 |          | 04/23/2018 06:53 PM |  |
| 3201 | Osmocom Conferences (OsmoDevCon + OsmoCon) | Bug     | New    | Normal   | OsmoDevCon: Add one more rectangular table                                     |          | 04/23/2018 07:00 PM |  |
| 3240 | gr-osmosdr                                 | Bug     | New    | Normal   | Expose airspy gain setting in gr-osmosdr block                                 |          | 06/03/2018 12:08 PM |  |
| 2916 | OsmoMSC                                    | Bug     | New    | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                       |          | 02/09/2018 04:20 PM |  |
| 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 |  |
| 3344 | OsmoTRX                                    | Feature | New    | Normal   | merge ttsou/siggen   |          | 06/13/2018 07:26 PM |  |
| 2949 | OsmoBSC                                    | Feature | New    | Normal   | use RR Assignment for Handover within a cell                                   |          | 02/16/2018 02:52 PM | Related to #3357,Is duplicate of #3277 |
| 3425 | gr-gsm                                     | Bug     | New    | Normal   | Receiver: missing AGC (Automatic Gain Control)                                 |          | 07/26/2018 08:25 PM |  |
| 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      |
| 3479 | OsmoBSC                                    | Feature | New    | Normal   | test "every single failure" in osmo-bsc FSMs                                   |          | 08/20/2018 11:15 AM | Related to #3479                       |
| 3480 | OsmoBSC                                    | Feature | New    | Normal   | handover from TCH/F to TCH/H to reduce load                                    |          | 10/16/2018 01:15 PM | Related to #3480,Related to #3481      |
| 3481 | OsmoBSC                                    | Feature | New    | Normal   | handover from TCH/H to TCH/F to reduce load                                    |          | 10/16/2018 01:15 PM | Related to #3481,Related to #3481      |
| 3588 | rtl-sdr                                    | Bug     | New    | Normal   | Error Values Inconsistent  |          | 09/25/2018 12:47 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 |  |
| 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 |  |
| 3141 | OsmoTRX                                    | Bug     | New    | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation                  |          | 04/05/2018 05:46 PM |  |
| 3606 | OsmoSTP                                    | Feature | New    | Normal   | Support for multiple NI (network indicator)                                    |          | 10/03/2018 08:58 AM |  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues        |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------|
| 3156 | OsmoMSC                         | Feature | New    | Normal   | make sure we handle N overlapping CM Service Requests properly  |          | 04/11/2018 11:50 AM | Is duplicate of #3069 |
| 3629 | OsmocomBB                       | Bug     | New    | Normal   | mobile aborting after 'test re-selection 1' on vty  |          | 10/04/2018 02:58 PM |                       |
| 3658 | Cellular Modem Information      | Feature | New    | Normal   | Create a "osmocom-bb-host-latest" docker container  |          | 10/16/2018 02:11 PM | Related to #3658      |
| 3663 | gr-osmosdr                      | Bug     | New    | Normal   | Can't compile gr-osmosdr on macOS Mojave  |          | 10/19/2018 02:37 PM |                       |
| 3669 | OsmocomBB                       | Bug     | New    | Normal   | empty IMSI in vty   |          | 10/24/2018 04:15 PM |                       |
| 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 |                       |
| 3672 | Osmocom Analog                  | Feature | New    | Normal   | Custom announcement and tones   |          | 10/25/2018 05:10 PM |                       |
| 3687 | OsmoMSC                         | Feature | New    | Normal   | Expand "show bsc" command   |          | 11/11/2018 09:50 PM |                       |
| 3278 | OsmoNITB                        | Bug     | New    | Normal   | Disconnected ESME socket leaves esme entry in smsc->esme_list   |          | 05/18/2018 12:04 AM |                       |
| 3308 | Osmocom.org Servers             | Bug     | New    | Normal   | jenkins: master-asn1c build: "error: 'param' undeclared"  |          | 08/20/2018 04:09 PM |                       |
| 3309 | libosmocore                     | Feature | New    | Normal   | osmo_timer_* should use monotonic clock   |          | 05/31/2018 03:59 PM | Related to #3309      |
| 3354 | Osmocom.org Servers             | Bug     | New    | Normal   | Gerrit: wrong redirect URL after signing in   |          | 06/18/2018 09:20 PM |                       |
| 3817 | SDR (Software Defined Radio)    | Bug     | New    | Normal   | Unable to use fospor display on Ubuntu 18.10  |          | 02/26/2019 06:56 PM |                       |
| 3829 | OsmoMSC                         | Bug     | New    | Normal   | osmo-msc expects aoip TLV in Assignement Complete messages from BSC   |          | 03/07/2019 08:30 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 |                       |
| 3417 | Cellular Network Infrastructure | Bug     | New    | Normal   | show asciidoc counters does not show all the counters available   |          | 09/04/2019 09:21 AM | Related to #3417      |
| 3442 | OsmoMGW                         | Bug     | New    | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c   |          | 09/04/2019 09:26 AM |                       |
| 3443 | OsmoMGW                         | Bug     | New    | Normal   | Check audio-payload options in osmo-mgw VTY   |          | 08/02/2018 03:59 PM |                       |
| 3477 | Cellular Network Infrastructure | Feature | New    | Normal   | add a wiki page explaining interconnection between components across several machines   |          | 09/04/2019 09:21 AM |                       |
| 3909 | libosmocore                     | Bug     | New    | Normal   | osmo_get_rand_id() fails in containerised environment   |          | 04/07/2019 04:05 PM | Related to #3909      |
| 3474 | OsmoBSC                         | Bug     | New    | Normal   | SDCCH not released if Radio Link Failure / Sending Connection Failure: cause = 0x001 Experienced in osmo-bsc and osmo-bts-trx |          | 08/20/2018 01:02 AM |                       |
| 3923 | OsmoSGSN                        | Bug     | New    | Normal   | lu: Respond to SecurityCommandReject messages   |          | 04/24/2019 08:26 AM | Related to #3923      |
| 3940 | OsmoSGSN                        | Bug     | New    | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |                       |
| 3958 | testproject                     | Bug     | New    | Normal   | ./mobile select ARFCN   |          | 04/25/2019 09:49 AM |                       |
| 3968 | E1/T1 Hardware Interface        | Feature | New    | Normal   | find enclosure for ICE40 E1 board   |          | 04/30/2019 09:41 AM |                       |
| 3490 | OsmoMGW                         | Feature | New    | Normal   | Add config option to allow arbitrary domain names in endpoints  |          | 08/20/2018 10:08 PM | Related to #3490      |



| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 4019 | OsmoPCU                               | Bug     | New    | Normal   | implement a command to show all informations from the bts  |          | 05/23/2019 03:08 PM |                                   |
| 3531 | OP25                                  | Bug     | New    | Normal   | Unknown status of the p25 wireshark plugin   |          | 09/07/2018 02:46 PM |                                   |
| 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 |
| 4033 | OsmoGGSN (former OpenGGSN)            | Feature | New    | Normal   | ttcn3-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 |                                   |
| 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 |                                   |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Normal   | how to use network inside ec20   |          | 07/31/2019 11:20 AM |                                   |
