

## Issues

| #    | Project                      | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 1504 | UmTRX                        | Feature | New    | Normal   | LMS6002 phase error increases when Rx is enabled and varies with temperature                | ttsou    | 02/19/2016 10:52 PM |                                   |
| 1511 | UmTRX                        | Feature | New    | Normal   | Solve Tx and Rx I/Q imbalance for wideband signals  |          | 02/19/2016 10:52 PM |                                   |
| 1505 | UmTRX                        | Bug     | New    | High     | OHM4 footprint incorrect  |          | 02/19/2016 10:52 PM |                                   |
| 1518 | UmTRX                        | Feature | New    | Normal   | Upper limit of the clock is too low   |          | 02/19/2016 10:52 PM |                                   |
| 1517 | UmTRX                        | Feature | New    | Normal   | U_FL (UMC) connectors are not reliable after few connections                                |          | 02/19/2016 10:52 PM |                                   |
| 1516 | UmTRX                        | Feature | New    | Normal   | There are no port to control external equipment like PA                                     |          | 02/19/2016 10:52 PM |                                   |
| 1515 | UmTRX                        | Feature | New    | Normal   | Heat dissipation and mounting issue   |          | 02/19/2016 10:52 PM |                                   |
| 1474 | SDR (Software Defined Radio) | Bug     | New    | High     | USB Claim Interface Error   | steve-m  | 02/20/2016 08:23 PM |                                   |
| 1477 | Mobile (in)Security          | Bug     | New    | High     | RACH flood DoS  |          | 02/21/2016 04:34 PM |                                   |
| 1483 | Mobile (in)Security          | Bug     | New    | High     | USSD state is not reset when switching cells  |          | 02/21/2016 04:34 PM |                                   |
| 1481 | Mobile (in)Security          | Bug     | New    | High     | Random LAPDm MAC-block padding is not deployed yet  |          | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1480 | Mobile (in)Security          | Bug     | New    | High     | A5/3 is not deployed in GSM networks  |          | 02/21/2016 04:34 PM |                                   |
| 1482 | Mobile (in)Security          | Bug     | New    | Normal   | Sending the TMSI of the old/previous network  |          | 02/21/2016 04:35 PM |                                   |
| 1506 | UmTRX                        | Feature | New    | Normal   | Move to the latest stable UHD   | ipse     | 02/21/2016 04:47 PM |                                   |
| 1509 | UmTRX                        | Feature | New    | Normal   | Store calibration values in EEPROM  | ipse     | 02/21/2016 04:47 PM |                                   |
| 1510 | UmTRX                        | Feature | New    | High     | Complete UHD integration  | ipse     | 02/21/2016 04:47 PM |                                   |
| 1508 | UmTRX                        | Feature | New    | High     | Implement UmSEL diversity switch control  | ipse     | 02/21/2016 04:47 PM |                                   |
| 1507 | UmTRX                        | Feature | New    | High     | Implement UmSEL tuner control   | ipse     | 02/21/2016 04:47 PM |                                   |
| 64   | Miscellaneous Projects       | Bug     | New    | Normal   | osmo-bts-amp: 2.2uF capacitors next to PA need to be 0603, not 0805                         | tnt      | 02/21/2016 04:48 PM |                                   |
| 1462 | OsmocomBB                    | Bug     | New    | High     | ../../../../src/utlis.c:182:7: error: only weak aliases are supported in this configuration |          | 02/21/2016 04:48 PM |                                   |
| 1547 | OsmoPCU                      | Feature | New    | Normal   | downlink power control on PDTCH   |          | 02/23/2016 03:04 PM |                                   |
| 1550 | OsmoPCU                      | Bug     | New    | Normal   | Cell reselection under network control  |          | 02/23/2016 03:06 PM |                                   |
| 1554 | OsmoPCU                      | Feature | New    | Normal   | per-MS BSSGP flow control   |          | 02/23/2016 03:12 PM | Related to #1554                  |
| 1561 | OsmoBTS                      | Feature | New    | Low      | Multi-TRX support (one osmo-bts process per TRX)  |          | 02/23/2016 03:18 PM |                                   |
| 1570 | OsmoBTS                      | Feature | New    | Low      | Select RTP payload identifier based on requested speech mode                                |          | 02/23/2016 03:31 PM |                                   |
| 1571 | OsmoBTS                      | Feature | New    | Low      | Support RTP multiplexing instead of per-call RTP streams                                    |          | 02/23/2016 03:32 PM |                                   |
| 1577 | OsmoBTS                      | Bug     | New    | Normal   | mph_send_config_logchpar doesn't update encryption config                                   |          | 02/23/2016 03:39 PM |                                   |
| 1586 | OsmoSGSN                     | Feature | New    | Normal   | Implement QoS profile support   |          | 02/23/2016 03:45 PM |                                   |

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|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|---------------------------------|
| 1588 | OsmoSGSN                              | Feature | New    | Normal   | Inter-RAT hand-over   |          | 02/23/2016 03:46 PM |                                 |
| 1623 | OsmoSMSC                              | Feature | New    | Normal   | Configure delivery report for the SMPP delivery links   | zecke    | 02/24/2016 01:49 PM |                                 |
| 1678 | SDR (Software Defined Radio)          | Bug     | New    | Normal   | Use -undefined dynamic_lookup when using Python and building on Mac OS X                                |          | 03/30/2016 11:25 PM |                                 |
| 1689 | OsmoSMSC                              | Feature | New    | Normal   | insert: Change destination number based on criteria similiar to route handling on output                | zecke    | 04/06/2016 12:18 PM |                                 |
| 1690 | OsmoSMSC                              | Bug     | New    | Normal   | Insert: Generate message ID (e.g. UUID)   | zecke    | 04/06/2016 12:26 PM |                                 |
| 1692 | OsmoBTS                               | Feature | New    | Low      | clock source monitoring   |          | 04/13/2016 09:49 AM |                                 |
| 72   | OsmoNITB                              | Bug     | New    | Low      | struct gsm_call can leak..  |          | 05/09/2016 07:37 PM |                                 |
| 70   | OsmoNITB                              | Bug     | New    | Low      | nitb crashes in the rtp_proxy when a phone on a MT-call sends a 'CONNECT' before the CRCX ACK came back |          | 05/09/2016 07:37 PM |                                 |
| 61   | OsmoBTS                               | Feature | New    | Low      | osmo-bts: split TRAU/RTP frame handling into separate process   |          | 06/13/2016 01:16 PM |                                 |
| 1751 | OsmoBTS                               | Bug     | New    | Low      | incompatibility between LCR and DTX   |          | 06/14/2016 04:39 PM |                                 |
| 1716 | libosmocore                           | Feature | New    | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717 |
| 1813 | Qualcomm Linux Modems by Quectel & Co | Bug     | New    | Normal   | cat /dev/snd/* causes kernel oops   |          | 09/30/2016 04:00 PM |                                 |
| 1814 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Low      | check if qtools work  |          | 10/02/2016 04:08 AM |                                 |
| 1815 | Qualcomm Linux Modems by Quectel & Co | Feature | New    | Normal   | tool for building binary ipk from .list/.control  |          | 10/02/2016 05:06 AM |                                 |
| 1832 | Linux Kernel GTP-U                    | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5   |          | 10/27/2016 08:56 AM |                                 |
| 33   | OsmoSGSN                              | Feature | New    | Low      | real LLC implementation with fragmentation and re-transmissions   |          | 11/09/2016 09:45 AM |                                 |
| 1901 | osmo-qcdiag                           | Feature | New    | Normal   | osmo-qcdiag: Ability to read/write NV data  |          | 01/11/2017 12:15 PM |                                 |
| 1900 | osmo-qcdiag                           | Feature | New    | Normal   | osmo-qcdiag: Add FUSE based access for EFS  |          | 01/11/2017 12:15 PM |                                 |
| 1899 | osmo-qcdiag                           | Bug     | New    | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working  |          | 01/11/2017 12:15 PM |                                 |
| 1908 | osmo-qcdiag                           | Feature | New    | Normal   | add VTY interface to osmo-qcdiag  | laforge  | 01/12/2017 01:15 PM |                                 |
| 1907 | osmo-qcdiag                           | Bug     | New    | Normal   | osmo-qcdiag detects CRC errors relatively often   |          | 01/23/2017 01:47 AM |                                 |
| 1755 | OsmoBTS                               | Feature | New    | Low      | osmo-bts-sysmo L1: unify hLayer3 handling   |          | 02/02/2017 04:00 PM | Related to #1755                |
| 1576 | OsmoBTS                               | Feature | New    | Low      | consider using hLayer2 as a pointer storage   |          | 02/02/2017 04:11 PM | Related to #1755                |
