

## Issues

| #    | Project             | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------|---------|-------------|----------|---|----------|---------------------|--|
| 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 gsmmap/EGPRS patch to the wireshark project  |          | 07/18/2019 03:59 PM |  |
| 1982 | libosmocore         | Bug     | New         | High     | LAPD: segfault in lapd_est_req function   |          | 07/18/2019 05:49 AM | Related to #1982   |
| 2162 | OP25                | Bug     | New         | High     | Fix bit-ordering in output for VC55.  |          | 04/22/2017 04:15 PM |  |
| 2168 | OP25                | Bug     | New         | High     | Implement Forward error correction for LDU1/2   |          | 04/22/2017 04:15 PM |  |
| 2169 | OP25                | Bug     | New         | High     | First-cut of trunking support   |          | 04/22/2017 04:15 PM |  |
| 2170 | OP25                | Bug     | New         | High     | Implement forward error-correction code, remove IT++ dependency   |          | 04/22/2017 04:14 PM |  |
| 2172 | OP25                | Bug     | New         | High     | HDU often missing in captures   |          | 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 |  |
| 4222 | OsmoSGSN            | Bug     | New         | High     | Implement PS Paging for the Routing Areas   |          | 10/08/2019 04:30 PM |  |
| 1766 | OsmoPCU             | Bug     | In Progress | High     | KPIs for OsmoPCU: EGPRS   |          | 10/29/2017 06:47 PM | Related to #1766,Related to #1766  |
| 1548 | OsmoPCU             | Bug     | Stalled     | High     | 11bit RACH support  |          | 10/04/2019 11:15 PM | Related to #1548,Related to #3054,Related to #3014,Is duplicate of #1548 |
| 3734 | gr-osmosdr          | Bug     | New         | High     | Cannot compile gr-osmocom   |          | 12/16/2018 12:22 AM |  |
| 3458 | gr-gsm              | Bug     | Feedback    | High     | apps/grgsm_trx: [ERROR] [STREAMER] rcv packet demuxer unexpected sid 0xXX   |          | 09/21/2018 10:12 AM | Related to #3692   |
| 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 |  |

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| 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 |   |
| 1482 | Mobile (in)Security                        | Bug     | New    | Normal   | Sending the TMSI of the old/previous network                                  |          | 02/21/2016 04:35 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 |   |
| 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 |
| 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 |   |
| 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 |   |
| 1829 | OsmoNITB                                   | Bug     | New    | Normal   | Fix warnings introduced by ctrl constify                                      |          | 03/05/2018 07:34 PM |   |
| 1907 | osmo-qcdiag                                | Bug     | New    | Normal   | osmo-qcdiag detects CRC errors relatively often                               |          | 01/23/2017 01:47 AM |   |
| 1896 | OsmoGGSN (former OpenGGSN)                 | Bug     | New    | Normal   | ggsn unable to set tun interface on FreeBSD v11                               |          | 12/23/2016 03:36 AM |   |
| 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 |   |
| 1952 | Linux Kernel GTP-U                         | Bug     | New    | Normal   | IPv6 support for inner (user) IP layer missing                                |          | 02/18/2017 12:29 PM |   |
| 1953 | Linux Kernel GTP-U                         | Bug     | New    | Normal   | IPv6 support for outer (transport) IP layer missing                           |          | 02/19/2017 04:45 PM |   |
| 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 |   |
| 2179 | Osmocom Conferences (OsmoDevCon + OsmoCon) | Bug     | New    | Normal   | no sign about OsmoCon outside of venue  |          | 04/24/2017 07:10 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 |   |
| 2382 | OsmoBSC                                    | Bug     | New    | Normal   | T3105 not consistently communicated to all BTS models                         |          | 03/05/2018 07:02 PM |   |

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| 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                  |
| 2607 | rtl-sdr                                    | Bug     | New    | Normal   | rtl-sdr gnuradio cfile is outdated   |          | 06/03/2018 12:23 PM |  |
| 2438 | OsmoNITB                                   | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV              |          | 08/14/2017 09:36 AM |  |
| 2681 | Osmocom.org Servers                        | Bug     | New    | Normal   | bogus user accounts + spam   |          | 11/23/2017 06:59 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 |  |
| 2688 | libosmocore                                | Bug     | New    | Normal   | CTRL iface: make rate_ctr request parser more strict                           |          | 11/29/2017 01:40 PM |  |
| 2690 | OsmocomBB                                  | Bug     | New    | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access                              |          | 11/29/2017 09:33 AM |  |
| 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 |
| 2694 | OsmocomBB                                  | Bug     | New    | Normal   | SIGSEGV in lapdm code  |          | 11/30/2017 08:45 AM |  |
| 2995 | OsmocomBB                                  | Bug     | New    | Normal   | Wrong parsing of PAGING TYPE 3   |          | 02/24/2018 11:03 PM | Related to #2994                                   |
| 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 |  |
| 2797 | linmodem                                   | Bug     | New    | Normal   | X11 support is 16bit plane only  |          | 01/01/2018 02:48 PM |  |
| 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 |  |
| 3425 | gr-gsm                                     | Bug     | New    | Normal   | Receiver: missing AGC (Automatic Gain Control)                                 |          | 07/26/2018 08:25 PM |  |
| 3588 | rtl-sdr                                    | Bug     | New    | Normal   | Error Values Inconsistent  |          | 09/25/2018 12:47 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                  |
| 3629 | OsmocomBB                                  | Bug     | New    | Normal   | mobile aborting after 'test re-selection 1' on vty                             |          | 10/04/2018 02:58 PM |  |
| 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 |  |

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| 3141 | OsmoTRX                         | Bug     | New         | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation   |          | 04/05/2018 05:46 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 |                                   |
| 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 |                                   |
| 3909 | libosmocore                     | Bug     | New         | Normal   | osmo_get_rand_id() fails in containerised environment   |          | 04/07/2019 04:05 PM | Related to #3909                  |
| 3923 | OsmoSGSN                        | Bug     | New         | Normal   | lu: Respond to SecurityCommandReject messages   |          | 04/24/2019 08:26 AM | Related to #3923                  |
| 3278 | OsmoNITB                        | Bug     | New         | Normal   | Disconnected ESME socket leaves esme entry in smsc->esme_list   |          | 05/18/2018 12:04 AM |                                   |
| 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 |                                   |
| 3308 | Osmocom.org Servers             | Bug     | New         | Normal   | jenkins: master-asn1c build: "error: 'param' undeclared"  |          | 08/20/2018 04:09 PM |                                   |
| 4019 | OsmoPCU                         | Bug     | New         | Normal   | implemnet a command to show all informations from the bts   |          | 05/23/2019 03:08 PM |                                   |
| 3354 | Osmocom.org Servers             | Bug     | New         | Normal   | Gerrit: wrong redirect URL after signing in   |          | 06/18/2018 09:20 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 |
| 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 |                                   |
| 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 |                                   |
| 4166 | OsmoBSC                         | Bug     | New         | Normal   | BORKEN Error / broken lchan / WAIT_ACTIV_ACK: Timeout   |          | 08/22/2019 11:30 AM |                                   |
| 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                  |
| 3531 | OP25                            | Bug     | New         | Normal   | Unknown status of the p25 wireshark plugin  |          | 09/07/2018 02:46 PM |                                   |
| 2811 | Retro-Networking / BBS-Revival  | Bug     | In Progress | Normal   | collect ISDN cards / adapters   |          | 10/10/2019 07:29 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 |                                   |
| 3736 | Osmocom.org Servers             | Bug     | In Progress | Normal   | sporadic segmentation faults on jenkins build slave   |          | 12/16/2018 04:08 PM |                                   |