| 4143 | libosmo-ranap                         | Feature | New    | Normal   | Security Mode Command needs distinct UEA1 and UEA2 options                                       |          | 08/06/2019 12:58 PM | Blocks #4144                      |
| 3607 | OsmoSTP                               | Feature | New    | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |                                   |
| 3644 | OsmoHLR                               | Feature | New    | Normal   | allow arbitrary bytes in Global Title (GT), a.k.a. the VLR,SGSN's identification towards the HLR |          | 10/11/2018 11:54 AM | Related to #3644,Related to #3644 |
| 4166 | OsmoBSC                               | Bug     | New    | Normal   | BORKEN Error / broken lchan / WAIT_ACTIV_ACK: Timeout  |          | 08/22/2019 11:30 AM |                                   |
| 3653 | OsmocomBB                             | Bug     | New    | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX                                 |          | 10/22/2018 02:37 PM |                                   |
| 4221 | OsmoSGSN                              | Bug     | New    | Normal   | create ttcn testcase for T3350 in combination with a PDP context                                 |          | 10/08/2019 04:21 PM | Related to #4221                  |
| 3652 | OsmocomBB                             | Bug     | New    | Normal   | Incorrect IMEISV setting in mobile application   |          | 10/12/2018 08:20 PM |                                   |
| 3662 | gr-gsm                                | Bug     | New    | Normal   | not building on OSX 10.13.4  |          | 10/29/2018 08:52 AM |                                   |
| 3682 | OsmoBSC                               | Feature | New    | Normal   | Intra-domain connection of OsmoBSC to multiple MSCs  |          | 09/04/2019 09:01 AM |                                   |
| 3689 | OsmoSGSN                              | Bug     | New    | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)  |          | 04/09/2019 11:21 AM |                                   |
| 3703 | OsmoBTS                               | Bug     | New    | Normal   | sporadic failures of TC_tch_sign_l2_fill_frame test case   |          | 11/22/2018 02:58 PM |                                   |
| 3711 | SIMtrace 2                            | Feature | New    | Normal   | Add screw holes for permanent installations  |          | 11/27/2018 02:04 AM |                                   |
| 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                  |
| 3738 | OsmoMSC                               | Feature | New    | Normal   | Clarify PS-part of struct vlr_subscr   |          | 12/19/2018 12:34 PM |                                   |
| 3739 | OsmoBSC                               | Feature | New    | Normal   | on osmo-bsc startup, sanity check codec-, pchan-types and AMR rates configuration                |          | 12/20/2018 01:31 AM |                                   |
| 3741 | osmo-sip-connector                    | Bug     | New    | Normal   | Unknow call parameters shown in vty  |          | 12/28/2018 02:01 PM |                                   |
| 3744 | OsmoBSC                               | Bug     | New    | Normal   | include/osmocom/bsc/gsm_data.h: OSMO_ASSERT(conn->lchan); failed in conn_get_bts()               |          | 12/30/2018 10:39 AM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 3763 | osmo-sip-connector              | Bug     | New    | Normal   | Implement correct handling for call answered elsewhere                                     |          | 01/22/2019 01:03 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 |                                   |
| 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 |                                   |
| 3820 | OsmoHNBGW                       | Bug     | New    | Normal   | osmo-hnbgw does not properly do RANAP RESET and RESET ACK on the link towards MSC and SGSN |          | 03/04/2019 07:59 PM | Related to #3944                  |
| 3849 | OsmoMGW                         | Bug     | New    | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite                            |          | 09/04/2019 09:26 AM |                                   |
| 3880 | OsmoMSC                         | Bug     | New    | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response                            |          | 04/01/2019 07:47 AM |                                   |
| 3921 | libosmo-sccp + libosmo-sigtran  | Bug     | New    | Normal   | high local reference numbers get cut off   |          | 04/12/2019 01:23 PM |                                   |
| 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                  |
| 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 |                                   |
| 3949 | OsmoTRX                         | Bug     | New    | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)                           |          | 04/23/2019 08:32 AM |                                   |
| 3964 | OsmoSGSN                        | Bug     | New    | Normal   | SIGSEGV in sndcp_sm_deactivate_ind()   |          | 10/10/2019 07:11 PM | Related to #3964,Related to #4221 |
| 3967 | E1/T1 Hardware Interface        | Feature | New    | Normal   | design a custom board for the ICE40 E1 adapter   |          | 04/30/2019 09:34 AM | Related to #3967                  |
| 3980 | OsmoMGW                         | Bug     | New    | Normal   | Clear Command before CRCX OK may leak MGW endpoint   |          | 05/06/2019 10:11 PM |                                   |
| 3983 | libosmocore                     | Bug     | New    | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent                                   |          | 05/08/2019 08:00 AM |                                   |
| 3992 | OsmoMSC                         | Bug     | New    | Normal   | inter-MSC handover for signalling-only?  |          | 05/09/2019 11:39 AM |                                   |
| 4008 | OsmoBTS                         | Bug     | New    | Normal   | Channel Activation starts SACCH too early in Asynchronous Handover                         |          | 07/18/2019 05:15 AM | Related to #4008,Related to #4010 |
| 4009 | OsmoBTS                         | Bug     | New    | Normal   | Channel Activation starts SACCH too early in Synchronous Handover                          |          | 07/18/2019 05:15 AM | Related to #4009,Related to #4010 |
| 4018 | OsmoPCU                         | Bug     | New    | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |                                   |
| 4017 | OsmoMSC                         | Bug     | New    | Normal   | MSC fails to handle calls  |          | 05/29/2019 04:56 PM |                                   |
| 4034 | OsmoMGW                         | Bug     | New    | Normal   | Bad default value for number of endpoints  |          | 05/31/2019 02:52 PM |                                   |
| 4042 | SIMtrace 2                      | Feature | New    | Normal   | provide command line interface on CDC-ACM device   |          | 06/04/2019 04:07 PM |                                   |
| 4063 | Cellular Network Infrastructure | Feature | New    | Normal   | Add current version information to the VTY reference manuals                               |          | 06/19/2019 09:51 AM |                                   |
| 4082 | OsmoBTS                         | Bug     | New    | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE  |          | 11/18/2019 10:09 AM |                                   |
| 4086 | Cellular Network Infrastructure | Support | New    | Normal   | Testing the 3G Osmocom Network without a Femto Cell  |          | 07/10/2019 09:15 PM |                                   |

| #    | Project                    | Tracker | Status | Priority | Subject   | Assignee               | Updated             | Related issues   |
|------|----------------------------|---------|--------|----------|---|------------------------|---------------------|------------------|