| 1549 | OsmoPCU                               | Feature | New    | Normal   | DRX support for GPRS  |          | 02/04/2017 08:11 AM | Related to #1942                |
| 1897 | OsmocomTETRA                          | Bug     | New    | Low      | Inefficient sequence search in tetra_find_train_seq   |          | 04/10/2017 01:04 AM |                                 |

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|------|--|---------|--------|----------|---|----------|---------------------|------------------|
| 2003 | libosmo-sccp + libosmo-sigtran                         | Feature | New    | Low      | Implement M2UA support  |          | 04/10/2017 12:01 PM |                  |
| 2007 | libosmo-sccp + libosmo-sigtran                         | Feature | New    | Low      | Implement GT based routing  |          | 04/10/2017 12:04 PM |                  |
| 2008 | libosmo-sccp + libosmo-sigtran                         | Feature | New    | Low      | Implement Global Title Translation  |          | 04/10/2017 12:05 PM |                  |
| 2009 | libosmo-sccp + libosmo-sigtran                         | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")  |          | 04/10/2017 12:09 PM |                  |
| 2175 | OP25   | Feature | New    | High     | Update code for GNURadio 3.6 and later  |          | 04/22/2017 04:14 PM |                  |
| 2173 | OP25   | Feature | New    | High     | Remove dependency on ET++   |          | 04/22/2017 04:14 PM |                  |
| 2172 | OP25   | Bug     | New    | High     | HDU often missing in captures   |          | 04/22/2017 04:14 PM |                  |
| 2171 | OP25   | Feature | New    | High     | Use libfftw3 for IFFT/FFT functions.  |          | 04/22/2017 04:14 PM |                  |
| 2170 | OP25   | Bug     | New    | High     | Implement forward error-correction code, remove IT++ dependency                       |          | 04/22/2017 04:14 PM |                  |
| 2169 | OP25   | Bug     | New    | High     | First-cut of trunking support   |          | 04/22/2017 04:15 PM |                  |
| 2168 | OP25   | Bug     | New    | High     | Implement Forward error correction for LDU1/2   |          | 04/22/2017 04:15 PM |                  |
| 2167 | OP25   | Feature | New    | High     | Implement Encryption/Decryption P25 blocks  |          | 04/22/2017 04:15 PM |                  |
| 2166 | OP25   | Feature | New    | High     | Add support for Max's I/Q 455khz downconverter  |          | 04/22/2017 04:15 PM |                  |
| 2162 | OP25   | Bug     | New    | High     | Fix bit-ordering in output for VC55.  |          | 04/22/2017 04:15 PM |                  |
| 2160 | OP25   | Feature | New    | High     | Add "datascope" to usrp_p25_rx.py   |          | 04/22/2017 04:16 PM |                  |
| 2158 | OP25   | Feature | New    | High     | Create a shared library for decoding for WireShark and the decoder.                   |          | 04/22/2017 04:16 PM |                  |
| 2157 | OP25   | Feature | New    | High     | Fix "traffic" tab so it displays data for non-HDU data units                          |          | 04/22/2017 04:16 PM |                  |
| 2156 | OP25   | Feature | New    | High     | Implement forward error correction for HDU.   |          | 04/22/2017 04:16 PM |                  |
| 2155 | OP25   | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.                                  |          | 04/22/2017 04:16 PM |                  |
| 2179 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | no sign about OsmoCon outside of venue  |          | 04/24/2017 07:10 PM |                  |
| 2224 | SDR (Software Defined Radio)                           | Feature | New    | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |                  |
| 2225 | OsmoGSMTester  | Feature | New    | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |                  |
| 2196 | OsmoGSMTester  | Feature | New    | Low      | libmsc ctrl interface: add CTRL command to query a single subscriber's attached state |          | 05/15/2017 12:58 PM |                  |
| 2245 | OsmoGSMTester  | Bug     | New    | Low      | osmo-bts cfg: fix band string   |          | 05/15/2017 12:58 PM | Related to #2230 |
| 2271 | OsmoGSMTester  | Feature | New    | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 PM |                  |
| 2209 | OsmoGSMTester  | Feature | New    | Low      | osmo-gsm-tester: add test API to explicitly free a resource                           |          | 05/19/2017 11:01 AM | Related to #2208 |

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| 2287 | OsmoGSMTester  | Feature | New    | Low      | processes launched by gsmtester: store command lines called next to stdout and stderr |          | 05/23/2017 12:11 PM |                                   |
| 2288 | OsmoGSMTester  | Feature | New    | Low      | logging: print in a short way which resource is being reserved and used               |          | 05/23/2017 02:25 PM |                                   |
| 2292 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | Time with community users during OsmoCon  |          | 05/25/2017 03:03 PM |                                   |
| 2208 | OsmoGSMTester  | Feature | New    | Low      | osmo-gsm-tester: allow running binaries for a whole suite, or only for a single test  |          | 05/30/2017 01:07 PM | Related to #2208                  |
| 2311 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: smpp_first feature                              |          | 05/31/2017 04:21 PM |                                   |
| 2313 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: imsi extension                                  |          | 05/31/2017 04:27 PM |                                   |
| 2314 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: smpp: correct ESME routing                            |          | 05/31/2017 04:29 PM |                                   |
| 2318 | OsmoGSMTester  | Feature | New    | Normal   | testing sysmobts: skip copying of binaries when the same are already installed        |          | 06/07/2017 03:55 PM |                                   |
| 2364 | OsmoBTS  | Bug     | New    | Low      | OsmoBTS sends SI1 even if it is not specified/needed                                  |          | 07/15/2017 10:06 AM |                                   |
| 2366 | OsmoBTS  | Feature | New    | Low      | OsmoBTS lacks EXTENDED BCCH support   |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014 |
| 2259 | libosmo-sccp + libosmo-sigtran                         | Bug     | New    | Normal   | problem with local reference  | laforge  | 07/19/2017 04:25 PM |                                   |
| 2399 | OsmoGSMTester  | Feature | New    | Normal   | add tests for graceful restart of individual components                               |          | 07/25/2017 12:02 AM |                                   |
| 2405 | OsmoPCU  | Feature | New    | Low      | RLC/MAC encoding routines don't use bitvec L/H  |          | 07/29/2017 09:01 AM |                                   |
| 2431 | OsmoGSMTester  | Bug     | New    | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME                                  |          | 08/10/2017 03:47 PM |                                   |
| 2374 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                   |          | 08/10/2017 04:37 PM |                                   |
| 2438 | OsmoNITB   | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV                     |          | 08/14/2017 09:36 AM |                                   |
| 2414 | OsmoNITB   | Bug     | New    | Normal   | SMSC: deliverSM message with no user_message_reference                                |          | 08/15/2017 05:53 PM | Related to #2413,Related to #2414 |
| 1919 | pySim  | Bug     | New    | Low      | issue with grcardsim from Greencard (grcard.cn)                                       |          | 08/17/2017 06:45 AM |                                   |
| 2433 | OsmoNITB   | Bug     | New    | Low      | Drop MGCP_DUMMY_LOAD frames and use proper Osmux Dummy frames                         | pespin   | 08/21/2017 02:23 PM |                                   |
| 2462 | OsmoBSC  | Feature | New    | Low      | clarify lchan->encr.alg_id  |          | 08/24/2017 01:27 PM | Related to #2462                  |
| 2186 | libosmocore  | Feature | New    | Low      | split libosmocrypto   |          | 10/05/2017 06:25 AM |                                   |
| 2546 | OsmoMGW  | Feature | New    | Low      | support play-out/announcement endpoint type   |          | 10/06/2017 12:30 PM |                                   |
| 2567 | OsmoHLR  | Feature | New    | Low      | tell the MSC(s) when subscriber data has changed                                      |          | 10/11/2017 01:50 AM |                                   |
| 2266 | OsmoGSMTester  | Feature | New    | Normal   | in the gsm tester, use ipa.py from openbsc instead of the current CTRL implementation |          | 10/16/2017 12:36 PM |                                   |
| 1916 | OsmocomBB  | Bug     | New    | Normal   | building GNU ARM toolchain with gcc-4.8 fails on modern texinfo                       |          | 10/16/2017 02:14 PM |                                   |

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| 2452 | OsmoGSMTester                   | Bug     | New    | Low      | osmo-gsm-tester: ESME should send submit_sm as a response to deliver_sm                   | pespin   | 10/29/2017 06:33 PM | Related to #2429                  |
| 2615 | OsmoGSMTester                   | Bug     | New    | Normal   | Add API to check GPS lock in BTS  |          | 11/03/2017 05:00 PM |                                   |
| 2651 | OsmoMGW                         | Feature | New    | Low      | Support MGCP Piggybacking   |          | 11/18/2017 05:44 PM |                                   |
| 2189 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: EC20: cannot send SMS  | lynxis   | 11/28/2017 04:21 PM |                                   |