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| 3743 | OsmoMSC                        | Bug     | In Progress | Normal   | subscriber re-assoc crashes osmo-msc   |          | 12/29/2018 01:14 AM | Is duplicate of #3742  |
| 3653 | OsmocomBB                      | Bug     | New         | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX                           |          | 10/22/2018 02:37 PM |  |
| 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 |  |
| 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 |  |
| 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   |
| 1794 | OsmoSGSN                       | Bug     | Stalled     | Normal   | support random IV for GEA (via XID)  |          | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 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 |  |
| 2851 | OsmoMSC                        | Bug     | Stalled     | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2   |          | 07/18/2019 05:45 AM |  |
| 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 |  |
| 4023 | OsmoBTS                        | Bug     | Stalled     | Normal   | Missing coverage of PCU interface in osmo-bts  |          | 09/04/2019 09:05 AM | Related to #4023   |
| 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  |

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| 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 |                                   |
| 4082 | OsmoBTS                    | Bug     | New         | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE   |          | 07/01/2019 07:14 AM |                                   |
| 4094 | OpenBSC                    | Bug     | New         | Normal   | multiple crashes due to connection failures / drops   |          | 07/09/2019 07:41 PM | Related to #4094                  |
| 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 |                                   |
| 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 |                                   |
| 1954 | OsmocomBB                  | Bug     | In Progress | Normal   | Motorola C188 with Osmocombb firmwre(RAM version) can't scan out any base stations                      |          | 07/10/2017 10:24 PM |                                   |
| 3511 | OsmoMGW                    | Bug     | In Progress | Normal   | osmo-mgw does not forward RTP packets anymore   |          | 08/29/2018 04:33 PM |                                   |
| 3690 | OsmoBSC                    | Bug     | In Progress | Normal   | BSC_Tests.TC_dyn_pdch_osmo_act_deact failure: Unexpected TS Mode: "NONE mode"                           |          | 11/13/2018 02:31 PM |                                   |
| 3742 | OsmoMSC                    | Bug     | In Progress | Normal   | libmsc/gsm_04_08.c: OSMO_ASSERT(!conn->vsub) failed in msc_vlr_subscr_assoc()                           |          | 03/30/2019 05:50 PM | Is duplicate of #3742             |
| 3806 | OsmoBSC                    | Bug     | In Progress | Normal   | OsmoBSC accepts BSSAP with wrong length field   |          | 09/04/2019 09:26 AM | Related to #3806                  |
| 3937 | OsmoSGSN                   | Bug     | In Progress | Normal   | lu: verify handling of GMM Service Request (data)when no PDP Context present.                           |          | 05/21/2019 10:28 AM | Related to #3937                  |
| 4169 | OsmoMSC                    | Bug     | In Progress | Normal   | transition to state MSC_A_ST_RELEASING not permitted!   |          | 09/03/2019 12:23 AM |                                   |