| 4094 | OpenBSC                    | Bug     | New    | Normal   | multiple crashes due to connection failures / drops   |                        | 07/09/2019 07:41 PM | Related to #4094 |
| 4122 | OsmoMSC                    | Support | New    | Normal   | Moving to the smpp-config node and getting SMPP messages working  |                        | 07/22/2019 02:07 PM |                  |
| 4130 | OP25                       | Bug     | New    | Normal   | OP25 User Interface   |                        | 07/26/2019 02:36 AM |                  |
| 4153 | OsmoMGW                    | Bug     | New    | Normal   | 3G voice broken with ALu 9361 femto   |                        | 08/16/2019 10:45 AM |                  |
| 4162 | OsmoHNBGW                  | Bug     | New    | Normal   | when hnb with duplicate CID show up, rejected hnbap requests build up in the hnb list                   |                        | 08/21/2019 12:34 AM | Related to #4162 |
| 4158 | OsmoHNBGW                  | Bug     | New    | Normal   | segfault when paging, in a situation with duplicate CID in hnb register requests                        |                        | 08/21/2019 12:38 AM | Related to #4162 |
| 4172 | OsmoGGSN (former OpenGGSN) | Bug     | New    | Normal   | osmoggsn crashes when stopping  |                        | 08/29/2019 11:35 AM |                  |
| 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 |                  |
| 4196 | OsmoMSC                    | Feature | New    | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                                    |                        | 09/25/2019 05:27 PM |                  |
| 4199 | OsmoBSC                    | Bug     | New    | Normal   | osmo-bsc.cfg: if 'amr tch-[fh] modes' are not in order, the config is ignored and osmo-bsc still starts |                        | 09/12/2019 12:52 AM |                  |
| 4240 | OsmoMSC                    | Bug     | New    | Normal   | test: incoming call when already Paging   |                        | 10/21/2019 05:13 PM |                  |
| 4265 | libosmocore                | Bug     | New    | Normal   | --enable-embedded doesn't work as expected  |                        | 11/12/2019 11:18 AM |                  |
| 4074 | libosmocore                | Bug     | New    | Normal   | LAPD timers completely broken   | Osmocom CNI Developers | 06/21/2019 04:12 PM | Related to #4074 |
| 44   | OsmoSGSN                   | Bug     | New    | Normal   | TLLI clash possible   | sysmocom               | 08/17/2017 06:55 AM |                  |
| 1624 | OsmoPCU                    | Bug     | New    | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs  | sysmocom               | 07/04/2018 12:49 PM |                  |
| 1686 | osmo-sip-connector         | Feature | New    | Normal   | osmo-sip-connector: Implement call holding on SIP   | sysmocom               | 09/04/2019 09:31 AM |                  |
| 1812 | OsmoNITB                   | Feature | New    | Normal   | Report gsm0408_dispatch() failures to MS / UE   | sysmocom               | 03/05/2018 07:34 PM |                  |
| 1946 | OsmoBSC                    | Feature | New    | Normal   | Add checks to the BSC VTY to prevent configurations known to not work                                   | sysmocom               | 08/17/2017 06:51 AM | Related to #1614 |
| 1979 | OsmoBTS                    | Bug     | New    | Normal   | Priority of SAPI=0/SAPI=3 on SABM   | sysmocom               | 05/08/2019 06:12 PM |                  |
| 2305 | OsmoSGSN                   | Bug     | New    | Normal   | review 'laforge/santos' branch and check if there are pending fixes                                     | sysmocom               | 05/29/2017 04:37 PM |                  |
| 2883 | OsmoMSC                    | Bug     | New    | Normal   | GSUP encoding of MSISDN is wrong  | sysmocom               | 08/08/2018 11:03 AM |                  |
| 2928 | OsmoMSC                    | Bug     | New    | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received                                  | sysmocom               | 02/11/2018 05:38 PM |                  |
| 3329 | OsmoBTS                    | Feature | New    | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED   | sysmocom               | 06/08/2018 12:02 PM | Related to #3330 |
| 3330 | OsmoBSC                    | Feature | New    | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED   | sysmocom               | 06/08/2018 12:14 PM | Related to #3330 |
| 3572 | OsmoBTS                    | Bug     | New    | Normal   | Incorrect TDMA frame number calculation on TCH channels   | sysmocom               | 05/08/2019 06:08 PM | Related to #3803 |
| 4124 | OsmoBSCNAT                 | Feature | New    | Normal   | OsmoBSCNAT : Write user manual  | sysmocom               | 07/22/2019 09:02 AM | Related to #4124 |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee        | Updated             | Related issues   |
|------|---------------------------------|---------|--------|----------|--|-----------------|---------------------|------------------|
| 3931 | OsmoGSMTester                   | Support | New    | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)                   | sysmocom        | 04/15/2019 01:40 PM | Related to #3931 |
| 4005 | OsmoMGW                         | Bug     | New    | Normal   | TTCN3 crashes when receiving an RTP MGCP_DUMMY_LOAD from osmo-mgw during CRCX              | sysmocom        | 05/16/2019 02:45 PM | Related to #4005 |
| 4038 | OsmoMSC                         | Feature | New    | Normal   | MSC_Tests_lu: BSC_ConnectionHandler.ttcn missing handling of RAB-AssignmentRequest         | sysmocom        | 06/03/2019 02:54 PM |                  |
| 4083 | Osmocom.org Servers             | Bug     | New    | Normal   | git.osmocom.org: error: garbage at end of loose object                                     | sysmocom        | 10/21/2019 12:15 PM |                  |
| 4141 | Cellular Network Infrastructure | Bug     | New    | Normal   | No osmux specific code in place during codec negotiation                                   | sysmocom        | 08/05/2019 03:57 PM |                  |
| 4203 | Core testing infrastructure     | Bug     | New    | Normal   | Make ttcn3-bts-test(-latest) artifacts smaller   | sysmocom        | 09/13/2019 11:18 AM |                  |
| 2311 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                                   | osmo-gsm-tester | 05/31/2017 04:21 PM |                  |
| 2230 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource   | osmo-gsm-tester | 12/14/2017 04:08 PM | Related to #2230 |
| 2266 | OsmoGSMTester                   | Feature | New    | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation      | osmo-gsm-tester | 10/16/2017 12:36 PM |                  |
| 2313 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                       | osmo-gsm-tester | 05/31/2017 04:27 PM |                  |
| 2314 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                                 | osmo-gsm-tester | 05/31/2017 04:29 PM |                  |
| 2318 | OsmoGSMTester                   | Feature | New    | Normal   | testing sysmobts: skip copying of binaries when the same are already installed             | osmo-gsm-tester | 06/07/2017 03:55 PM |                  |
| 2303 | OsmoGSMTester                   | Feature | New    | Normal   | in the jenkins builds for osmo-gsm-tester, disable and/or exclude static libraries         | osmo-gsm-tester | 05/30/2017 12:17 PM |                  |
| 2374 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                        | osmo-gsm-tester | 08/10/2017 04:37 PM |                  |
| 2399 | OsmoGSMTester                   | Feature | New    | Normal   | add tests for graceful restart of individual components                                    | osmo-gsm-tester | 07/25/2017 12:02 AM |                  |
| 2431 | OsmoGSMTester                   | Bug     | New    | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME                                       | osmo-gsm-tester | 08/10/2017 03:47 PM |                  |