| 2690 | OsmocomBB                       | Bug     | New    | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access   |          | 11/29/2017 09:33 AM |                                   |
| 2694 | OsmocomBB                       | Bug     | New    | Normal   | SIGSEGV in lapdm code   |          | 11/30/2017 08:45 AM | Related to #2694                  |
| 2697 | osmo-qcdiag                     | Feature | New    | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories             |          | 11/30/2017 06:03 PM |                                   |
| 2702 | OsmoMGW                         | Feature | New    | Low      | libosmo-mgcp doesn't use osmo_sock_API  |          | 12/03/2017 09:42 AM |                                   |
| 2705 | OsmocomBB                       | Bug     | New    | Normal   | GSM48_MMR_NREG_REQ followed by GSM48_MMR_REG_REQ don't attach to the network              |          | 12/03/2017 09:50 PM |                                   |
| 2707 | OsmoGSMTester                   | Feature | New    | Normal   | Add support for verifying content of log files after test is run                          |          | 12/04/2017 05:05 PM |                                   |
| 2717 | libosmo-abis                    | Bug     | New    | Low      | libosmo-abis doesn't use ipa_ccm_make_id_resp()   |          | 12/06/2017 05:47 PM |                                   |
| 68   | OsmoBSC                         | Bug     | New    | Low      | ipaccess-config should work with -u ID -o IP -r BTS_IP                                    |          | 12/10/2017 07:52 PM |                                   |
| 69   | OsmoBSC                         | Bug     | New    | Low      | No timers for various calls   |          | 12/10/2017 07:53 PM |                                   |
| 73   | OsmoBSC                         | Bug     | New    | Low      | Kill the paging_init_if_needed method in paging.c   |          | 12/10/2017 07:53 PM |                                   |
| 1858 | OsmoBSC                         | Feature | New    | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |                                   |
| 1596 | Cellular Network Infrastructure | Feature | New    | Low      | Generation of accounting/billing data   |          | 12/10/2017 08:03 PM |                                   |
| 1598 | Cellular Network Infrastructure | Feature | New    | Low      | Scripting language interface  |          | 12/10/2017 08:04 PM |                                   |
| 1600 | OsmoBSC                         | Feature | New    | Low      | BSC: Make SI / rest octests more configurable   |          | 12/10/2017 08:04 PM |                                   |
| 1613 | OsmoBSC                         | Feature | New    | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                    |          | 12/10/2017 08:06 PM |                                   |
| 1643 | OsmoHLR                         | Feature | New    | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643     |
| 1659 | OsmoBSC                         | Feature | New    | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time |          | 12/10/2017 08:06 PM |                                   |
| 1857 | OsmoBSC                         | Feature | New    | Normal   | aggregate and report OML ALERT messages received from BTSs                                |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605 |
| 34   | OsmoBSC                         | Bug     | New    | Normal   | ipaccess init code needs proper state machines  |          | 12/10/2017 08:16 PM | Related to #34                    |
| 2230 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2764 | SDR (Software Defined Radio)    | Support | New    | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 PM |                                   |
| 2390 | OsmoMSC                         | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |                                   |

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| 2191 | OsmoMSC         | Feature | New    | Normal   | raw PDU mode for SMPP  |          | 12/23/2017 05:48 PM |                                   |
| 2798 | linmodem        | Feature | New    | Normal   | ALSA Soundcard Support   |          | 01/01/2018 12:02 PM |                                   |
| 2800 | linmodem        | Feature | New    | Normal   | Interop testing with real modems   |          | 01/01/2018 12:16 PM |                                   |
| 2801 | linmodem        | Feature | New    | Normal   | V.90 completion  |          | 01/01/2018 12:18 PM |                                   |
| 2802 | linmodem        | Feature | New    | Low      | report the connected speed in "CONNECT" message                                |          | 01/01/2018 12:18 PM |                                   |
| 2803 | linmodem        | Bug     | New    | Low      | return ERROR for unsupported AT commands                                       |          | 01/01/2018 12:19 PM |                                   |
| 2804 | linmodem        | Feature | New    | Low      | DAHDI interface  |          | 01/01/2018 12:27 PM |                                   |
| 2806 | UUCP and UseNet | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                      |          | 01/01/2018 01:04 PM |                                   |
| 2808 | Z-Netz          | Bug     | New    | Normal   | Create + Document VM/emulation setup for running ZERBERUS                      |          | 01/01/2018 01:09 PM |                                   |
| 2809 | Z-Netz          | Bug     | New    | Normal   | Build ZConnect <-> UseNet gateway  |          | 01/01/2018 01:33 PM |                                   |
| 2813 | Z-Netz          | Feature | New    | Normal   | Create + Document OpenXP setup on Linux  |          | 01/01/2018 01:41 PM |                                   |
| 2814 | Z-Netz          | Feature | New    | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                     |          | 01/01/2018 01:41 PM |                                   |
| 2815 | linmodem        | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)   |          | 01/01/2018 02:48 PM |                                   |
| 2788 | OsmoMSC         | Feature | New    | Normal   | OsmoMSC should handle CM Service Abort message                                 | neels    | 01/04/2018 10:37 AM |                                   |
| 2724 | OsmoBSC         | Feature | New    | Normal   | Improve default timers   | laforge  | 01/04/2018 11:06 AM | Related to #2724                  |
| 2832 | OsmoMSC         | Feature | New    | Low      | MNCC doesn't include field for "supported codecs"                              |          | 01/16/2018 07:00 AM | Related to #2832,Related to #1683 |
| 2878 | OsmoMSC         | Feature | New    | Low      | OsmoMSC support for "Follow-on request/proceed"                                |          | 01/26/2018 09:11 PM |                                   |
| 2916 | OsmoMSC         | Bug     | New    | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph                       |          | 02/09/2018 04:20 PM |                                   |
| 2928 | OsmoMSC         | Bug     | New    | Normal   | OsmoMSC doesn't do BSSMAP ASSIGNMENT if no MNCC_RTP_CREATE is received         |          | 02/11/2018 05:38 PM |                                   |
| 2933 | OsmoMSC         | Bug     | New    | Low      | change of trans->bearer_cap (e.g. via MNCC) will not trigger BSSMAP ASSIGNMENT |          | 02/12/2018 11:36 AM | Related to #2854                  |
| 2675 | OsmoBTS         | Bug     | New    | Low      | /usr/bin/lc15bts-mgr can't find GPS 3D fix to for calibration                  | pespin   | 02/13/2018 03:34 PM |                                   |
| 2942 | OsmoBTS         | Bug     | New    | Low      | osmo-bts-virtual+virtphy+mobile paging for SMS delivery fails                  |          | 02/13/2018 05:05 PM |                                   |
| 2995 | OsmocomBB       | Bug     | New    | Normal   | Wrong parsing of PAGING TYPE 3   |          | 02/24/2018 11:03 PM | Related to #2994                  |
| 3000 | OsmoBSC         | Bug     | New    | Normal   | OsmoBSC issues "RSL Connect" command too early -> race conditions              |          | 02/25/2018 12:32 PM | Related to #2470,Related to #4179 |
| 57   | OsmoBTS         | Bug     | New    | Low      | sysmobts L1 is not properly closed, DSP firmware reload is required            |          | 03/01/2018 11:16 PM | Related to #57                    |
| 1537 | OsmoPCU         | Feature | New    | Low      | Move the BSSGP handling to libosmocore   |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388 |
| 1771 | OsmoBTS         | Feature | New    | Low      | osmo-bts-trx: clarify check_transceiver_availability()                         |          | 03/01/2018 11:17 PM | Related to #1770                  |
| 1837 | OsmoBTS         | Feature | New    | Low      | autogenerate dtx_dl_amr_fsm.*  |          | 03/01/2018 11:17 PM |                                   |

| #    | Project  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|--|---------|--------|----------|---|----------|---------------------|------------------|
| 3033 | OsmoTRX  | Feature | New    | Low      | Split wiki page into multiple smaller pages   |          | 03/05/2018 11:28 AM |                  |
| 2382 | OsmoBSC  | Bug     | New    | Normal   | T3105 not consistently communicated to all BTS models                                   |          | 03/05/2018 07:02 PM |                  |
| 2411 | OsmoMGW  | Feature | New    | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded       |          | 03/05/2018 07:04 PM |                  |
| 1955 | OsmoNITB   | Bug     | New    | Normal   | Investigate "Bad signalling message" error  |          | 03/05/2018 07:33 PM |                  |
| 1904 | OsmoNITB   | Bug     | New    | Normal   | get rid of deprecated functions   |          | 03/05/2018 07:33 PM |                  |
| 1829 | OsmoNITB   | Bug     | New    | Normal   | Fix warnings introduced by ctrl constify  |          | 03/05/2018 07:34 PM |                  |