| #    | Project                         | Tracker | Status   | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|----------|----------|---|----------|---------------------|-----------------------------------|
| 2691 | OsmoNITB                        | Bug     | Feedback | Normal   | Old TMSI paged after LU   |          | 05/17/2018 11:47 AM |                                   |
| 1575 | OsmoBTS                         | Bug     | Stalled  | Normal   | Correctly handle BS_AG_BLKES_RES (AGCH/PCH split in DL CCCH)  |          | 09/04/2019 09:15 AM | Related to #1575,Related to #1575 |
| 1838 | OsmoPCU                         | Bug     | Stalled  | Normal   | Nokia E52 doest reply to PUAN message properly  |          | 10/29/2017 06:47 PM |                                   |
| 2728 | Cellular Network Infrastructure | Bug     | Stalled  | Normal   | Align better with 48.103 for AoIP user plane (AMR marker bit for frame following ONSET)                 |          | 09/04/2019 09:34 AM | Related to #3798                  |
| 3812 | libosmo-netif                   | Bug     | Stalled  | Normal   | stream_test fails depending on where it is run  |          | 03/13/2019 04:15 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 |                                   |
| 28   | OsmoNITB                        | Bug     | New      | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)   |          | 03/05/2018 07:36 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                    |
| 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 |                                   |
| 1618 | OsmoBTS                         | Bug     | New      | Low      | AMR adaption loop doesn't use C/I thresholds, only BER  |          | 07/18/2019 06:08 AM | Related to #4006                  |
| 1674 | OsmoBTS                         | Bug     | New      | Low      | Kill duplication between l1_if.c and sysmobts_ctrl.c  |          | 07/18/2019 06:08 AM |                                   |
| 1751 | OsmoBTS                         | Bug     | New      | Low      | incompatibility between LCR and DTX   |          | 06/14/2016 04:39 PM |                                   |
| 1744 | OsmoBTS                         | Bug     | New      | Low      | 1-way voice between sysmobts and nanobts if DTX is enabled  |          | 07/18/2019 06:08 AM | Related to #1562                  |
| 1897 | OsmocomTETRA                    | Bug     | New      | Low      | Inefficient sequence search in tetra_find_train_seq   |          | 04/10/2017 01:04 AM |                                   |
| 1919 | pySim                           | Bug     | New      | Low      | issue with grcardsim from Greencard (grcard.cn)   |          | 08/17/2017 06:45 AM |                                   |
| 2355 | OsmoBTS                         | Bug     | New      | Low      | optimize log output of phy specific code  |          | 09/04/2019 09:26 AM | Related to #2355                  |
| 2364 | OsmoBTS                         | Bug     | New      | Low      | OsmoBTS sends SI1 even if it is not specified/needed  |          | 07/15/2017 10:06 AM |                                   |
| 2373 | OsmoMSC                         | Bug     | New      | Low      | SMS sent to old Nokia 1100: "message 0x332/1" causes CP-ERROR, and SMS is received 5 or more times      |          | 08/03/2018 05:22 PM |                                   |
| 2717 | libosmo-abis                    | Bug     | New      | Low      | libosmo-abis doesn't use ipa_ccm_make_id_resp()   |          | 12/06/2017 05:47 PM |                                   |
| 2595 | OsmoNITB                        | Bug     | New      | Low      | db: find the best way to allocate unused random extension and avoid infinite loop                       |          | 03/05/2018 07:35 PM |                                   |
| 2805 | FidoNet                         | Bug     | New      | Low      | Create reproducible / semi-automatic way to create FidoNet node on Linux                                |          | 07/18/2019 05:34 AM |                                   |
| 3056 | OsmoBTS                         | Bug     | New      | Low      | OsmoBTS doesn't implement SACCH Repetition Order (SRO)  |          | 07/18/2019 06:08 AM |                                   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|---|
| 2803 | linmodem                        | Bug     | New         | Low      | return ERROR for unsupported AT commands   |          | 01/01/2018 12:19 PM |   |
| 3126 | SDR (Software Defined Radio)    | Bug     | New         | Low      | Windows 10 Pro 1709: crash of rtl_test.exe   |          | 03/30/2018 02:16 PM |   |
| 2839 | Cellular Network Infrastructure | Bug     | New         | Low      | statistics split between 2G and 3G   |          | 07/18/2019 05:22 AM |   |
| 2858 | OsmoHNBGW                       | Bug     | New         | Low      | No automatic testing of luh interface  |          | 05/30/2018 03:00 PM | Precedes #2858  |
| 2938 | OsmoNITB                        | Bug     | New         | Low      | osmo-nitb version 1.0.0 in 'latest' constantly logs LIBDBI error                                 |          | 02/13/2018 11:00 AM |   |
| 2942 | OsmoBTS                         | Bug     | New         | Low      | osmo-bts-virtual+virtphy+mobile paging for SMS delivery fails                                    |          | 02/13/2018 05:05 PM |   |
| 2974 | OsmoBTS                         | Bug     | New         | Low      | OsmoBTS doesn't use the "Diagnostics" part of the RSL Cause IE                                   |          | 07/18/2019 05:48 AM |   |
| 3006 | libosmo-netif                   | Bug     | New         | Low      | Osmux: improvements on lost/dropped RTP packets  |          | 09/30/2018 08:34 AM |   |
| 3058 | OsmoBTS                         | Bug     | New         | Low      | RSL SACCH FILLING are per TRX, not BTS scope   |          | 03/11/2018 08:55 PM |   |
| 3737 | OsmoBSC                         | Bug     | New         | Low      | abort because unused lchan has non-null conn pointer, after AMR config error                     |          | 05/08/2019 03:35 PM |   |
| 3796 | OsmoBTS                         | Bug     | New         | Low      | OsmoBTS doesn't send proper cause values in NACK   |          | 07/18/2019 06:04 AM | Related to #3796  |
| 3642 | OsmoBSC                         | Bug     | New         | Low      | logging filter imsi leaks bsc_subscr references  |          | 10/09/2018 10:04 PM |   |
| 1898 | OsmoBTS                         | Bug     | Feedback    | Low      | Wrong handover detection with l1sap on wrong ss=0/ts=0   |          | 11/07/2017 09:54 PM |   |
| 3694 | Cellular Network Infrastructure | Bug     | New         | Low      | Fix lintian warnings in .deb packages  |          | 07/18/2019 05:20 AM | Related to #3699  |
| 1750 | OsmoBTS                         | Bug     | Stalled     | Low      | DTXu/DTXd support for osmo-bts-trx   |          | 03/01/2018 11:17 PM | Related to #1562, Related to #1563, Is duplicate of #1750, Blocks #1750 |
| 3822 | OsmoMGW                         | Bug     | New         | Low      | conn mode "sendonly" behaves identically to "sendrecv"   |          | 03/04/2019 09:34 PM |   |
| 4108 | Cellular Network Infrastructure | Bug     | New         | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs  |          | 07/16/2019 12:30 PM | Related to #4108  |
| 3693 | libosmocore                     | Bug     | In Progress | Low      | gsm_04_08.h: numerous packed structs with sub-byte ints lack the order-swap shims for big endian |          | 11/19/2018 02:05 PM |   |
| 1671 | OsmoNITB                        | Bug     | Stalled     | Low      | Combined 850/1800 NITB not seen by Option Icon2 stick  |          | 03/05/2018 07:35 PM |   |
| 1725 | OsmoNITB                        | Bug     | Stalled     | Low      | iPhone6 network selection issue with GSM1900   |          | 03/05/2018 07:35 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 |   |



| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 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 |  |
| 2171 | OP25                                  | Feature | New    | High     | Use libfft3 for IFFT/FFT functions.                                |          | 04/22/2017 04:14 PM |  |
| 2173 | OP25                                  | Feature | New    | High     | Remove dependency on ET++  |          | 04/22/2017 04:14 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 |  |
| 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 |
| 1667 | OsmoNITB                              | Feature | New    | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294                                   |
| 1716 | libosmocore                           | Feature | New    | Normal   | enhance unit test coverage   |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717                    |
| 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                              |
| 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                  |
| 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 |  |
| 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 |  |
| 1866 | OsmoBSC                               | Feature | New    | Normal   | Make use of RSL RF RESOURCE INDICATION (interference measurements) |          | 12/10/2017 08:15 PM | Related to #1569                                   |
| 1984 | Osmocom.org Servers                   | Feature | New    | Normal   | make list archives more readable/accessible                        |          | 03/15/2017 11:20 AM |  |