| 2504 | OsmoGSMTester                   | Support | New    | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester             | osmo-gsm-tester | 09/08/2017 12:44 PM |                  |
| 2646 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support  | osmo-gsm-tester | 04/23/2018 10:40 AM |                  |
| 2662 | OsmoGSMTester                   | Bug     | New    | Normal   | osmo-gsm-tester: Test voice:trx-sysmocell5000 sometimes fails since update to use osmo-mgw | osmo-gsm-tester | 01/22/2018 10:42 AM |                  |
| 2615 | OsmoGSMTester                   | Bug     | New    | Normal   | Add API to check GPS lock in BTS   | osmo-gsm-tester | 11/03/2017 05:00 PM |                  |
| 2707 | OsmoGSMTester                   | Feature | New    | Normal   | Add support for verifying content of log files after test is run                           | osmo-gsm-tester | 12/04/2017 05:05 PM |                  |
| 2861 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k   | osmo-gsm-tester | 05/30/2018 02:58 PM | Related to #2860 |
| 3676 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                        | osmo-gsm-tester | 10/29/2018 01:11 PM |                  |
| 4225 | OP25                            | Support | New    | Normal   | Missing rules in cmake lists?  | 2CS350          | 10/12/2019 02:49 PM |                  |
| 1515 | UmTRX                           | Feature | New    | Normal   | Heat dissipation and mounting issue  | Andrey          | 02/19/2016 10:52 PM |                  |
| 1516 | UmTRX                           | Feature | New    | Normal   | There are no port to control external equipment like PA                                    | Andrey          | 02/19/2016 10:52 PM |                  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee  | Updated             | Related issues  |
|------|---------------------------------|---------|--------|----------|--|-----------|---------------------|---|
| 1517 | UmTRX                           | Feature | New    | Normal   | U_FL (UMC) connectors are not reliable after few connections                                       | Andrey    | 02/19/2016 10:52 PM |   |
| 1518 | UmTRX                           | Feature | New    | Normal   | Upper limit of the clock is too low  | Andrey    | 02/19/2016 10:52 PM |   |
| 1921 | Cellular Network Infrastructure | Bug     | New    | Normal   | osmo-gsm-manuals: Purge-MS operation doc error?  | daniel    | 03/16/2018 07:55 PM |   |
| 2523 | OsmoMGW                         | Feature | New    | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place            | daniel    | 03/16/2018 07:54 PM |   |
| 2588 | OsmoHNBGW                       | Bug     | New    | Normal   | OsmoHNBGW has no user manual   | daniel    | 03/16/2018 07:54 PM | Related to #2588  |
| 3731 | OsmoMGW                         | Bug     | New    | Normal   | TTCN3 TC_rtpem_selftest randomly fails   | daniel    | 12/13/2018 12:37 PM |   |
| 2650 | OsmoMGW                         | Bug     | New    | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?  | dexter    | 05/16/2019 02:39 PM | Related to #4005  |
| 3357 | OsmoBSC                         | Bug     | New    | Normal   | osmo-bsc doesn't perform RSL MODE MODIFY on ASSIGNMENT if channel is compatible.                   | dexter    | 10/02/2018 02:54 PM | Related to #3357  |
| 3478 | OsmoBTS                         | Bug     | New    | Normal   | struct member lchan->meas.bts_tx_pwr is never set  | dexter    | 08/20/2018 09:51 AM |   |
| 3782 | OsmoBTS                         | Bug     | New    | Normal   | OML bringup fails for osmo-bts-oc2g on high latency links  | dexter    | 03/26/2019 08:26 AM | Related to #3782,Related to #3782,Related to #3789,Related to #4031 |
| 4117 | OsmoMSC                         | Bug     | New    | Normal   | osmo-msc crash when paging SGs after MME disconnects   | dexter    | 08/01/2019 09:27 AM |   |
| 2379 | OsmocomBB                       | Feature | New    | Normal   | package as .deb  | fixeria   | 07/18/2019 05:43 AM |   |
| 3397 | OsmocomBB                       | Feature | New    | Normal   | target/firmware: get rid of libosmocodec dependency  | fixeria   | 07/16/2018 08:22 PM |   |
| 3398 | GSM Audio Pocket Knife          | Bug     | New    | Normal   | build: configure fails if (optional) libalsa wasn't found  | fixeria   | 07/16/2018 08:45 PM |   |
| 3521 | libosmocore                     | Feature | New    | Normal   | core/utills: engineering notation helpers  | fixeria   | 09/04/2018 08:32 PM |   |
| 3554 | OsmocomBB                       | Bug     | New    | Normal   | trxcon/scheduler: misaligned burst reception   | fixeria   | 06/21/2019 11:56 AM |   |
| 3557 | OsmocomBB                       | Bug     | New    | Normal   | trxcon: decoding errors after applying a new TCH mode  | fixeria   | 06/21/2019 11:56 AM |   |
| 3666 | OsmocomBB                       | Feature | New    | Normal   | Introduce VTY interface  | fixeria   | 06/21/2019 11:56 AM | Related to #3667  |
| 3761 | OsmocomBB                       | Feature | New    | Normal   | Separate TDMA scheduler into a library (libtdmasched)  | fixeria   | 06/21/2019 11:56 AM |   |
| 2712 | libosmocore                     | Feature | New    | Normal   | implement reproducible talloc context printout, i.e. without memory addresses                      | Hoernchen | 07/11/2019 03:54 PM | Related to #2781  |
| 2918 | OsmoBSC                         | Feature | New    | Normal   | Implement a function to properly test connection clearing in MSC_ConnectionHandler.tcn (BSC-Tests) | Hoernchen | 06/19/2019 08:35 AM |   |
| 4072 | libosmo-sccp + libosmo-sigtran  | Bug     | New    | Normal   | Implement IPA PING/PONG mechanism in libosmo-sigtran +   | Hoernchen | 06/21/2019 02:51 PM | Related to #4072  |
| 3699 | Cellular Network Infrastructure | Feature | New    | Normal   | merge Debian patches   | Hoernchen | 07/16/2019 08:00 PM | Related to #3699,Related to #3753                                   |
| 3780 | OsmoBTS                         | Bug     | New    | Normal   | existing test suite doesn't catch wrong measurement processing                                     | Hoernchen | 07/12/2019 04:27 PM |   |
| 4053 | libosmocore                     | Feature | New    | Normal   | CTRL: Add CTRL cmd introspection to print documentation  | Hoernchen | 06/14/2019 08:23 PM | Related to #4053  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee  | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|-----------|---------------------|--|
| 4069 | Cellular Network Infrastructure | Bug     | New    | Normal   | Implement IPA PING/PONG mechanism everywhere   | Hoernchen | 06/21/2019 02:44 PM | Related to #4072                                   |
| 4070 | OsmoBSC                         | Bug     | New    | Normal   | Implement IPA PING/PONG mechanism on RSL and OML                                       | Hoernchen | 06/21/2019 02:47 PM |  |
| 4073 | Cellular Network Infrastructure | Feature | New    | Normal   | try to get counter and vty reference information at compile time                       | Hoernchen | 07/03/2019 12:20 AM | Related to #4073                                   |
| 4112 | OpenBSC                         | Bug     | New    | Normal   | OpenBSC fails to compile on openSUSE Tumbleweed (gcc 9.1 with LTO enabled)             | Hoernchen | 07/18/2019 05:25 AM | Related to #4113,Related to #4123                  |
| 4114 | OsmoGGSN (former OpenGGSN)      | Bug     | New    | Normal   | osmo-ggsn fails to compile on openSUSE Tumbleweed (gcc 9.1 with LTO enabled)           | Hoernchen | 07/18/2019 05:24 AM | Related to #4114,Related to #4123                  |
| 4115 | OsmoMSC                         | Bug     | New    | Normal   | osmo-msc fails to compile on openSUSE Tumbleweed (gcc 9.1 with LTO enabled)            | Hoernchen | 07/18/2019 05:25 AM | Related to #4115,Related to #4123                  |