| 54   | OsmoNITB   | Bug     | New    | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent                       |          | 03/05/2018 07:34 PM |                  |
| 48   | OsmoNITB   | Bug     | New    | Normal   | Periodic timer and paging   |          | 03/05/2018 07:34 PM |                  |
| 38   | OsmoNITB   | Bug     | New    | Normal   | subscr_update should sync database before dispatching the signal                        |          | 03/05/2018 07:34 PM |                  |
| 37   | OsmoNITB   | Bug     | New    | Normal   | RTP Proxy dealing with SSRC change and sequence numbers                                 |          | 03/05/2018 07:34 PM |                  |
| 28   | OsmoNITB   | Bug     | New    | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)                         |          | 03/05/2018 07:36 PM |                  |
| 21   | OsmoNITB   | Bug     | New    | Low      | we don't see CHANnel ReQireD from motorola EZX phones at call setup                     |          | 03/05/2018 07:36 PM |                  |
| 3038 | multi-voltage USB UART                                 | Feature | New    | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |                  |
| 3058 | OsmoBTS  | Bug     | New    | Low      | RSL SACCH FILLING are per TRX, not BTS scope  |          | 03/11/2018 08:55 PM |                  |
| 3067 | OsmoTRX  | Bug     | New    | Normal   | osmo-trx usrp b100 time out and packet loss between host and device                     | ttsou    | 03/15/2018 06:36 PM |                  |
| 2523 | OsmoMGW  | Feature | New    | Normal   | transcoding: remove "not yet implemented" from MNCC manual once transcoding is in place | daniel   | 03/16/2018 07:54 PM |                  |
| 3097 | OsmoBSC  | Feature | New    | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097 |
| 3126 | SDR (Software Defined Radio)                           | Bug     | New    | Low      | Windows 10 Pro 1709: crash of rtl_test.exe  |          | 03/30/2018 02:16 PM |                  |
| 3141 | OsmoTRX  | Bug     | New    | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation                           |          | 04/05/2018 05:46 PM |                  |
| 3142 | Cellular Network Infrastructure                        | Feature | New    | Low      | Further simplification of "NITB like" setups  |          | 04/05/2018 08:09 PM |                  |
| 1688 | libosmo-sccp + libosmo-sigtran                         | Feature | New    | Low      | SUA: support N-STATE indication primitives for connect and disconnect events            |          | 04/08/2018 07:59 AM |                  |
| 2646 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support   |          | 04/23/2018 10:40 AM |                  |
| 3200 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | OsmoDevCon: Use loudspeakers even at IN-Berlin  |          | 04/23/2018 06:53 PM |                  |
| 3201 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | OsmoDevCon: Add one more rectangular table  |          | 04/23/2018 07:00 PM |                  |
| 3207 | OsmoMGW  | Feature | New    | Low      | Support for RTP Payload Format according to "ETSI TS 101 318"                           |          | 04/24/2018 03:53 PM |                  |

| #    | Project     | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|-------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 3210 | osmo-fl2k   | Feature | New    | Low      | man pages   | steve-m  | 04/24/2018 08:55 PM |                                   |
| 2795 | OsmoMSC     | Feature | New    | Normal   | Handle UTRAN_CLSM_CHG in MSC  | neels    | 04/30/2018 12:06 PM | Related to #3043                  |
| 2610 | libosmocore | Feature | New    | Low      | optimize GnuTLS fallback  |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909 |
| 3243 | OsmoBSC     | Bug     | New    | Normal   | there is MGW config for each separate 'msc', but the MGW settings are stored only once globally                   |          | 05/07/2018 03:10 PM |                                   |
| 3280 | OsmocomBB   | Feature | New    | Low      | Multiparty SS support in OsmocomBB  |          | 05/22/2018 07:40 AM |                                   |
| 18   | OsmoNITB    | Feature | New    | Low      | store last location identity to database  |          | 05/24/2018 01:15 PM |                                   |
| 3309 | libosmocore | Feature | New    | Normal   | osmo_timer_* should use monotonic clock   |          | 05/31/2018 03:59 PM | Related to #3309                  |
| 3240 | gr-osmosdr  | Bug     | New    | Normal   | Expose airspy gain setting in gr-osmosdr block  |          | 06/03/2018 12:08 PM |                                   |
| 2824 | gr-osmosdr  | Bug     | New    | High     | Corrupted double-linked for Raspbian Stretch when running osmocom_fft (and any other program using osmosdr.source |          | 06/03/2018 12:08 PM |                                   |
| 2216 | gr-osmosdr  | Bug     | New    | Normal   | uhd: LO offset doesn't seem to work properly  |          | 06/03/2018 12:08 PM |                                   |
| 2607 | rtl-sdr     | Bug     | New    | Normal   | rtl-sdr gnuradio cfile is outdated  |          | 06/03/2018 12:23 PM |                                   |
| 1983 | rtl-sdr     | Support | New    | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list  |          | 06/03/2018 12:24 PM |                                   |
| 3315 | rtl-sdr     | Feature | New    | Normal   | review and possibly apply patches from debian package   | steve-m  | 06/03/2018 01:17 PM |                                   |
| 3329 | OsmoBTS     | Feature | New    | Normal   | osmo-bts: Implement IMMEDIATE ASSIGNMENT EXTENDED   |          | 06/08/2018 12:02 PM | Related to #3330                  |
| 3330 | OsmoBSC     | Feature | New    | Normal   | osmo-bsc: Implement IMMEDIATE ASSIGNMENT EXTENDED   |          | 06/08/2018 12:14 PM | Related to #3330                  |
| 3345 | OsmoTRX     | Feature | New    | Low      | merge ms branch   |          | 06/13/2018 07:16 PM |                                   |
| 3344 | OsmoTRX     | Feature | New    | Normal   | merge ttsou/siggen  |          | 06/13/2018 07:26 PM |                                   |
| 2827 | OsmoBTS     | Feature | New    | Low      | would be nice if logging of the BTS number in osmo-bts matched the BTS number used in osmo-bsc                    |          | 06/23/2018 06:48 PM |                                   |
| 3019 | OsmoHLR     | Feature | New    | Low      | add config for number of auth tuples returned   |          | 06/23/2018 06:58 PM |                                   |
| 3125 | OsmoMSC     | Bug     | New    | Low      | testcase for fixed "osmo-msc crashes while handling a call"   | neels    | 06/23/2018 07:26 PM | Related to #3122,Related to #2880 |
| 41   | OsmoMSC     | Bug     | New    | Normal   | Numbering Plan in OsmoMSC   |          | 06/23/2018 07:37 PM |                                   |
| 2383 | OsmoPCU     | Bug     | New    | Normal   | incompatibility with some SGSNs during P-TMSI allocation  | laforge  | 07/04/2018 12:50 PM |                                   |
| 3401 | OsmocomBB   | Bug     | New    | Normal   | target/firmware/l1ctl: both chan_nr and link_id are not set for L1CTL_DATA_CONF                                   |          | 07/16/2018 11:56 PM |                                   |
| 3414 | gr-osmosdr  | Feature | New    | Normal   | Include Airspy serial number in connection string.  | horiz0n  | 07/24/2018 04:52 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 |                                   |
| 3371 | SIMtrace 2  | Feature | New    | Normal   | migrate to use arm-none-eabi build of libosmocore.git   | laforge  | 08/09/2018 12:14 PM |                                   |
| 3479 | OsmoBSC     | Feature | New    | Normal   | test "every single failure" in osmo-bsc FSMs  |          | 08/20/2018 11:15 AM | Related to #3479                  |



| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee   | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|------------|---------------------|--|
| 3469 | OsmoMSC                         | Feature | New    | Low      | Support for "service category" in emergency calls                          |            | 08/24/2018 12:48 PM | Related to #3470                                   |
| 1463 | SIMtrace 2                      | Feature | New    | Low      | Add VCC current sensing circuit for SPA & DPA attacks                      | laforge    | 08/27/2018 07:05 AM | Related to #1706                                   |
| 3501 | SIMtrace 2                      | Feature | New    | Low      | Multi-sim addon board idea   |            | 08/28/2018 03:00 PM |  |
| 3505 | OsmoBSC                         | Feature | New    | Normal   | ttcn3: test inter-BSC HO with encryption enabled                           | neels      | 08/28/2018 06:38 PM | Related to #3505                                   |
| 3470 | OsmoMSC                         | Feature | New    | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT                      |            | 09/01/2018 08:18 PM | Related to #3470                                   |
| 3521 | libosmocore                     | Feature | New    | Normal   | core/utls: engineering notation helpers                                    | fixeria    | 09/04/2018 08:32 PM |  |
| 3522 | libosmocore                     | Feature | New    | Low      | libosmocoding: move TCH ordering functions to libosmocodec and share them  | fixeria    | 09/04/2018 08:49 PM |  |
| 1911 | SIMtrace 2                      | Feature | New    | Normal   | check if we can have an enclosed version of simtrace v2                    | tsaitgaist | 09/13/2018 12:40 PM |  |
| 1457 | SIMtrace 2                      | Feature | New    | Low      | Spacing between JTAG and JP1/JP2   | mschramm   | 09/13/2018 07:07 PM |  |
| 2013 | libosmo-sccp + libosmo-sigtran  | Bug     | New    | Low      | OAP (Osmo Auth Protocol) missing from IPA support in libosmo-sigtran       | neels      | 09/16/2018 10:35 AM | Related to #1843,Related to #2013,Related to #2554 |