| #    | Project                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                   |
|------|------------------------------|---------|--------|----------|---|----------|---------------------|--|
| 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 |  |
| 2224 | SDR (Software Defined Radio) | Feature | New    | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |  |
| 2191 | OsmoMSC                      | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |  |
| 2378 | OsmocomBB                    | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git            |          | 10/24/2018 02:13 PM |  |
| 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 |
| 2682 | libosmocore                  | Feature | New    | Normal   | replace legacy counters with rate_ctr   |          | 09/04/2019 09:21 AM |  |
| 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                  |
| 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                                 |
| 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 |  |
| 3038 | multi-voltage USB UART       | Feature | New    | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |  |
| 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 |  |
| 3097 | OsmoBSC                      | Feature | New    | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097                                 |
| 2801 | linmodem                     | Feature | New    | Normal   | V.90 completion   |          | 01/01/2018 12:18 PM |  |
| 2815 | linmodem                     | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |  |
| 3344 | OsmoTRX                      | Feature | New    | Normal   | merge ttsou/siggen  |          | 06/13/2018 07:26 PM |  |
| 3479 | OsmoBSC                      | Feature | New    | Normal   | test "every single failure" in osmo-bsc FSMs                                  |          | 08/20/2018 11:15 AM | Related to #3479                                 |
| 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           |
| 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                |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                     |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|------------------------------------|
| 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 |
| 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 |                                    |
| 3606 | OsmoSTP                         | Feature | New         | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |                                    |
| 3658 | Cellular Modem Information      | Feature | New         | Normal   | Create a "osmocom-bb-host-latest" docker container   |          | 10/16/2018 02:11 PM | Related to #3658                   |
| 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              |
| 3309 | libosmocore                     | Feature | New         | Normal   | osmo_timer_* should use monotonic clock  |          | 05/31/2018 03:59 PM | Related to #3309                   |
| 3968 | E1/T1 Hardware Interface        | Feature | New         | Normal   | find enclosure for ICE40 E1 board  |          | 04/30/2019 09:41 AM |                                    |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New         | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management                            |          | 05/30/2019 03:19 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 |                                    |
| 4143 | libosmo-ranap                   | Feature | New         | Normal   | Security Mode Command needs distinct UEA1 and UEA2 options                                       |          | 08/06/2019 12:58 PM | Blocks #4144                       |
| 3490 | OsmoMGW                         | Feature | New         | Normal   | Add config option to allow arbitrary domain names in endpoints                                   |          | 08/20/2018 10:08 PM | Related to #3490                   |
| 2810 | Retro-Networking / BBS-Revival  | Feature | In Progress | Normal   | collect analog modems  |          | 10/10/2019 07:29 PM |                                    |
| 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 |
| 3672 | Osmocom Analog                  | Feature | New         | Normal   | Custom announcement and tones  |          | 10/25/2018 05:10 PM |                                    |
| 3682 | OsmoBSC                         | Feature | New         | Normal   | Intra-domain connection of OsmoBSC to multiple MSCs  |          | 09/04/2019 09:01 AM |                                    |
| 3687 | OsmoMSC                         | Feature | New         | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |                                    |
| 3711 | SIMtrace 2                      | Feature | New         | Normal   | Add screw holes for permanent installations  |          | 11/27/2018 02:04 AM |                                    |
| 1587 | OsmoSGSN                        | Feature | Stalled     | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587                   |
| 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 |                                    |
| 1910 | libosmocore                     | Feature | Stalled     | Normal   | add v4 encryption support  |          | 01/22/2018 10:35 AM | Related to #1910                   |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 4144 | OsmoMSC                         | Feature | Stalled     | Normal   | provide config to enable/disable UTRAN encryption                                  |          | 08/13/2019 02:57 PM | Blocks #4144   |
| 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   |
| 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 |  |
| 4196 | OsmoMSC                         | Feature | New         | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE               |          | 09/25/2019 05:27 PM |  |
| 1601 | OsmoBSC                         | Feature | In Progress | Normal   | VTY parameters become active when?   |          | 12/10/2017 08:04 PM | Related to #1601   |
| 2812 | Retro-Networking / BBS-Revival  | Feature | In Progress | Normal   | Build mixed ISDN / analog telephone network  |          | 10/04/2019 07:40 AM |  |
| 2487 | OsmoMSC                         | Feature | Stalled     | Normal   | MSC side of LCLS (local call local switching) as per the 3GPP specs                |          | 09/04/2019 09:05 AM | Related to #1602, Related to #3659, Related to #3691, Related to #3618, Related to #3294 |
| 2555 | OsmocomBB                       | Feature | Stalled     | Normal   | script interface to OsmocomBB "mobile"   |          | 09/04/2019 02:54 PM | Related to #2555, Related to #2555, Blocks #2893   |
| 2558 | Cellular Network Infrastructure | Feature | Stalled     | Normal   | Scripts to manage thousands of "mobile" and hundreds of osmo-bts-virtual instances |          | 09/04/2019 09:22 AM | Related to #2557, Related to #2556, Related to #2555, Related to #2558, Blocks #2893     |
| 3445 | OsmoMSC                         | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API  |          | 12/14/2018 01:57 PM |  |
| 18   | OsmoNITB                        | Feature | New         | Low      | store last location identity to database   |          | 05/24/2018 01:15 PM |  |
| 25   | OsmoMSC                         | Feature | New         | Low      | Call HOLD / RETRIEVE support for internal MNCC                                     |          | 08/01/2019 03:06 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 |  |
| 61   | OsmoBTS                         | Feature | New         | Low      | osmo-bts: split TRAU/RTP frame handling into separate process                      |          | 06/13/2016 01:16 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 |  |