| 4116 | OsmoSGSN                        | Bug     | New    | Normal   | osmo-sgsn fails to compile on openSUSE Tumbleweed (gcc 9.1 with LTO enabled)           | Hoernchen | 07/18/2019 05:25 AM | Related to #4116,Related to #4123                  |
| 3414 | gr-osmosdr                      | Feature | New    | Normal   | Include Airspy serial number in connection string.                                     | horiz0n   | 07/24/2018 04:52 AM |  |
| 3512 | gr-osmosdr                      | Support | New    | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails                                      | horiz0n   | 01/26/2019 06:10 PM |  |
| 3802 | gr-osmosdr                      | Feature | New    | Normal   | New release  | horiz0n   | 02/15/2019 07:22 AM |  |
| 3462 | gr-osmosdr                      | Bug     | New    | Normal   | gr-osmosdr installation bladerf conversion errors                                      | horiz0n   | 07/18/2019 05:35 AM |  |
| 3592 | gr-osmosdr                      | Bug     | New    | Normal   | rtl: Race Conditions   | horiz0n   | 07/18/2019 05:35 AM |  |
| 3855 | gr-osmosdr                      | Bug     | New    | Normal   | Cannot build gr-osmosdr with Gnuradio 3.8  | horiz0n   | 09/28/2019 06:49 AM |  |
| 3882 | gr-osmosdr                      | Bug     | New    | Normal   | Cannot compile gr-osmosdr!   | horiz0n   | 07/18/2019 05:35 AM |  |
| 4098 | gr-osmosdr                      | Bug     | New    | Normal   | [BladeRF micro] Arguments set in osmocomb Sink and Source are not passed to libbladerf | horiz0n   | 07/18/2019 05:35 AM |  |
| 1506 | UmTRX                           | Feature | New    | Normal   | Move to the latest stable UHD  | ipse      | 02/21/2016 04:47 PM |  |
| 1509 | UmTRX                           | Feature | New    | Normal   | Store calibration values in EEPROM   | ipse      | 02/21/2016 04:47 PM |  |
| 3747 | UmTRX                           | Feature | New    | Normal   | LMS6002D RX Gain Control   | ipse      | 01/08/2019 09:46 AM |  |
| 1761 | libosmocore                     | Bug     | New    | Normal   | LAPD: segfault when bootstrapping Nokia InSite   | laforge   | 05/08/2019 03:07 PM | Related to #1760,Related to #1761,Related to #3975 |
| 1908 | osmo-qcdiag                     | Feature | New    | Normal   | add VTY interface to osmo-qcdiag   | laforge   | 01/12/2017 01:15 PM |  |
| 1906 | osmo-qcdiag                     | Bug     | New    | Normal   | wireshark: fix decoding of (E)GPRS RLC/MAC frames                                      | laforge   | 05/19/2019 07:48 AM |  |
| 1937 | OsmoMGW                         | Feature | New    | Normal   | Implement way how to handle luUP on RTP endpoints                                      | laforge   | 10/17/2018 10:14 AM | Related to #3411,Precedes #2459,Precedes #1937     |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 1947 | OsmoSGSN                        | Bug     | New    | Normal   | GPRS Attach reject for Apple/Android mobile                         | laforge  | 04/13/2019 11:21 AM |                                   |
| 2259 | libosmo-sccp + libosmo-sigtran  | Bug     | New    | Normal   | problem with local reference  | laforge  | 07/19/2017 04:25 PM |                                   |
| 2383 | OsmoPCU                         | Bug     | New    | Normal   | incompatibility with some SGSNs during P-TMSI allocation            | laforge  | 07/04/2018 12:50 PM |                                   |
| 2389 | OsmoBSC                         | Feature | New    | Normal   | re-add siemens MRPCI message, dropped during MSCSPLIT               | laforge  | 05/08/2019 05:45 PM | Related to #2257,Related to #2548 |
| 2724 | OsmoBSC                         | Feature | New    | Normal   | Improve default timers  | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 2807 | Z-Netz                          | Bug     | New    | Normal   | Obtain ZERBERUS software build[s] and manual[s]                     | laforge  | 01/01/2018 01:08 PM |                                   |
| 3020 | OsmoBSC                         | Bug     | New    | Normal   | OsmoBSC PCU socket interface not yet tested by BSC_Tests.ttcn       | laforge  | 05/21/2019 06:29 PM |                                   |
| 3083 | Osmocom.org Servers             | Feature | New    | Normal   | migrate trac to new server?   | laforge  | 06/13/2018 09:55 AM |                                   |
| 2888 | OsmoSTP                         | Bug     | New    | Normal   | OsmoSTP has no TTCN-3 test suite                                    | laforge  | 11/12/2019 11:59 AM |                                   |
| 3071 | Osmocom.org Servers             | Bug     | New    | Normal   | docker-in-lxc setup results in high lxcfs CPU load                  | laforge  | 03/17/2018 12:24 PM |                                   |
| 3192 | Cellular Network Infrastructure | Bug     | New    | Normal   | meas_vis: use the lchan identity as primary key, not the IMSI       | laforge  | 05/08/2019 02:37 PM | Related to #3192,Related to #3192 |
| 3285 | OsmoPCU                         | Feature | New    | Normal   | design + implement tools to analyze inter-PCU cell changes          | laforge  | 08/01/2018 11:04 AM | Related to #3284                  |
| 3371 | SIMtrace 2                      | Feature | New    | Normal   | migrate to use arm-none-eabi build of libosmocore.git               | laforge  | 08/09/2018 12:14 PM |                                   |
| 3388 | libosmocore                     | Bug     | New    | Normal   | NS-RESET / NS-UNBLOCK / NS-BLOCK are not specified over IP/UDP      | laforge  | 02/23/2019 02:37 PM | Related to #3388                  |
| 3879 | OsmoPCU                         | Bug     | New    | Normal   | TC_sns_1c1u_so_bvc_reset has never passed on jenkins                | laforge  | 03/30/2019 11:13 AM |                                   |
| 3471 | Osmocom.org Servers             | Bug     | New    | Normal   | host2.osmocom.org not starting all services on reboot.              | laforge  | 08/18/2018 01:50 PM |                                   |
| 4104 | libosmocore                     | Bug     | New    | Normal   | support for KASME generation  | laforge  | 07/12/2019 10:15 AM | Related to #4105                  |
| 4105 | libosmocore                     | Feature | New    | Normal   | Support for LTE key derivation functions                            | laforge  | 07/13/2019 02:07 AM | Related to #4105                  |
| 4149 | libosmocore                     | Bug     | New    | Normal   | osmo_fsm allows event names to have spaces in them                  | laforge  | 08/24/2019 12:31 PM |                                   |
| 4205 | osmo-remsim                     | Bug     | New    | Normal   | ttcn3-remsim-test only shows results for bankd                      | laforge  | 09/13/2019 12:04 PM |                                   |
| 4249 | osmo-remsim                     | Feature | New    | Normal   | ability to explicitly provision an "empty SIM card slot" to a modem | laforge  | 11/07/2019 02:21 PM |                                   |
| 3884 | osmo-remsim                     | Feature | New    | Normal   | redesign bankd thread architecture                                  | laforge  | 05/08/2019 03:31 PM | Precedes #3885,Precedes #3886     |
| 3885 | osmo-remsim                     | Feature | New    | Normal   | remsim-server should expose status information                      | laforge  | 04/01/2019 07:23 PM | Precedes #3885                    |
| 3886 | osmo-remsim                     | Feature | New    | Normal   | expose ICCID or even IMSI of all cards on remsim-server             | laforge  | 05/08/2019 03:31 PM | Precedes #3886                    |
| 3919 | osmo-remsim                     | Feature | New    | Normal   | remsim-client ifd_handler for PC/SC integration                     | laforge  | 05/08/2019 03:30 PM |                                   |
| 3975 | OsmoBSC                         | Bug     | New    | Normal   | osmo-bsc crash during startup with nokia insite                     | laforge  | 07/18/2019 06:00 AM | Related to #3975                  |