| 3588 | rtl-sdr                         | Bug     | New    | Normal   | Error Values Inconsistent  |            | 09/25/2018 12:47 PM |  |
| 3589 | rtl-sdr                         | Bug     | New    | Normal   | Zerocopy Buffers Unusable Outside Callback Without memcpy()                |            | 09/25/2018 12:58 PM |  |
| 3590 | rtl-sdr                         | Bug     | New    | Normal   | Key Functions Missing Documentation  |            | 09/25/2018 01:04 PM |  |
| 3591 | rtl-sdr                         | Bug     | New    | Normal   | No Way To Detect Occasional Failed Bulk Transfers                          |            | 09/25/2018 01:29 PM |  |
| 3594 | gr-osmosdr                      | Feature | New    | Normal   | Message Commands   |            | 09/25/2018 03:59 PM |  |
| 3595 | gr-osmosdr                      | Feature | New    | Normal   | RX Tags  |            | 09/25/2018 04:01 PM |  |
| 3596 | gr-osmosdr                      | Feature | New    | Normal   | TX Tags  |            | 09/25/2018 04:01 PM |  |
| 2913 | OsmocomBB                       | Feature | New    | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)                            |            | 09/29/2018 09:31 AM | Related to #3564                                   |
| 3602 | OsmoSTP                         | Feature | New    | Low      | M2UA support   |            | 09/30/2018 08:00 AM |  |
| 2451 | Cellular Network Infrastructure | Feature | New    | Low      | Add static builds to jenkins jobs  | osmith     | 09/30/2018 08:18 AM |  |
| 3006 | libosmo-netif                   | Bug     | New    | Low      | Osmux: improvements on lost/dropped RTP packets                            |            | 09/30/2018 08:34 AM |  |
| 2899 | OsmoBSC                         | Bug     | New    | Low      | channel attributes are sent to BTS even for NONE channels                  | osmith     | 09/30/2018 10:42 AM |  |
| 3110 | OsmoMSC                         | Bug     | New    | Normal   | Test and possibly fix ID Request after Auth failure                        | neels      | 09/30/2018 11:36 AM |  |
| 2669 | OsmoMSC                         | Bug     | New    | Low      | osm-msc doesn't clean up BSC state   | osmith     | 09/30/2018 11:37 AM |  |
| 2692 | OsmoSGSN                        | Bug     | New    | Low      | HLR string in CDR and VTY is empty   | pespin     | 09/30/2018 11:39 AM |  |
| 2959 | OsmoSGSN                        | Bug     | New    | Low      | OsmoSGSN puts bogus LAC/RAC in GTP Create PDP CTX ACT REQ                  | osmith     | 09/30/2018 11:41 AM |  |
| 1612 | Cellular Network Infrastructure | Bug     | New    | Low      | more configuration consistency checking                                    |            | 09/30/2018 11:48 AM |  |
| 2391 | OsmoMSC                         | Feature | New    | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details |            | 10/02/2018 03:40 PM |  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                       |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 3622 | libosmo-abis                    | Bug     | New    | Normal   | Clear API mess in sign_link_up callback  | pespin   | 10/02/2018 07:34 PM |  |
| 3609 | OsmoSTP                         | Feature | New    | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |  |
| 3607 | OsmoSTP                         | Feature | New    | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |  |
| 3606 | OsmoSTP                         | Feature | New    | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |  |
| 3603 | OsmoSTP                         | Feature | New    | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603                                     |
| 3629 | OsmocomBB                       | Bug     | New    | Normal   | mobile aborting after 'test re-selection 1' on vty   |          | 10/04/2018 02:58 PM |  |
| 2584 | Cellular Network Infrastructure | Feature | New    | Low      | Have "osmo-network-check" to verify "Network In The Box" setup   | neels    | 10/05/2018 04:20 PM | Related to #2618                                     |
| 3387 | OsmocomBB                       | Feature | New    | Low      | osmocon: Use libosmocore logging system  |          | 10/05/2018 04:21 PM |  |
| 3636 | OsmoMSC                         | Feature | New    | Normal   | detailed call statistics (with rate counters)  | osmith   | 10/08/2018 11:14 AM | Related to #3636                                     |
| 3642 | OsmoBSC                         | Bug     | New    | Low      | logging filter imsi leaks bsc_subscr references  |          | 10/09/2018 10:04 PM |  |
| 3649 | OsmoHLR                         | Feature | New    | Low      | Investigate LMDB as HLR data storage   |          | 10/12/2018 11:35 AM | Related to #3649                                     |
| 3652 | OsmocomBB                       | Bug     | New    | Normal   | Incorrect IMEISV setting in mobile application   |          | 10/12/2018 08:20 PM |  |
| 3482 | OsmoBSC                         | Feature | New    | Low      | handover decision: if a new call causes congestion that would trigger immediate re-assignment, assigning the other TCH kind from the start |          | 10/16/2018 01:15 PM | Related to #3482                                     |
| 3485 | OsmoBSC                         | Feature | New    | Low      | handover to make room for a less capable subscriber  |          | 10/16/2018 01:16 PM | Related to #3485                                     |
| 3486 | OsmoBSC                         | Feature | New    | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell                            |          | 10/16/2018 01:16 PM | Related to #3486, Related to #3638                   |
| 3638 | OsmoBSC                         | Feature | New    | Low      | handover decision 2: load balancing across BSS   |          | 10/16/2018 01:16 PM | Related to #3638, Related to #3638, Related to #3638 |
| 3484 | OsmoBSC                         | Feature | New    | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference                   |          | 10/16/2018 01:30 PM |  |
| 3483 | OsmoBSC                         | Feature | New    | Normal   | handover decision: if rxlev is ok but rxqual is bad, move from TCH/H to TCH/F  | neels    | 10/16/2018 01:53 PM | Related to #3483                                     |
| 3663 | gr-osmosdr                      | Bug     | New    | Normal   | Can't compile gr-osmosdr on macOS Mojave   |          | 10/19/2018 02:37 PM |  |
| 3653 | OsmocomBB                       | Bug     | New    | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX   |          | 10/22/2018 02:37 PM | Related to #5518                                     |
| 2378 | OsmocomBB                       | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git   |          | 10/24/2018 02:13 PM |  |
| 3687 | OsmoMSC                         | Feature | New    | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |  |
| 3724 | osmo-sip-connector              | Bug     | New    | Normal   | Wrong media format used in SIP INVITE causes one-way audio   |          | 12/11/2018 02:57 PM | Related to #3724, Related to #5177                   |
| 3734 | gr-osmosdr                      | Bug     | New    | High     | Cannot compile gr-osmocore   |          | 12/16/2018 12:22 AM |  |
| 3738 | OsmoMSC                         | Feature | New    | Normal   | Clarify PS-part of struct vlr_subscr   |          | 12/19/2018 12:34 PM |  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 3741 | osmo-sip-connector              | Bug     | New    | Normal   | Unknow call parameters shown in vty   |          | 12/28/2018 02:01 PM |                                   |
| 3747 | UmTRX                           | Feature | New    | Normal   | LMS6002D RX Gain Control  | ipse     | 01/08/2019 09:46 AM |                                   |
| 3586 | OsmoBSC                         | Feature | New    | Normal   | support LCLS for inter-BSC handover   | neels    | 01/17/2019 04:18 PM | Related to #3586,Related to #3659 |
| 3763 | osmo-sip-connector              | Bug     | New    | Normal   | Implement correct handling for call answered elsewhere  |          | 01/22/2019 01:03 PM |                                   |
| 3512 | gr-osmosdr                      | Support | New    | Normal   | Bug #3462 on Arch Linux; gr-osmosdr install fails   | horiz0n  | 01/26/2019 06:10 PM |                                   |
| 3779 | Cellular Network Infrastructure | Feature | New    | Low      | explore providing a VM image with all of osmocom CNI and related tools installed                        |          | 02/04/2019 09:52 AM |                                   |
| 3797 | rtl-sdr                         | Bug     | New    | Normal   | Exits with "Bus error"  |          | 02/12/2019 02:28 PM |                                   |
| 3802 | gr-osmosdr                      | Feature | New    | Normal   | New release   | horiz0n  | 02/15/2019 07:22 AM |                                   |
| 3814 | OsmoBSC                         | Bug     | New    | Normal   | MS Power Control Problem with Osmo-BSC and nanoBTS  |          | 02/24/2019 01:15 AM |                                   |
| 3817 | SDR (Software Defined Radio)    | Bug     | New    | Normal   | Unable to use fospor display on Ubuntu 18.10  |          | 02/26/2019 06:56 PM |                                   |
| 3819 | gr-osmosdr                      | Support | New    | Urgent   | OSMO SDR blocks for GNUradio  |          | 02/28/2019 06:00 PM |                                   |
| 3822 | OsmoMGW                         | Bug     | New    | Low      | conn mode "sendonly" behaves identically to "sendrecv"  |          | 03/04/2019 09:34 PM |                                   |
| 3829 | OsmoMSC                         | Bug     | New    | Normal   | osmo-msc expects aoip TLV in Assignement Complete messages from BSC                                     |          | 03/07/2019 08:30 PM |                                   |