| #    | Project                               | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|---|
| 1572 | OsmoBTS                               | Feature | New    | Low      | Circuit Switched Data Support   |          | 02/23/2016 03:34 PM |   |
| 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 |   |
| 1579 | OsmoBTS                               | Feature | New    | Low      | Use epoll   |          | 02/23/2016 03:41 PM |   |
| 1585 | OsmoSGSN                              | Feature | New    | Low      | Gn interface for inter-SGSN MM Context transfer   |          | 06/23/2018 07:40 PM | Is duplicate of #1585   |
| 1590 | Cellular Network Infrastructure       | Feature | New    | Low      | Extension of Control Interface / external SNMP agent                                      |          | 07/18/2019 05:22 AM |   |
| 1596 | Cellular Network Infrastructure       | Feature | New    | Low      | Generation of accounting/billing data   |          | 12/10/2017 08:03 PM |   |
| 1600 | OsmoBSC                               | Feature | New    | Low      | BSC: Make SI / rest octests more configurable   |          | 12/10/2017 08:04 PM |   |
| 1598 | Cellular Network Infrastructure       | Feature | New    | Low      | Scripting language interface  |          | 12/10/2017 08:04 PM |   |
| 1603 | OsmoMSC                               | Feature | New    | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP                         |          | 07/18/2019 06:13 AM |   |
| 1613 | OsmoBSC                               | Feature | New    | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                    |          | 12/10/2017 08:06 PM |   |
| 1625 | OsmoPCU                               | Feature | New    | Low      | add loopback ping command to osmopcu  |          | 10/29/2017 06:43 PM |   |
| 1643 | OsmoHLR                               | Feature | New    | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643                                       |
| 1659 | OsmoBSC                               | Feature | New    | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time |          | 12/10/2017 08:06 PM |   |
| 1688 | libosmo-sccp + libosmo-sigtran        | Feature | New    | Low      | SUA: support N-STATE indication primitives for connect and disconnect events              |          | 04/08/2018 07:59 AM |   |
| 1692 | OsmoBTS                               | Feature | New    | Low      | clock source monitoring   |          | 04/13/2016 09:49 AM |   |
| 1724 | SIMtrace                              | Feature | New    | Low      | extend wireshark dissector for SIM/USIM traces  |          | 08/17/2016 03:57 PM |   |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Low      | check if qtools work  |          | 10/02/2016 04:08 AM |   |
| 1771 | OsmoBTS                               | Feature | New    | Low      | osmo-bts-trx: clarify check_transceiver_availability()                                    |          | 03/01/2018 11:17 PM | Related to #1770  |
| 1837 | OsmoBTS                               | Feature | New    | Low      | autogenerate dtx_dl_amr_fsm.*   |          | 03/01/2018 11:17 PM |   |
| 1872 | libosmocore                           | Feature | New    | Low      | high-performance remote logging   |          | 10/05/2017 06:27 AM |   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|---|
| 1903 | OsmoPCU                         | Feature | New    | Low      | convert c++ -> c   |          | 07/10/2017 10:35 PM |   |
| 2000 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | use m3ua-testtool for the ASP-side verification  |          | 07/18/2019 05:42 AM |   |
| 2002 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement xUA traffic modes for load-balance and broadcast   |          | 04/10/2017 12:00 PM |   |
| 1926 | OsmoBTS                         | Feature | New    | Low      | unify *_mgr code   |          | 07/18/2019 06:08 AM |   |
| 2003 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement M2UA support   |          | 04/10/2017 12:01 PM |   |
| 2006 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement M2PA support   |          | 04/10/2017 12:04 PM |   |
| 2007 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement GT based routing   |          | 04/10/2017 12:04 PM |   |
| 2008 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement Global Title Translation   |          | 04/10/2017 12:05 PM |   |
| 2009 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")   |          | 04/10/2017 12:09 PM |   |
| 2011 | Cellular Network Infrastructure | Feature | New    | Low      | clean-up / merge IPA (and IPA CCM) code of libosmocore, libosmo-abis, libosmo-netif, openbsc, etc. |          | 04/15/2017 12:54 PM |   |
| 2186 | libosmocore                     | Feature | New    | Low      | split libosmocrypto  |          | 10/05/2017 06:25 AM |   |
| 2366 | OsmoBTS                         | Feature | New    | Low      | OsmoBTS lacks EXTENDED BCCH support  |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014   |
| 2405 | OsmoPCU                         | Feature | New    | Low      | RLC/MAC encoding routines don't use bitvec L/H   |          | 07/29/2017 09:01 AM |   |
| 2430 | OsmoTRX                         | Feature | New    | Low      | osmo-trx support bladerf   |          | 02/23/2018 05:14 PM |   |
| 2469 | OsmoBTS                         | Feature | New    | Low      | Proper OML MO (managed object) using osmo_fsm  |          | 07/18/2019 06:08 AM | Related to #3782,Related to #3789,Related to #3788,Related to #3785,Related to #3790,Related to #3791,Related to #3795,Related to #3796 |
| 2391 | OsmoMSC                         | Feature | New    | Low      | add osmocore specific TLVs to A-interface for BTS/TS and subscriber details                        |          | 10/02/2018 03:40 PM |   |
| 2546 | OsmoMGW                         | Feature | New    | Low      | support play-out/announcement endpoint type  |          | 10/06/2017 12:30 PM |   |
| 2411 | OsmoMGW                         | Feature | New    | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded                  |          | 03/05/2018 07:04 PM |   |
| 2636 | Osmocom.org Servers             | Feature | New    | Low      | publish HTML versions of osmo-gsm-manuals  |          | 09/04/2019 09:21 AM |   |
| 2651 | OsmoMGW                         | Feature | New    | Low      | Support MGCP Piggybacking  |          | 11/18/2017 05:44 PM |   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 2462 | OsmoBSC                         | Feature | New    | Low      | clarify lchan->encr.alg_id   |          | 08/24/2017 01:27 PM | Related to #2462                  |
| 2709 | OsmoPCU                         | Feature | New    | Low      | use osmo_fsm for TBF   |          | 03/03/2018 09:41 PM | Related to #2407,Related to #2709 |
| 2545 | OsmoBSCNAT                      | Feature | New    | Low      | OsmoBSCNAT misses 3GPP AoIP  |          | 05/30/2018 02:14 PM |                                   |
| 2567 | OsmoHLR                         | Feature | New    | Low      | tell the MSC(s) when subscriber data has changed   |          | 10/11/2017 01:50 AM |                                   |
| 2580 | OsmoMGW                         | Feature | New    | Low      | implement timeout/resend mechanism for mgcp_client   |          | 09/04/2019 09:26 AM |                                   |
| 2599 | Cellular Network Infrastructure | Feature | New    | Low      | automatically determine unit test coverage   |          | 09/30/2018 08:20 AM | Is duplicate of #1987             |
| 2806 | UUCP and UseNet                 | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                                      |          | 01/01/2018 01:04 PM |                                   |
| 2610 | libosmocore                     | Feature | New    | Low      | optimize GnuTLS fallback   |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909 |
| 2832 | OsmoMSC                         | Feature | New    | Low      | MNCC doesn't include field for "supported codecs"  |          | 01/16/2018 07:00 AM | Related to #2832,Related to #1683 |
| 2702 | OsmoMGW                         | Feature | New    | Low      | libosmo-mgcp doesn't use osmo_sock_ API  |          | 12/03/2017 09:42 AM |                                   |
| 3033 | OsmoTRX                         | Feature | New    | Low      | Split wiki page into multiple smaller pages  |          | 03/05/2018 11:28 AM |                                   |
| 2802 | linmodem                        | Feature | New    | Low      | report the connected speed in "CONNECT" message  |          | 01/01/2018 12:18 PM |                                   |
| 2804 | linmodem                        | Feature | New    | Low      | DAHDI interface  |          | 01/01/2018 12:27 PM |                                   |
| 2819 | Cellular Network Infrastructure | Feature | New    | Low      | migrate to python3   |          | 07/18/2019 05:22 AM |                                   |
| 2827 | OsmoBTS                         | Feature | New    | Low      | would be nice if logging of the BTS number in osmo-bts matched the BTS number used in osmo-bsc |          | 06/23/2018 06:48 PM |                                   |
| 3280 | OsmocomBB                       | Feature | New    | Low      | Multiparty SS support in OsmocomBB   |          | 05/22/2018 07:40 AM |                                   |
| 3291 | Osmocom.org Servers             | Feature | New    | Low      | gerrit - redmine integration   |          | 05/25/2018 04:34 PM |                                   |
| 2878 | OsmoMSC                         | Feature | New    | Low      | OsmoMSC support for "Follow-on request/proceed"  |          | 01/26/2018 09:11 PM |                                   |
| 2913 | OsmocomBB                       | Feature | New    | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)  |          | 09/29/2018 09:31 AM | Related to #3564                  |
| 3387 | OsmocomBB                       | Feature | New    | Low      | osmocon: Use libosmocore logging system  |          | 10/05/2018 04:21 PM |                                   |
| 3460 | gr-gsm                          | Feature | New    | Low      | python/trx/radio_if.py: (re)implement 'dict_toggle_sign' block in C++                          |          | 08/09/2018 08:18 PM |                                   |
| 2966 | OsmocomBB                       | Feature | New    | Low      | virtphy should have a localhost-only mode  |          | 07/18/2019 05:48 AM |                                   |
| 3019 | OsmoHLR                         | Feature | New    | Low      | add config for number of auth tuples returned  |          | 06/23/2018 06:58 PM |                                   |
| 3602 | OsmoSTP                         | Feature | New    | Low      | M2UA support   |          | 09/30/2018 08:00 AM |                                   |
| 3603 | OsmoSTP                         | Feature | New    | Low      | M2PA support   |          | 10/03/2018 08:58 AM |                                   |
| 3609 | OsmoSTP                         | Feature | New    | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |                                   |