| 4250 | osmo-remsim                     | Bug     | New    | Normal   | osmo-remsim-bankd requires unreleased libosmocore patch             | laforge  | 11/07/2019 02:23 PM |                                   |
| 2614 | SIMtrace                        | Bug     | New    | Normal   | simtrace_hdr randomly appears in APDU payload                       | lukash   | 11/03/2017 08:54 AM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 1543 | OsmoPCU                         | Feature | New    | Normal   | link/rate adaption as per spec   | lynxis   | 04/15/2019 07:50 AM | Related to #1543,Related to #1543                  |
| 1818 | OsmoSGSN                        | Bug     | New    | Normal   | luPS: CN should lu Release in certain situations   | lynxis   | 05/03/2019 12:00 AM | Related to #1818,Related to #3302,Related to #3908 |
| 2189 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: EC20: cannot send SMS   | lynxis   | 11/28/2017 04:21 PM |  |
| 2511 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: check all services for simple use before register race condition                                    | lynxis   | 10/10/2017 09:15 AM | Related to #2456,Related to #2458                  |
| 2577 | OsmoSGSN                        | Bug     | New    | Normal   | Ensure meaningful default loglevels.   | lynxis   | 04/15/2019 07:34 AM |  |
| 2455 | OsmoPCU                         | Bug     | New    | Normal   | MS will not be able to use data service if we let the MS idle about 30 seconds after PDP context activated | lynxis   | 04/15/2019 07:49 AM | Related to #3678                                   |
| 2713 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: chosen pdp type (v4, v6, dual) not strictly followed in ofono qmi                                   | lynxis   | 12/07/2017 01:25 PM | Related to #2713                                   |
| 2603 | OsmoPCU                         | Bug     | New    | Normal   | Review the various incomplete and never merged changes in radisys branch                                   | lynxis   | 09/04/2019 09:15 AM | Related to #1775                                   |
| 2621 | OsmoGSMTester                   | Bug     | New    | Normal   | Gobi2000: might stopped working because all CID got assigned   | lynxis   | 11/15/2017 11:07 AM |  |
| 2941 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: SierraW sometimes crashing while deactivating a context.  | lynxis   | 02/13/2018 04:16 PM |  |
| 2953 | OsmoSGSN                        | Bug     | New    | Normal   | No timeout waiting for UpdateLocation Response on GSUP   | lynxis   | 05/17/2018 01:57 PM | Related to #2952                                   |
| 2791 | Cellular Network Infrastructure | Bug     | New    | Normal   | osmo-python-tests: osmo_ctrl.py: there is no argument to get the list of avaiaable stats                   | lynxis   | 05/08/2019 02:43 PM |  |
| 2957 | OsmoSGSN                        | Bug     | New    | Normal   | No timeout during GSUP PURGE MS to HLR   | lynxis   | 04/15/2019 07:36 AM |  |
| 2962 | OsmoSGSN                        | Bug     | New    | Normal   | Missing TTCN-3 test cases  | lynxis   | 05/30/2018 02:19 PM |  |
| 3046 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: SierraW modem fails to power on   | lynxis   | 03/09/2018 10:58 AM |  |
| 3324 | OsmoGSMTester                   | Bug     | New    | Normal   | production setup: EC20 fails to enumerate  | lynxis   | 06/23/2018 06:55 PM |  |
| 2960 | OsmoSGSN                        | Bug     | New    | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP                              | lynxis   | 04/15/2019 07:37 AM |  |
| 3224 | OsmoSGSN                        | Bug     | New    | Normal   | verify ciphering after UMTS AKA  | lynxis   | 04/15/2019 07:30 AM | Related to #3193,Related to #3224                  |
| 3284 | OsmoPCU                         | Bug     | New    | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode                                | lynxis   | 04/15/2019 07:49 AM | Related to #2400,Related to #3284                  |
| 3696 | OsmoSGSN                        | Bug     | New    | Normal   | Intermittent Connection Drop   | lynxis   | 05/08/2019 12:14 PM |  |
| 3403 | OsmoSGSN                        | Bug     | New    | Normal   | osmo-sgsn doesn not connect properly with via SCCP when restarted  | lynxis   | 04/15/2019 07:29 AM | Related to #3403                                   |
| 3917 | OsmoGSMTester                   | Bug     | New    | Normal   | update debian packages to match our dependencies   | lynxis   | 04/11/2019 04:12 PM |  |
| 3929 | OsmoPCU                         | Bug     | New    | Normal   | Missing PCU_Tests.ttcn link adaptation tests   | lynxis   | 10/04/2019 08:15 PM | Related to #3929                                   |



| #    | Project       | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------|---------|--------|----------|--|----------|---------------------|--|
| 3499 | OsmoPCU       | Bug     | New    | Normal   | pcu is logging "Allocating DL TBF: MS_CLASS=0/0" ; TLV parsing code commented?   | lynxis   | 04/15/2019 07:48 AM | Related to #3499                                   |
| 3564 | OsmoGSMTester | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support  | lynxis   | 09/29/2018 08:57 AM | Related to #3564                                   |
| 3834 | OsmoPCU       | Bug     | New    | Normal   | MS set_mode()/set_current_cs_*( ) inconsistent results   | lynxis   | 04/15/2019 07:48 AM | Related to #3834,Related to #3834,Related to #3834 |
| 3902 | OsmoGSMTester | Support | New    | Normal   | osmo-ci: ansible: gsm-tster: Drop local copy of osmo-gsm-tester shell helpers and install them from osmo-gsm-tester.git master | lynxis   | 04/04/2019 02:59 PM |  |
| 2788 | OsmoMSC       | Feature | New    | Normal   | OsmoMSC should handle CM Service Abort message   | neels    | 01/04/2018 10:37 AM |  |
| 2795 | OsmoMSC       | Feature | New    | Normal   | Handle UTRAN_CLSM_CHG in MSC   | neels    | 04/30/2018 12:06 PM | Related to #3043                                   |
| 3002 | OsmoBSC       | Bug     | New    | Normal   | HO2: handover decision for dynamic timeslots   | neels    | 10/16/2018 01:15 PM | Related to #1606,Related to #1608,Blocks #3002     |
| 3036 | OsmoBTS       | Feature | New    | Normal   | update vty reference -- and make it so that it can be done without manual edits  | neels    | 03/19/2018 12:11 AM |  |
| 3505 | OsmoBSC       | Feature | New    | Normal   | ttn3: test inter-BSC HO with encryption enabled  | neels    | 08/28/2018 06:38 PM | Related to #3505                                   |
| 3069 | OsmoMSC       | Feature | New    | Normal   | investigate multiple CM Service Request on the same conn   | neels    | 05/09/2019 12:30 AM | Is duplicate of #3069                              |
| 3110 | OsmoMSC       | Bug     | New    | Normal   | Test and possibly fix ID Request after Auth failure  | neels    | 09/30/2018 11:36 AM |  |
| 3621 | OsmoMSC       | Feature | New    | Normal   | TTCN-3 test suite for inter-BSC handover   | neels    | 07/18/2019 05:04 AM | Related to #3621                                   |
| 3483 | OsmoBSC       | Feature | New    | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F  | neels    | 10/16/2018 01:53 PM | Related to #3483                                   |
| 3976 | OsmoBSC       | Bug     | New    | Normal   | osmo-bsc: heap-use-after-free upon MGW CRCX failure response   | neels    | 05/06/2019 11:03 AM |  |
| 3586 | OsmoBSC       | Feature | New    | Normal   | support LCLS for inter-BSC handover  | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659                  |
| 4264 | OsmoBSC       | Bug     | New    | Normal   | BSC_Tests.TC_ho_neighbor_config_1 test failures  | neels    | 11/12/2019 10:48 AM |  |
| 3656 | OsmoBSC       | Feature | New    | Normal   | inter-BSC handover outgoing: compose Cell Identifier List from several ARFCN+BSIC  | neels    | 06/10/2019 10:07 PM | Related to #3656                                   |
| 2877 | OsmoMSC       | Bug     | New    | Normal   | OsmoMSC fails on bearer capability without octet 3a  | osmith   | 07/18/2019 05:45 AM |  |