| 3845 | libosmocore                     | Feature | New    | Low      | Unified logging in Gb NS / BSSGP code   |          | 03/16/2019 02:33 PM |                                   |
| 3872 | OsmoBSC                         | Feature | New    | Normal   | osmo_scu_prim.conn_id should be picked from a distinct number space for outgoing and incoming N-CONNECT | osmith   | 03/28/2019 08:06 PM | Blocks #3872                      |
| 3880 | OsmoMSC                         | Bug     | New    | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response   |          | 04/01/2019 07:47 AM |                                   |
| 3885 | osmo-remsim                     | Feature | New    | Normal   | remsim-server should expose status information  | laforge  | 04/01/2019 07:23 PM | Precedes #3885                    |
| 1479 | Mobile (in)Security             | Bug     | New    | Normal   | MTK stack unable to send MO-SMS on TCH/F  |          | 04/03/2019 09:01 AM |                                   |
| 3689 | OsmoSGSN                        | Bug     | New    | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)   |          | 04/09/2019 11:21 AM |                                   |
| 3688 | OsmoSGSN                        | Feature | New    | Low      | move generic gtpub code to libosmocore  |          | 04/15/2019 07:29 AM |                                   |
| 3940 | OsmoSGSN                        | Bug     | New    | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |                                   |
| 3939 | OsmoSGSN                        | Bug     | New    | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request                              |          | 04/24/2019 08:25 AM |                                   |
| 3923 | OsmoSGSN                        | Bug     | New    | Normal   | lu: Respond to SecurityCommandReject messages   |          | 04/24/2019 08:26 AM | Related to #3923                  |
| 3980 | OsmoMGW                         | Bug     | New    | Normal   | Clear Command before CRCX OK may leak MGW endpoint  |          | 05/06/2019 10:11 PM |                                   |
| 3755 | OsmoMSC                         | Feature | New    | Low      | make retrieval of IMEISV configurable   |          | 05/07/2019 12:28 PM | Related to #3755                  |
| 3936 | OsmoSGSN                        | Bug     | New    | Normal   | lu: first GMM Service Request does not find a MM ctx  |          | 05/07/2019 01:37 PM | Related to #3936                  |
| 3229 | Cellular Network Infrastructure | Feature | New    | Low      | build-system: jenkins.sh: Improve debian package generation test coverage during gerrit submission      |          | 05/08/2019 02:36 PM | Related to #3228                  |
| 3987 | libosmocore                     | Feature | New    | Low      | introduce libosmocore_init() to replace individual initialization calls                                 |          | 05/08/2019 03:03 PM | Related to #3987                  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee  | Updated             | Related issues                                 |
|------|---------------------------------|---------|--------|----------|---|-----------|---------------------|--|
| 3988 | OsmoMSC                         | Feature | New    | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()   |           | 05/08/2019 03:26 PM |  |
| 3886 | osmo-remsim                     | Feature | New    | Normal   | expose ICCID or even IMSI of all cards on remsim-server   | laforge   | 05/08/2019 03:31 PM | Precedes #3886                                 |
| 3884 | osmo-remsim                     | Feature | New    | Normal   | redesign bankd thread architecture  | laforge   | 05/08/2019 03:31 PM | Related to #5527,Precedes #3885,Precedes #3886 |
| 3737 | OsmoBSC                         | Bug     | New    | Low      | abort because unused lchan has non-null conn pointer, after AMR config error  |           | 05/08/2019 03:35 PM |  |
| 3841 | OsmoBSC                         | Bug     | New    | Low      | cosmetic: tearing down the old lchan after inter-BSC handover always goes through RELEASE_AFTER_ERROR (instead of normal release) | neels     | 05/08/2019 05:43 PM |  |
| 3992 | OsmoMSC                         | Bug     | New    | Normal   | inter-MSC handover for signalling-only?   |           | 05/09/2019 11:39 AM |  |
| 4014 | OsmoBTS                         | Feature | New    | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX  |           | 05/21/2019 12:07 PM |  |
| 3020 | OsmoBSC                         | Bug     | New    | Normal   | OsmoBSC PCU socket interface not yet tested by BSC_Tests.ttcn   | laforge   | 05/21/2019 06:29 PM |  |
| 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 |  |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management   |           | 05/30/2019 03:19 PM |  |
| 4065 | OsmoMSC                         | Feature | New    | Normal   | osmo-msc: Support instructing MSC_MGW to use Osmux between 2 endp/call-leg of same voice call                                     | pespin    | 06/19/2019 04:54 PM | Related to #4065                               |
| 3557 | OsmocomBB                       | Bug     | New    | Normal   | trxcon: decoding errors after applying a new TCH mode   | fixeria   | 06/21/2019 11:56 AM |  |
| 4072 | libosmo-sccp + libosmo-sigtran  | Bug     | New    | Normal   | Implement IPA PING/PONG mechanism in libosmo-sigtran +  | Hoernchen | 06/21/2019 02:51 PM | Related to #4072                               |
| 4080 | rtl-sdr                         | Support | New    | Normal   | Receiving UTAs on 978 Mhz   |           | 07/02/2019 12:08 PM |  |
| 3776 | OP25                            | Bug     | New    | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS   |           | 07/05/2019 07:12 PM |  |
| 4104 | libosmocore                     | Bug     | New    | Normal   | support for KASME generation  | laforge   | 07/12/2019 10:15 AM | Related to #4105                               |
| 4105 | libosmocore                     | Feature | New    | Normal   | Support for LTE key derivation functions  | laforge   | 07/13/2019 02:07 AM | Related to #4105                               |
| 4108 | Cellular Network Infrastructure | Bug     | New    | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs   |           | 07/16/2019 12:30 PM | Related to #4108                               |
| 3604 | OsmoSTP                         | Feature | New    | Normal   | Global Title Routing  |           | 07/18/2019 05:15 AM |  |
| 3605 | OsmoSTP                         | Feature | New    | Normal   | Global Title Translation  |           | 07/18/2019 05:15 AM |  |
| 3694 | Cellular Network Infrastructure | Bug     | New    | Low      | Fix lintian warnings in .deb packages   |           | 07/18/2019 05:20 AM | Related to #3699                               |
| 1590 | Cellular Network Infrastructure | Feature | New    | Low      | Extension of Control Interface / external SNMP agent  |           | 07/18/2019 05:22 AM |  |
| 2839 | Cellular Network Infrastructure | Bug     | New    | Low      | statistics split between 2G and 3G  |           | 07/18/2019 05:22 AM |  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                     |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|------------------------------------|
| 3167 | Cellular Network Infrastructure | Bug     | New    | Low      | Build osmo-* master docker containers with address sanitizer                          | osmith   | 07/18/2019 05:22 AM | Related to #3167                   |
| 3567 | Cellular Network Infrastructure | Bug     | New    | Low      | coverity: move the secret token out of \$HOME/osmo-ci/.../                            | lynxis   | 07/18/2019 05:22 AM |                                    |
| 2805 | FidoNet                         | Bug     | New    | Low      | Create reproducible / semi-automatic way to create FidoNet node on Linux              |          | 07/18/2019 05:34 AM |                                    |
| 3462 | gr-osmosdr                      | Bug     | New    | Normal   | gr-osmosdr installation bladerf conversion errors                                     | horiz0n  | 07/18/2019 05:35 AM |                                    |
| 3597 | gr-osmosdr                      | Feature | New    | Low      | rtl: send final samples when device is lost   | horiz0n  | 07/18/2019 05:35 AM |                                    |
| 3593 | gr-osmosdr                      | Bug     | New    | Low      | rtl: 'len' argument ignored in librtlsdr callback                                     | horiz0n  | 07/18/2019 05:35 AM |                                    |
| 3592 | gr-osmosdr                      | Bug     | New    | Normal   | rtl: Race Conditions  | horiz0n  | 07/18/2019 05:35 AM |                                    |
| 4098 | gr-osmosdr                      | Bug     | New    | Normal   | [BladeRF micro] Arguments set in osmocom Sink and Source are not passed to libbladerf | horiz0n  | 07/18/2019 05:35 AM |                                    |
| 3882 | gr-osmosdr                      | Bug     | New    | Normal   | Cannot compile gr-osmosdr!  | horiz0n  | 07/18/2019 05:35 AM |                                    |
| 2895 | OsmoMSC                         | Bug     | New    | Normal   | OsmoMSC excessively uses LU Reject Cause 22 (congestion)                              | osmith   | 07/18/2019 05:41 AM |                                    |
| 2000 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | use m3ua-testtool for the ASP-side verification                                       |          | 07/18/2019 05:42 AM |                                    |
| 2846 | OsmoMSC                         | Bug     | New    | Normal   | MSC doesn't close SCCP/BSSAP connection on CM SERV REQ tht cannot be parsed           | osmith   | 07/18/2019 05:44 AM |                                    |
| 2877 | OsmoMSC                         | Bug     | New    | Normal   | OsmoMSC fails on bearer capability without octet 3a                                   | osmith   | 07/18/2019 05:45 AM |                                    |