| #    | Project                         | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                       |
|------|---------------------------------|---------|----------|----------|--|----------|---------------------|--|
| 3688 | OsmoSGSN                        | Feature | New      | Low      | move generic gtpub code to libsmocore  |          | 04/15/2019 07:29 AM |  |
| 3830 | OsmoHLR                         | Feature | New      | Low      | make downward compatible db-schema updates automatic   |          | 07/18/2019 06:15 AM |  |
| 3207 | OsmoMGW                         | Feature | New      | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"  |          | 04/24/2018 03:53 PM |  |
| 3845 | libsmocore                      | Feature | New      | Low      | Unified logging in Gb NS / BSSGP code  |          | 03/16/2019 02:33 PM |  |
| 3987 | libsmocore                      | Feature | New      | Low      | introduce libsmocore_init() to replace individual initialization calls   |          | 05/08/2019 03:03 PM | Related to #3987                                     |
| 3345 | OsmoTRX                         | Feature | New      | Low      | merge ms branch  |          | 06/13/2018 07:16 PM |  |
| 4103 | libsmocore                      | Feature | New      | Low      | TUAK support as per 3GPP TS 35.231   |          | 07/12/2019 09:55 AM |  |
| 3469 | OsmoMSC                         | Feature | New      | Low      | Support for "service category" in emergency calls  |          | 08/24/2018 12:48 PM | Related to #3470                                     |
| 3470 | OsmoMSC                         | Feature | New      | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT  |          | 09/01/2018 08:18 PM | Related to #3470                                     |
| 4128 | OsmoHNBGW                       | Feature | New      | Low      | Add support of Huawei hNodeB protocol  |          | 07/24/2019 03:39 PM |  |
| 3482 | OsmoBSC                         | Feature | New      | Low      | handover decision: if a new call causes congestion that would trigger immediate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482                                     |
| 4189 | OsmoBSC                         | Feature | New      | Low      | TTCN-3 tests for load-based hand-over in BSC   |          | 09/04/2019 09:10 AM | Related to #4189                                     |
| 3484 | OsmoBSC                         | Feature | New      | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference                   |          | 10/16/2018 01:30 PM |  |
| 3485 | OsmoBSC                         | Feature | New      | Low      | handover to make room for a less capable subscriber  |          | 10/16/2018 01:16 PM | Related to #3485                                     |
| 3486 | OsmoBSC                         | Feature | New      | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                            |          | 10/16/2018 01:16 PM | Related to #3486, Related to #3638                   |
| 3638 | OsmoBSC                         | Feature | New      | Low      | handover decision 2: load balancing across BSS   |          | 10/16/2018 01:16 PM | Related to #3638, Related to #3638, Related to #3638 |
| 3648 | OsmoMSC                         | Feature | New      | Low      | persistent VLR (across re-starts of osmo-msc / across power outage)  |          | 07/18/2019 06:15 AM | Related to #3649                                     |
| 3649 | OsmoHLR                         | Feature | New      | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                                     |
| 3670 | Cellular Network Infrastructure | Feature | New      | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |  |
| 2475 | libsmocore                      | Feature | Feedback | Low      | XOR authentication not implemented   |          | 11/07/2019 02:40 PM | Related to #2475                                     |
| 3714 | Cellular Network Infrastructure | Feature | New      | Low      | implement Internal Handover With MSC Support   |          | 05/08/2019 11:57 AM | Related to #3714                                     |
| 1539 | OsmoPCU                         | Feature | Stalled  | Low      | Remove knowledge of the TBF from the PDCH object inside PCU  |          | 03/01/2018 11:17 PM |  |
| 1541 | OsmoPCU                         | Feature | Stalled  | Low      | Move TBF list from BTS to the TRX structure  |          | 03/01/2018 11:17 PM | Related to #1538                                     |
| 3732 | OsmoHLR                         | Feature | New      | Low      | Support tacdb query in HLR   |          | 07/18/2019 06:12 AM | Related to #3732                                     |
| 3755 | OsmoMSC                         | Feature | New      | Low      | make retrieval of IMEISV configurable  |          | 05/07/2019 12:28 PM | Related to #3755                                     |