| 2846 | OsmoMSC       | Bug     | New    | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tht cannot be parsed  | osmith   | 07/18/2019 05:44 AM |  |
| 3203 | osmo-fl2k     | Feature | New    | Normal   | have jenkins build verification job  | osmith   | 07/24/2019 09:09 AM |  |
| 2895 | OsmoMSC       | Bug     | New    | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)   | osmith   | 07/18/2019 05:41 AM |  |
| 3190 | OsmoBSC       | Bug     | New    | Normal   | RSL DELETE INDication not implemented  | osmith   | 07/18/2019 05:42 AM |  |
| 3792 | OsmoBTS       | Bug     | New    | Normal   | OsmoBTS doesn't include the "Starting Time" attribute in "Set BTS Attributes ACK"  | osmith   | 07/18/2019 06:05 AM |  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee   | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|--|------------|---------------------|-----------------------------------|
| 3382 | Cellular Network Infrastructure | Bug     | New    | Normal   | Investigate and fix lintian issues listed by Debian Lintian Report   | osmith     | 09/01/2018 08:40 PM |                                   |
| 3386 | Cellular Network Infrastructure | Feature | New    | Normal   | Generate man pages at build time from adoc files   | osmith     | 11/15/2018 09:42 AM | Precedes #3386                    |
| 3541 | Cellular Network Infrastructure | Bug     | New    | Normal   | Conflicting Debian packages: python3-osmopy-utils and osmocom-nitb   | osmith     | 09/30/2018 11:53 AM | Related to #3541                  |
| 4028 | libosmocore                     | Bug     | New    | Normal   | libosmocore build job hangs indefinitely / port 42000 already used   | osmith     | 07/18/2019 05:50 AM |                                   |
| 3636 | OsmoMSC                         | Feature | New    | Normal   | detailed call statistics (with rate counters)  | osmith     | 10/08/2018 11:14 AM | Related to #3636                  |
| 3660 | Cellular Network Infrastructure | Bug     | New    | Normal   | TTCN3 Jenkins jobs leave Docker containers running when stopped  | osmith     | 10/11/2019 01:04 PM |                                   |
| 3865 | OsmoBSC                         | Bug     | New    | Normal   | nanoBTS: GPRS not working anymore, modems unable to attach in osmo-gsm-tester  | osmith     | 07/18/2019 05:03 AM | Is duplicate of #3865             |
| 3867 | libosmocore                     | Bug     | New    | Normal   | Some older Osmocom program releases don't build against current master libosmo*  | osmith     | 03/28/2019 04:30 PM | Related to #3867                  |
| 3872 | OsmoBSC                         | Feature | New    | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT                          | osmith     | 03/28/2019 08:06 PM | Blocks #3872                      |
| 4107 | Cellular Network Infrastructure | Feature | New    | Normal   | Start systemd services as non-root user  | osmith     | 07/15/2019 06:56 AM | Related to #4107                  |
| 4139 | Cellular Network Infrastructure | Bug     | New    | Normal   | "make pdf" target exists, but does nothing   | osmith     | 08/02/2019 08:42 AM |                                   |
| 4163 | OsmoHLR                         | Bug     | New    | Normal   | Subscriber on demand: "Error while deleting subscriber data for IMSI" after changing network access mode from cs+ps back to none | osmith     | 08/22/2019 01:41 PM |                                   |
| 4179 | OsmoBTS                         | Bug     | New    | Normal   | Race condition: OsmoBTS sends empty INFO_ind to PCU socket, if not all SI arrived from BSC via RSL                               | osmith     | 09/04/2019 09:29 AM | Related to #4179,Related to #4179 |
| 4243 | Osmocom.org Servers             | Bug     | New    | Normal   | master-simtrace2 failed to build from October 19 onwards: \$WORKSPACE environment missing  | osmith     | 10/30/2019 08:29 AM |                                   |
| 4273 | OsmoMSC                         | Bug     | New    | Normal   | OsmoMSC documentation clarification  | osmith     | 11/20/2019 12:05 PM |                                   |
| 4101 | rtl-sdr                         | Bug     | New    | Normal   | Memory leak in the rtl_sdr_open routine of librtlsdr   | perceval62 | 07/11/2019 05:39 PM |                                   |
| 2439 | libosmo-netif                   | Bug     | New    | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them   | pespin     | 08/17/2017 07:10 AM | Blocks #2439                      |
| 2440 | libosmo-netif                   | Bug     | New    | Normal   | Osmux: Improve lost packet recreation mechanism  | pespin     | 08/14/2017 05:27 PM | Blocks #2439                      |
| 2463 | OsmoGSMTester                   | Bug     | New    | Normal   | Add doc on dependencies needed for the jenkins slave running osmo-gsm-tester-gerrit job  | pespin     | 04/10/2018 02:08 PM | Related to #2463,Related to #2463 |
| 2860 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support with nano3G board  | pespin     | 09/20/2019 11:41 AM | Related to #2860                  |
| 2906 | OsmoBTS                         | Bug     | New    | Normal   | gsm_pchan2chan_nr asserts GSM_PCHAN_CCCH: lchan_nr == 0  | pespin     | 04/04/2018 08:43 AM |                                   |
| 3320 | OsmoGSMTester                   | Bug     | New    | Normal   | add a README about the python dependencies   | pespin     | 06/06/2018 08:38 AM |                                   |
| 2946 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | Add test suite for sgsnemu   | pespin     | 05/30/2018 02:18 PM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee   | Updated             | Related issues        |
|------|---------------------------------|---------|--------|----------|---|------------|---------------------|-----------------------|
| 3061 | OsmoTRX                         | Bug     | New    | Normal   | OsmoTRX ARM chroot build jobs failing due to proot bug  | pespin     | 03/13/2018 11:50 AM | Related to #3766      |
| 3068 | OsmoGSMTester                   | Bug     | New    | Normal   | resource objects leaked or destroyed too late   | pespin     | 03/15/2018 06:36 PM |                       |
| 3234 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: poll the python-smplib socket using non-busy approach                          | pespin     | 05/04/2018 12:22 PM | Related to #2512      |
| 3622 | libosmo-abis                    | Bug     | New    | Normal   | Clear API mess in sign_link_up callback   | pespin     | 10/02/2018 07:34 PM |                       |
| 4207 | OsmoTRX                         | Bug     | New    | Normal   | multi-arfcn not working properly  | pespin     | 09/16/2019 05:27 PM |                       |
| 3740 | OsmoGSMTester                   | Bug     | New    | Normal   | Figure out best fix for iperf3m4.py where some MS fails to register                             | pespin     | 12/20/2018 05:50 PM |                       |
| 3981 | OsmoTRX                         | Bug     | New    | Normal   | osmo-trx-lms: Overruns appear from time to time   | pespin     | 07/30/2019 04:17 PM | Related to #3981      |
| 4065 | OsmoMSC                         | Feature | New    | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call   | pespin     | 06/19/2019 04:54 PM | Related to #4065      |
| 4091 | Cellular Network Infrastructure | Feature | New    | Normal   | Osmux: Make sure all handover types work fine if a call leg is using Osmux between BSC and MSC. | pespin     | 07/05/2019 02:10 PM |                       |
| 4092 | OsmoMGW                         | Feature | New    | Normal   | Osmux: Support dynamic allocation of osmux sockets  | pespin     | 07/05/2019 05:15 PM | Related to #4092      |
| 4161 | OsmoGGSN (former OpenGGSN)      | Bug     | New    | Normal   | Implement pdp idle timer  | pespin     | 08/20/2019 06:30 PM | Related to #4161      |
| 4193 | OsmoBSC                         | Bug     | New    | Normal   | osmux reference pdf has auto-generated plot not displayed in pdf                                | pespin     | 10/16/2019 01:05 PM |                       |