| 3163 | OsmoMSC                         | Bug     | New    | Low      | RANAP: reject Level 3 Complete from cells with invalid LAI                            | osmith   | 07/18/2019 05:47 AM | Related to #3162, Related to #3163 |
| 3165 | OsmoMSC                         | Feature | New    | Low      | Verify LU Request's LAI   | osmith   | 07/18/2019 05:48 AM | Related to #3164                   |
| 2974 | OsmoBTS                         | Bug     | New    | Low      | OsmoBTS doesn't use the "Diagnostics" part of the RSL Cause IE                        |          | 07/18/2019 05:48 AM |                                    |
| 3796 | OsmoBTS                         | Bug     | New    | Low      | OsmoBTS doesn't send proper cause values in NACK                                      |          | 07/18/2019 06:04 AM | Related to #3796                   |
| 3792 | OsmoBTS                         | Bug     | New    | Normal   | OsmoBTS doesn't include the "Starting Time" attribute in "Set BTS Attributes ACK"     | osmith   | 07/18/2019 06:05 AM |                                    |
| 1568 | OsmoBTS                         | Feature | New    | Low      | Move various code bits to libosmocore   | fixeria  | 07/18/2019 06:08 AM |                                    |
| 1674 | OsmoBTS                         | Bug     | New    | Low      | Kill duplication between l1_if.c and sysmbots_ctrl.c                                  |          | 07/18/2019 06:08 AM |                                    |
| 1744 | OsmoBTS                         | Bug     | New    | Low      | 1-way voice between sysmbots and nanobts if DTX is enabled                            |          | 07/18/2019 06:08 AM | Related to #1562                   |
| 1926 | OsmoBTS                         | Feature | New    | Low      | unify *_mgr code  |          | 07/18/2019 06:08 AM |                                    |
| 2674 | OsmoBTS                         | Bug     | New    | Low      | osmo-bts-sysmo GPRS failing if running without "-M"                                   | pespin   | 07/18/2019 06:08 AM |                                    |
| 1458 | OsmocomBB                       | Bug     | New    | High     | AGC broken (strong cell cannot be synced)   | tnt      | 07/18/2019 06:10 AM | Related to #3582                   |
| 3732 | OsmoHLR                         | Feature | New    | Low      | Support tacdb query in HLR  |          | 07/18/2019 06:12 AM | Related to #3732                   |
| 1603 | OsmoMSC                         | Feature | New    | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP                     |          | 07/18/2019 06:13 AM |                                    |
| 1973 | OsmoMSC                         | Feature | New    | Low      | VLR: efficient subscriber lookup  |          | 07/18/2019 06:15 AM | Related to #1973                   |

| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 4128 | OsmoHNBGW                             | Feature | New    | Low      | Add support of Huawei hNodeB protocol  |          | 07/24/2019 03:39 PM |                                   |
| 4130 | OP25                                  | Bug     | New    | Normal   | OP25 User Interface  |          | 07/26/2019 02:36 AM |                                   |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Normal   | how to use network inside ec20   |          | 07/31/2019 11:20 AM |                                   |
| 25   | OsmoMSC                               | Feature | New    | Low      | Call HOLD / RETRIEVE support for internal MNCC   |          | 08/01/2019 03:06 PM |                                   |
| 4141 | Cellular Network Infrastructure       | Bug     | New    | Normal   | No osmux specific code in place during codec negotiation   |          | 08/05/2019 03:57 PM |                                   |
| 4150 | OsmoMGW                               | Feature | New    | Low      | dead code / If an MDCX omits SDP, all codec config might be cleared  |          | 08/13/2019 11:01 PM |                                   |
| 4161 | OsmoGGSN (former OpenGGSN)            | Bug     | New    | Normal   | Implement pdp idle timer   | pespin   | 08/20/2019 06:30 PM | Related to #4161                  |
| 4163 | OsmoHLR                               | Bug     | New    | Normal   | Subscriber on demand: "Error while deleting subscriber data for IMSI" after changing network access mode from cs+ps back to none | osmith   | 08/22/2019 01:41 PM |                                   |
| 4174 | osmo-fl2k                             | Bug     | New    | Normal   | After the latest commits, the fl2k tools do not exit on first SIGINT   |          | 08/25/2019 04:57 PM |                                   |
| 3962 | OsmoTRX                               | Feature | New    | Low      | osmo-trx: Use gcc attribute no_sanitize to run fine with ASan enabled  |          | 08/26/2019 02:04 PM |                                   |
| 4172 | OsmoGGSN (former OpenGGSN)            | Bug     | New    | Normal   | osmoggsn crashes when stopping   |          | 08/29/2019 11:35 AM |                                   |
| 1478 | Mobile (in)Security                   | Bug     | New    | High     | IMSI DETACH DoS  |          | 09/02/2019 09:00 AM |                                   |
| 3670 | Cellular Network Infrastructure       | Feature | New    | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |                                   |
| 4031 | OsmoBTS                               | Bug     | New    | Normal   | OML part of BTS has no TTCN-3 tests  |          | 09/04/2019 09:04 AM | Related to #4031,Related to #4031 |
| 4189 | OsmoBSC                               | Feature | New    | Low      | TTCN-3 tests for load-based hand-over in BSC   |          | 09/04/2019 09:10 AM | Related to #4189                  |
| 2677 | libosmocore                           | Support | New    | Normal   | Make stat_item available over ctrl interface   |          | 09/04/2019 09:21 AM | Related to #2676                  |
| 2943 | OsmoMSC                               | Bug     | New    | Normal   | Errors in MGCP do not propagate back to MNCC gsm_subscriber_conn state machine   |          | 09/04/2019 09:21 AM |                                   |
| 2355 | OsmoBTS                               | Bug     | New    | Low      | optimize log output of phy specific code   |          | 09/04/2019 09:26 AM | Related to #2355                  |
| 2580 | OsmoMGW                               | Feature | New    | Low      | implement timeout/resend mechanism for mgcp_client   |          | 09/04/2019 09:26 AM |                                   |
| 3442 | OsmoMGW                               | Bug     | New    | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c  |          | 09/04/2019 09:26 AM |                                   |
| 3849 | OsmoMGW                               | Bug     | New    | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite  |          | 09/04/2019 09:26 AM |                                   |
| 1667 | OsmoNITB                              | Feature | New    | Normal   | Handle callref better  |          | 09/04/2019 09:31 AM | Related to #3294                  |
| 2955 | OsmoSGSN                              | Bug     | New    | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error  | lynxis   | 09/10/2019 07:39 PM |                                   |
| 3977 | OsmoCBC                               | Feature | New    | High     | SABP stream delineation routines   | laforge  | 09/23/2019 04:49 AM | Related to #3979,Related to #4944 |
| 4196 | OsmoMSC                               | Feature | New    | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE   |          | 09/25/2019 05:27 PM |                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 3964 | OsmoSGSN                        | Bug     | New    | Normal   | SIGSEGV in sndcp_sm_deactivate_ind()   |          | 10/10/2019 07:11 PM | Related to #3964,Related to #4221,Related to #4602 |
| 4225 | OP25                            | Support | New    | Normal   | Missing rules in cmake lists?  | 2CS350   | 10/12/2019 02:49 PM |  |
| 4242 | BBS-Revival                     | Feature | New    | Low      | offer CCC event schedule (Fahrplan) as gopher service  |          | 10/28/2019 09:22 AM |  |
| 4265 | libosmocore                     | Bug     | New    | Normal   | --enable-embedded doesn't work as expected   |          | 11/12/2019 11:18 AM |  |
| 4082 | OsmoBTS                         | Bug     | New    | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE  |          | 11/18/2019 10:09 AM |  |
| 2946 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Low      | Add test suite for sgsnemu   | pespin   | 11/21/2019 05:03 PM |  |
| 4277 | Cellular Network Infrastructure | Feature | New    | Low      | implement an SMSC to work with OsmoMSC   |          | 11/22/2019 02:45 PM |  |
| 4109 | Cellular Network Infrastructure | Feature | New    | Low      | debian-repo-install-test: start a virtual MS and perform a LU                                    | osmith   | 11/29/2019 10:39 AM | Related to #4109                                   |
| 3658 | Cellular Modem Information      | Feature | New    | Low      | Create a "osmocom-bb-host-latest" docker container   |          | 12/01/2019 09:07 AM | Related to #3658                                   |
| 3192 | Cellular Network Infrastructure | Bug     | New    | Low      | meas_vis: use the lchan identity as primary key, not the IMSI                                    | laforge  | 12/01/2019 09:20 AM | Related to #3192,Related to #3192                  |
| 3227 | Cellular Network Infrastructure | Feature | New    | Normal   | general idea: separate GSUP spec document  | roh      | 12/01/2019 09:26 AM | Is duplicate of #3227                              |
| 3382 | Cellular Network Infrastructure | Bug     | New    | Low      | Investigate and fix lintian issues listed by Debian Lintian Report                               | osmith   | 12/01/2019 09:27 AM |  |