| #    | Project                               | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------------|---------|---------|----------|--|----------|---------------------|---|
| 3779 | Cellular Network Infrastructure       | Feature | New     | Low      | explore providing a VM image with all of osmocom CNI and related tools installed                     |          | 02/04/2019 09:52 AM |   |
| 3831 | OsmoBSC                               | Feature | New     | Low      | BSC support for "network sharing"  |          | 03/08/2019 10:27 PM |   |
| 3962 | OsmoTRX                               | Feature | New     | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled                                |          | 08/26/2019 02:04 PM |   |
| 3988 | OsmoMSC                               | Feature | New     | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                            |          | 05/08/2019 03:26 PM |   |
| 4014 | OsmoBTS                               | Feature | New     | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX             |          | 05/21/2019 12:07 PM |   |
| 4150 | OsmoMGW                               | Feature | New     | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared                                  |          | 08/13/2019 11:01 PM |   |
| 4226 | Retro-Networking / BBS-Revival        | Feature | New     | Low      | STM-1 / USB interface?   |          | 10/14/2019 08:19 PM |   |
| 4242 | Retro-Networking / BBS-Revival        | Feature | New     | Low      | offer CCC event schedule (Fahrplan) as gopher service  |          | 10/28/2019 09:22 AM |   |
| 1823 | OsmoPCU                               | Feature | Stalled | Low      | Ericsson PCU TRAU frame encoding/decoding  |          | 09/04/2019 09:26 AM |   |
| 2893 | OsmoBSC                               | Feature | Stalled | Low      | automatic simulator for large LU load  |          | 09/04/2019 09:23 AM | Related to #2722,Related to #2591,Blocks #2893,Blocks #2893 |
| 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 |   |
| 3476 | OsmoBSC                               | Support | New     | High     | osmo-bsc manual needs to explain the AoIP config 'cs7 instance'                                      |          | 08/20/2018 09:06 AM |   |
| 2622 | OsmoBSC                               | Support | Stalled | High     | Prepare automatic interop testing of OsmoBSC against NG40 core simulator + osmo-bts-virtual + mobile |          | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555          |
| 1983 | rtl-sdr                               | Support | New     | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list   |          | 06/03/2018 12:24 PM |   |
| 2677 | libosmocore                           | Support | New     | Normal   | Make stat_item available over ctrl interface   |          | 09/04/2019 09:21 AM | Related to #2676  |
| 2764 | SDR (Software Defined Radio)          | Support | New     | Normal   | osmocom_fft & siggen can't access the X display  |          | 12/15/2017 06:09 PM |   |
| 4080 | rtl-sdr                               | Support | New     | Normal   | Receiving UTAs on 978 Mhz  |          | 07/02/2019 12:08 PM |   |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New     | Normal   | how to use network inside ec20   |          | 07/31/2019 11:20 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   |
|------|---------------------------------|---------|-------------|----------|--|------------------------|---------------------|--|
| 4122 | OsmoMSC                         | Support | New         | Normal   | Moving to the smpp-config node and getting SMPP messages working               |                        | 07/22/2019 02:07 PM |  |
| 3920 | OsmoSGSN                        | Support | In Progress | Normal   | PCAPs files of 3G PS for Osmocom network and Commercial one                    |                        | 04/18/2019 02:03 PM | Related to #3920, Related to #3936, Related to #3923, Related to #3937, Related to #3922 |
| 1627 | OsmocomBB                       | Support | Stalled     | Low      | DCS_8BIT and DCS_UCS2 encoding supprot   |                        | 07/16/2018 06:53 PM |  |
| 4198 | Cellular Network Infrastructure | Support | New         | Low      | Ignoring TX data, transceiver offline.   |                        | 09/13/2019 05:46 PM |  |
| 4074 | libosmocore                     | Bug     | New         | Normal   | LAPD timers completely broken  | Osmocom CNI Developers | 06/21/2019 04:12 PM | Related to #4074   |
| 1576 | OsmoBTS                         | Feature | New         | Low      | consider using hLayer2 as a pointer storage                                    | Osmocom CNI Developers | 02/02/2017 04:11 PM | Related to #1755   |
| 1755 | OsmoBTS                         | Feature | New         | Low      | osmo-bts-sysmo L1: unify hLayer3 handling                                      | Osmocom CNI Developers | 02/02/2017 04:00 PM | Related to #1755   |
| 1973 | OsmoMSC                         | Feature | New         | Low      | VLR: efficient subscriber lookup   | Osmocom CNI Developers | 07/18/2019 06:15 AM | Related to #1973   |
| 1974 | OsmoMSC                         | Feature | New         | Low      | VLR: high water mark on subscriber storage                                     | Osmocom CNI Developers | 07/18/2019 06:15 AM | Related to #1973   |
| 3142 | Cellular Network Infrastructure | Feature | New         | Low      | Further simplification of "NITB like" setups                                   | Osmocom CNI Developers | 04/05/2018 08:09 PM |  |
| 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 |  |
| 1792 | OsmoPCU                         | Bug     | Stalled     | High     | 2 MS tests: Issue with TS allocation for DL in PCU                             | sysmocom               | 08/17/2017 06:53 AM |  |
| 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 |  |
| 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 |  |
| 3572 | OsmoBTS                         | Bug     | New         | Normal   | Incorrect TDMA frame number calculation on TCH channels                        | sysmocom               | 05/08/2019 06:08 PM | Related to #3803   |
| 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   |
| 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 |  |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|---------|----------|--|----------|---------------------|--|
| 4203 | Core testing infrastructure     | Bug     | New     | Normal   | Make ttcn3-bts-test(-latest) artifacts smaller   | sysmocom | 09/13/2019 11:18 AM |  |
| 1831 | OsmoPCU                         | Bug     | Stalled | Normal   | No handling for padding octets(LI 127) for EGPRS. row 3rd of Table 10.4.14a.1 TS 44.060 version 7.27.0 Release | sysmocom | 04/15/2019 07:46 AM |  |
| 1528 | OsmoPCU                         | Bug     | New     | Low      | Find a real fix for EGPRS_AckNack_w_len_t decoding   | sysmocom | 03/03/2018 09:45 PM |  |
| 1532 | OsmoPCU                         | Bug     | New     | Low      | Increased number of poll timeouts on shared PDCHs  | sysmocom | 03/03/2018 09:45 PM | Related to #1524                                   |
| 1612 | Cellular Network Infrastructure | Bug     | New     | Low      | more configuration consistency checking  | sysmocom | 09/30/2018 11:48 AM |  |
| 1756 | OsmoPCU                         | Bug     | New     | Low      | regression: "tbf: Add state WAIT_ASSIGN"   | sysmocom | 03/03/2018 09:45 PM | Related to #1756                                   |
| 2435 | OsmoHNBGW                       | Bug     | New     | Low      | Osmocom asn1c/libasn1c is based on old fork  | sysmocom | 07/18/2019 06:10 AM | Related to #2435,Related to #2435,Related to #3862 |
| 2437 | OsmoHNBGW                       | Bug     | New     | Low      | synchronize different asn1c APER forks   | sysmocom | 07/18/2019 06:11 AM | Related to #2435,Related to #2436,Related to #3862 |
| 2884 | OsmoMSC                         | Bug     | New     | Low      | Call Control timers are very long and not configurable   | sysmocom | 01/27/2018 08:50 AM |  |
| 2933 | OsmoMSC                         | Bug     | New     | Low      | change of trans->bearer_cap (e.g. via MNCC) will not trigger BSSMAP ASSIGNMENT                                 | sysmocom | 02/12/2018 11:36 AM | Related to #2854                                   |
| 3169 | OsmoMSC                         | Bug     | New     | Low      | OsmoMSC rejects SMPP messages with empty SMS   | sysmocom | 04/14/2018 06:43 PM |  |
| 1804 | OsmoBTS                         | Bug     | Stalled | Low      | osmo-bts-sysmo, osmo-bts-litecell15: L1 phy unusable after PCU disconnects                                     | sysmocom | 05/30/2017 03:35 PM | Related to #57                                     |
| 3753 | Cellular Network Infrastructure | Bug     | New     | Low      | Update .deb to use dh_missing  | sysmocom | 07/18/2019 05:22 AM | Related to #3753                                   |
| 3970 | OsmoTRX                         | Bug     | New     | Low      | libusrp fails to compile 1/4 of times in jenkins with PARALLEL_MAKE set  | sysmocom | 08/09/2019 12:27 PM | Is duplicate of #3970                              |
| 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                                   |
| 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                                   |
| 4124 | OsmoBSCNAT                      | Feature | New     | Normal   | OsmoBSCNAT : Write user manual   | sysmocom | 07/22/2019 09:02 AM | Related to #4124                                   |
| 4038 | OsmoMSC                         | Feature | New     | Normal   | MSC_Tests_lu: BSC_ConnectionHandler.ttcn missing handling of RAB-AssignmentRequest                             | sysmocom | 06/03/2019 02:54 PM |  |
| 4212 | Core testing infrastructure     | Feature | New     | Normal   | TTCN3 docker containers: tell glihc to print segfault output to stderr   | sysmocom | 11/07/2019 03:27 PM |  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee        | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|-----------------|---------------------|--|
| 1527 | OsmoPCU                         | Feature | New    | Low      | Set correct values of the puncturing scheme and the retransmission flag                            | sysmocom        | 03/03/2018 09:45 PM |  |
| 1529 | OsmoPCU                         | Feature | New    | Low      | Support MCS 5-9 in uplink  | sysmocom        | 03/03/2018 09:45 PM |  |
| 1536 | OsmoPCU                         | Feature | New    | Low      | Implement adaptive CS selection  | sysmocom        | 03/03/2018 09:45 PM | Related to #1536,Related to #1543                  |
| 1558 | OsmoPCU                         | Feature | New    | Low      | Generate BSSGP LLC Discarded messages on TBF/MS free   | sysmocom        | 04/15/2019 07:52 AM |  |
| 1687 | osmo-sip-connector              | Feature | New    | Low      | osmo-sip-connector: Explore 3-way conference call  | sysmocom        | 09/04/2019 09:31 AM |  |
| 1902 | OsmoBTS                         | Feature | New    | Low      | unify/refactor dynamic timeslot code   | sysmocom        | 07/18/2019 06:08 AM | Related to #1902,Related to #3099                  |
| 2436 | OsmoHNBGW                       | Feature | New    | Low      | Test cases for asn1c APER encoding   | sysmocom        | 07/18/2019 06:11 AM | Related to #2435,Related to #2436,Related to #3862 |
| 3229 | Cellular Network Infrastructure | Feature | New    | Low      | build-system: jenkins.sh: Improve debian package generation test coverage during Gerrit submission | sysmocom        | 05/08/2019 02:36 PM | Related to #3228                                   |
| 3454 | OsmoBSC                         | Feature | New    | Low      | disable/constrain/hide "multiple msc" concept  | sysmocom        | 08/08/2018 02:22 PM |  |
| 4040 | Cellular Network Infrastructure | Feature | New    | Low      | Use "COPY --from" in Dockerfiles to avoid cloning from scratch again and again                     | sysmocom        | 06/04/2019 09:49 AM |  |
| 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                                   |
| 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 |  |
| 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 |  |
| 3676 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                                | osmo-gsm-tester | 10/29/2018 01:11 PM |  |
| 2245 | OsmoGSMTester                   | Bug     | New    | Low      | osmo-bts cfg: fix band string  | osmo-gsm-tester | 05/15/2017 12:58 PM | Related to #2230                                   |
| 2230 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource   | osmo-gsm-tester | 12/14/2017 04:08 PM | Related to #2230                                   |
| 2311 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature   | osmo-gsm-tester | 05/31/2017 04:21 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 |  |
| 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 |  |
| 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 |  |