| 3422 | gr-gsm                          | Bug     | New    | Normal   | Receiver: sample / burst buffering problem  | ptrkrysik  | 07/27/2018 07:56 PM |                       |
| 3424 | gr-gsm                          | Feature | New    | Normal   | Transceiver: implement automatic TX delay measurement   | ptrkrysik  | 07/26/2018 08:22 PM |                       |
| 4068 | gr-gsm                          | Feature | New    | Normal   | Implement a GNU Radio block for frequency hopping   | ptrkrysik  | 06/21/2019 11:40 AM |                       |
| 3227 | Cellular Network Infrastructure | Feature | New    | Normal   | general idea: separate GSUP spec document   | roh        | 07/17/2019 07:50 PM | Is duplicate of #3227 |
| 3315 | rtl-sdr                         | Feature | New    | Normal   | review and possibly apply patches from debian package   | steve-m    | 06/03/2018 01:17 PM |                       |
| 64   | Miscellaneous Projects          | Bug     | New    | Normal   | osmo-bts-amp: 2.2uF capacitors next to PA need to be 0603, not 0805                             | tnt        | 02/21/2016 04:48 PM |                       |
| 3510 | OsmoBTS                         | Bug     | New    | Normal   | Make sure the ECU (Error Concealment Unit) is working correctly                                 | tnt        | 05/15/2019 03:48 PM |                       |
| 1911 | SIMtrace 2                      | Feature | New    | Normal   | check if we can have an enclosed version of simtrace v2   | tsaitgaist | 09/13/2018 12:40 PM |                       |
| 3322 | Osmocom.org Servers             | Feature | New    | Normal   | Header image needed for our OpenCollective site   | tsaitgaist | 06/06/2018 08:30 PM |                       |
| 3847 | Miscellaneous Projects          | Feature | New    | Normal   | Osmocom logo with/for black background  | tsaitgaist | 03/18/2019 08:54 AM | Blocks #3848          |
| 3815 | SIMtrace 2                      | Bug     | New    | Normal   | simtrace2 fails USB-IF CH9 test   | tsaitgaist | 02/23/2019 03:10 PM |                       |
| 4041 | SIMtrace 2                      | Bug     | New    | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO  | tsaitgaist | 08/06/2019 02:12 PM | Related to #4041      |
| 4087 | SIMtrace 2                      | Bug     | New    | Normal   | remove bogus targets from build process and ftp dir   | tsaitgaist | 07/04/2019 08:56 AM |                       |
| 4118 | SIMtrace 2                      | Bug     | New    | Normal   | VCC_PHONE strong pull on SIMtrace board   | tsaitgaist | 07/18/2019 11:54 AM |                       |
| 1504 | UmTRX                           | Feature | New    | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature                    | ttsou      | 02/19/2016 10:52 PM |                       |
| 3067 | OsmoTRX                         | Bug     | New    | Normal   | osmo-trx usrp b100 time out and packet loss between host and device                             | ttsou      | 03/15/2018 06:36 PM |                       |

| #    | Project                  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|--------------------------|---------|--------|----------|---|----------|---------------------|--|
| 3237 | E1/T1 Hardware Interface | Feature | New    | Normal   | Come up with GPS-DO design for E1 Interface   | vogelchr | 06/01/2018 09:50 PM | Related to #3237,Related to #3272,Related to #3967 |
| 3272 | E1/T1 Hardware Interface | Feature | New    | Normal   | next-generation osmo-e1-xcvr board  | vogelchr | 09/10/2018 11:22 AM | Related to #3272                                   |
| 1623 | OsmoSMSC                 | Feature | New    | Normal   | Configure delivery report for the SMPP delivery links   | zecke    | 02/24/2016 01:49 PM |  |
| 1664 | cellmgr-ng               | Bug     | New    | Normal   | m3ua connection should make non-blocking connect  | zecke    | 03/17/2016 10:37 AM |  |
| 1673 | Osmocom.org Servers      | Feature | New    | Normal   | Make the old trac sqlite3 pages available   | zecke    | 03/25/2016 12:34 PM |  |
| 1689 | OsmoSMSC                 | Feature | New    | Normal   | insert: Change destination number based on criteria similiar to route handling on output                | zecke    | 04/06/2016 12:18 PM |  |
| 1690 | OsmoSMSC                 | Bug     | New    | Normal   | Insert: Generate message ID (e.g. UUID)   | zecke    | 04/06/2016 12:26 PM |  |
| 2945 | Osmocom.org Servers      | Feature | New    | Normal   | Use "--config-cache" configure option to speed up builds  | zecke    | 02/14/2018 09:50 PM |  |
| 18   | OsmoNITB                 | Feature | New    | Low      | store last location identity to database  |          | 05/24/2018 01:15 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 |  |
| 25   | OsmoMSC                  | Feature | New    | Low      | Call HOLD / RETRIEVE support for internal MNCC  |          | 08/01/2019 03:06 PM |  |
| 28   | OsmoNITB                 | Bug     | New    | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)   |          | 03/05/2018 07:36 PM |  |
| 33   | OsmoSGSN                 | Feature | New    | Low      | real LLC implementation with fragmentation and re-transmissions   |          | 11/09/2016 09:45 AM |  |
| 39   | OsmoBSC                  | Feature | New    | Low      | Logging filter on bts/trx or such   |          | 03/01/2018 11:16 PM |  |
| 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                                     |
| 61   | OsmoBTS                  | Feature | New    | Low      | osmo-bts: split TRAU/RTP frame handling into separate process   |          | 06/13/2016 01:16 PM |  |
| 68   | OsmoBSC                  | Bug     | New    | Low      | ipaccess-config should work with -u ID -o IP -r BTS_IP  |          | 12/10/2017 07:52 PM |  |
| 73   | OsmoBSC                  | Bug     | New    | Low      | Kill the paging_init_if_needed method in paging.c   |          | 12/10/2017 07:53 PM |  |
| 69   | OsmoBSC                  | Bug     | New    | Low      | No timers for various calls   |          | 12/10/2017 07:53 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 |  |
| 72   | OsmoNITB                 | Bug     | New    | Low      | struct gsm_call can leak..  |          | 05/09/2016 07:37 PM |  |
| 1530 | OsmoPCU                  | Feature | New    | Low      | Assign same TFI number in downlink/uplink   |          | 03/01/2018 11:16 PM |  |
| 1555 | OsmoPCU                  | Feature | New    | Low      | Unacknowledged RLC Mode   |          | 02/23/2016 03:12 PM |  |
| 1537 | OsmoPCU                  | Feature | New    | Low      | Move the BSSGP handling to libosmocore  |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388                  |
| 1559 | OsmoPCU                  | Feature | New    | Low      | EGPRS/GPRS multiplexing on single PDCH  |          | 02/23/2016 03:16 PM |  |
| 1571 | OsmoBTS                  | Feature | New    | Low      | Support RTP multiplexing instead of per-call RTP streams  |          | 02/23/2016 03:32 PM |  |
| 1572 | OsmoBTS                  | Feature | New    | Low      | Circuit Switched Data Support   |          | 02/23/2016 03:34 PM |  |

| #    | Project | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------|---------|--------|----------|---|----------|---------------------|---|
| 1561 | OsmoBTS | Feature | New    | Low      | Multi-TRX support (one osmo-bts process per TRX)                |          | 02/23/2016 03:18 PM |   |
| 1569 | OsmoBTS | Feature | New    | Low      | Report RF interference levels as part of RF RESOURCE INDICATION |          | 09/04/2019 09:26 AM | Related to #1569,Related to #2735,Related to #3750,Related to #4006 |
| 1570 | OsmoBTS | Feature | New    | Low      | Select RTP payload identifier based on requested speech mode    |          | 02/23/2016 03:31 PM |   |
| 1573 | OsmoBTS | Feature | New    | Low      | ENHANCED MEASUREMENT REPORT                                     |          | 02/23/2016 03:36 PM |   |

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