| #    | Project       | Tracker | Status  | Priority | Subject   | Assignee               | Updated             | Related issues                          |
|------|---------------|---------|---------|----------|---|------------------------|---------------------|---|
| 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 |   |
| 2646 | OsmoGSMTester | Feature | New     | Normal   | osmo-gsm-tester: Add osmo-sip-connector support                                       | osmo-gsm-tester        | 04/23/2018 10:40 AM |   |
| 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                        |
| 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 |   |
| 2197 | OsmoGSMTester | Feature | Stalled | Normal   | osmo-gsm-tester: use MNCC interface   | osmo-gsm-tester        | 11/30/2017 10:41 AM | Related to #2194, is duplicate of #2197 |
| 2225 | OsmoGSMTester | Feature | New     | Low      | tester nitb: connect ctrl interface only once   | osmo-gsm-tester        | 05/15/2017 12:58 PM |   |
| 2196 | OsmoGSMTester | Feature | New     | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state | osmo-gsm-tester        | 05/15/2017 12:58 PM |   |
| 2200 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case                     | osmo-gsm-tester        | 05/15/2017 12:58 PM | Related to #2201                        |
| 2207 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester trial run-dir: improve structure                                      | osmo-gsm-tester        | 05/24/2017 01:04 PM |   |
| 2208 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: allow running binaries for a whole suite, or only for a single test  | osmo-gsm-tester        | 05/30/2017 01:07 PM | Related to #2208                        |
| 2287 | OsmoGSMTester | Feature | New     | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr | osmo-gsm-tester        | 05/23/2017 12:11 PM |   |
| 2209 | OsmoGSMTester | Feature | New     | Low      | osmo-gsm-tester: add test API to explicitly free a resource                           | osmo-gsm-tester        | 05/19/2017 11:01 AM | Related to #2208                        |
| 2271 | OsmoGSMTester | Feature | New     | Low      | add test names to pick to the -s cmdline option                                       | osmo-gsm-tester        | 05/18/2017 12:32 PM |   |
| 2288 | OsmoGSMTester | Feature | New     | Low      | logging: print in a short way which resource is being reserved and used               | osmo-gsm-tester        | 05/23/2017 02:25 PM |   |
| 2612 | OsmoGSMTester | Feature | New     | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted              | osmo-gsm-tester        | 11/02/2017 02:55 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 |   |
| 3501 | SIMtrace 2    | Feature | New     | Low      | Multi-sim addon board idea  | sysmocom hardware team | 08/28/2018 03:00 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 |   |
| 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 |   |
| 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                        |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|----------------|
| 3127 | Cellular Network Infrastructure | Bug     | New    | High     | update the [[Osmocom Network In The Box]] wiki page | daniel   | 05/08/2019 02:37 PM |                |

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