| 3417 | Cellular Network Infrastructure | Bug     | New    | Normal   | show asciidoc counters does not show all the counters available                                  | osmith   | 12/01/2019 09:28 AM | Related to #3417,Related to #4848                  |
| 3477 | Cellular Network Infrastructure | Feature | New    | Low      | add a wiki page explaining interconnection between components across several machines            | osmith   | 12/01/2019 09:29 AM |  |
| 3644 | OsmoHLR                         | Feature | New    | Normal   | allow arbitrary bytes in Global Title (GT), a.k.a. the VLR,SGSN's identification towards the HLR | neels    | 12/01/2019 10:02 AM | Related to #3644,Related to #3644                  |
| 3398 | GSM Audio Pocket Knife          | Bug     | New    | Low      | build: configure fails if (optional) libalsa wasn't found  | fixeria  | 12/01/2019 10:08 AM |  |
| 2439 | libosmo-netif                   | Bug     | New    | Normal   | Osmux: overwrite duplicated RTP packets instead of dropping them                                 |          | 12/01/2019 10:11 AM | Blocks #2439                                       |
| 2440 | libosmo-netif                   | Bug     | New    | Normal   | Osmux: Improve lost packet recreation mechanism  |          | 12/01/2019 10:11 AM | Blocks #2439                                       |
| 3751 | OsmoBTS                         | Support | New    | Normal   | Ensure BTS Tests.ttcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx}    |          | 12/01/2019 10:52 AM |  |
| 4275 | OsmoSTP                         | Feature | New    | Low      | Add TTCN3 STP_Tests_IPA.TC_tmt_broadcast   | pespin   | 12/01/2019 11:04 AM |  |
| 1987 | libosmocore                     | Feature | New    | Normal   | gcov code coverage test support  |          | 12/01/2019 01:42 PM | Related to #1987,Is duplicate of #1987             |

| #    | Project                | Tracker | Status | Priority | Subject   | Assignee   | Updated             | Related issues  |
|------|------------------------|---------|--------|----------|---|------------|---------------------|---|
| 2861 | OsmoGSMTester          | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sysmocell-5k  |            | 12/02/2019 01:36 PM | Related to #2860  |
| 3061 | OsmoTRX                | Bug     | New    | Normal   | OsmoTRX ARM chroot build jobs failing due to proot bug  | pespin     | 12/02/2019 04:54 PM | Related to #3766,Related to #4301                                   |
| 3887 | osmo-remsim            | Feature | New    | Low      | remsim-client: allow for local handling of APDUs  | laforge    | 12/03/2019 12:20 AM |   |
| 4303 | OsmoHLR                | Bug     | New    | Low      | various minor issues about evaluation of rc = db_subscr_get_by_*  |            | 12/03/2019 11:02 PM |   |
| 4304 | libosmocore            | Bug     | New    | Low      | missing unit tests for many gsm48_{encode,decode} functions   |            | 12/04/2019 01:50 PM |   |
| 4308 | Distributed GSM        | Support | New    | High     | thoughts about incorporating credit / billing in D-GSM  |            | 12/04/2019 04:08 PM |   |
| 4041 | SIMtrace 2             | Bug     | New    | Normal   | implement SIMTRACE_CMD_BD_BOARD_INFO  | laforge    | 12/06/2019 01:38 PM | Related to #4041  |
| 1460 | SIMtrace 2             | Feature | New    | Normal   | include some version information / negotiation in the USB protocol  | laforge    | 12/06/2019 01:39 PM | Related to #1461,Related to #4041                                   |
| 3847 | Miscellaneous Projects | Feature | New    | Normal   | Osmocom logo with/for black background  | tsaitgaist | 12/10/2019 11:53 AM |   |
| 4317 | osmo-pcap              | Bug     | New    | Low      | external tests not enabled in jenkins.sh  |            | 12/10/2019 02:42 PM |   |
| 4325 | gr-osmosdr             | Bug     | New    | Normal   | can't open hackrf_sink with device index  |            | 12/13/2019 09:18 AM |   |
| 2964 | OsmoBSC                | Bug     | New    | Low      | handover_decision_2: measurement report number compared to lchan->meas_rep_last_seen_nr often overflows to zero (255 range) and hence an old report may be seen as new every once per 255 cycle | neels      | 12/16/2019 03:02 PM | Related to #1606  |
| 2799 | linmodem               | Feature | New    | Normal   | SIP client support  |            | 01/01/2020 08:05 PM |   |
| 4336 | OsmoMSC                | Feature | New    | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())  |            | 01/02/2020 05:32 PM | Related to #4337  |
| 2698 | OsmoMSC                | Bug     | New    | Low      | Add more tests to jenkins job testing osmo-msc against NG40tester   |            | 01/08/2020 10:17 PM | Related to #2477  |
| 3731 | OsmoMGW                | Bug     | New    | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |            | 01/08/2020 10:18 PM |   |
| 2918 | OsmoBSC                | Feature | New    | Low      | Implement a function to properly test connection clearing in MSC_ConnectionHandler.tcn (BSC-Tests)  |            | 01/08/2020 10:21 PM |   |
| 4053 | libosmocore            | Feature | New    | Low      | CTRL: Add CTRL cmd introspection to print documentation   |            | 01/08/2020 10:21 PM | Related to #4053,Related to #4443                                   |
| 2712 | libosmocore            | Feature | New    | Low      | implement reproducible talloc context printout, i.e. without memory addresses   |            | 01/08/2020 10:21 PM | Related to #2781  |
| 3787 | OsmoBSC                | Bug     | New    | Low      | Assignment Request modifies conn->codec_list before the Assignment is successful  |            | 01/08/2020 10:25 PM | Related to #3833  |
| 3786 | OsmoBSC                | Bug     | New    | Low      | Assignment Request modifies conn->lcls state before the Assignment is successful  |            | 01/08/2020 10:25 PM |   |
| 3782 | OsmoBTS                | Bug     | New    | Low      | OML bringup fails for osmo-bts-oc2g on high latency links   |            | 01/08/2020 10:27 PM | Related to #3782,Related to #3782,Related to #3789,Related to #4031 |
| 1560 | OsmoPCU                | Feature | New    | High     | EDGE benchmarking / performance optimization / tuning   |            | 01/08/2020 10:31 PM |   |



| #    | Project            | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|--------------------|---------|--------|----------|---|----------|---------------------|--|
| 1925 | OsmoPCU            | Bug     | New    | High     | Fix padding for MCS8 transition   |          | 01/08/2020 10:31 PM |  |
| 2713 | OsmoGSMTester      | Bug     | New    | Normal   | ofono: chosen pdp type (v4, v6, dual) not strictly followed in ofono qmi      |          | 01/08/2020 10:40 PM | Related to #2713                                   |
| 2941 | OsmoGSMTester      | Bug     | New    | Normal   | ofono: SierraW sometimes crashing while deactivating a context.               |          | 01/08/2020 10:40 PM |  |
| 2621 | OsmoGSMTester      | Bug     | New    | Normal   | Gobi2000: might stopped working because all CID got assigned                  |          | 01/08/2020 10:40 PM |  |
| 3046 | OsmoGSMTester      | Bug     | New    | Normal   | ofono: SierraW modem fails to power on  |          | 01/08/2020 10:41 PM |  |
| 3564 | OsmoGSMTester      | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support                           |          | 01/08/2020 10:42 PM | Related to #3564                                   |
| 1543 | OsmoPCU            | Feature | New    | Normal   | link/rate adaption as per spec  |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                  |
| 2603 | OsmoPCU            | Bug     | New    | Low      | Review the various incomplete and never merged changes in radisys branch      |          | 01/08/2020 10:44 PM | Related to #1775                                   |
| 3284 | OsmoPCU            | Bug     | New    | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode   |          | 01/08/2020 10:45 PM | Related to #2400,Related to #3284                  |
| 1818 | OsmoSGSN           | Bug     | New    | Normal   | luPS: CN should lu Release in certain situations                              |          | 01/08/2020 10:47 PM | Related to #1818,Related to #3302,Related to #3908 |
| 2953 | OsmoSGSN           | Bug     | New    | Normal   | No timeout waiting for UpdateLocation Response on GSUP                        |          | 01/08/2020 10:47 PM | Related to #2952                                   |
| 2957 | OsmoSGSN           | Bug     | New    | Normal   | No timeout during GSUP PURGE MS to HLR  |          | 01/08/2020 10:47 PM |  |
| 2962 | OsmoSGSN           | Bug     | New    | Normal   | Missing TTCN-3 test cases   |          | 01/08/2020 10:47 PM |  |
| 3696 | OsmoSGSN           | Bug     | New    | Normal   | Intermittent Connection Drop  |          | 01/08/2020 10:48 PM |  |
| 2960 | OsmoSGSN           | Bug     | New    | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP |          | 01/08/2020 10:48 PM |  |
| 3224 | OsmoSGSN           | Bug     | New    | Normal   | verify ciphering after UMTS AKA   |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224                  |
| 2236 | OsmoGSMTester      | Bug     | New    | Low      | ofono: Fix valgrind issues  |          | 01/08/2020 10:51 PM |  |
| 2468 | OsmoGSMTester      | Feature | New    | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface       |          | 01/08/2020 10:51 PM |  |
| 2432 | OsmoGSMTester      | Feature | New    | Low      | ofono: Find out how to receive Status / Delivery report                       |          | 01/08/2020 10:51 PM |  |
| 1687 | osmo-sip-connector | Feature | New    | Low      | osmo-sip-connector: Explore 3-way conference call                             |          | 01/08/2020 10:56 PM |  |
| 1902 | OsmoBTS            | Feature | New    | Low      | unify/refactor dynamic timeslot code  |          | 01/08/2020 10:56 PM | Related to #1902,Related to #3099                  |
| 1812 | OsmoNITB           | Feature | New    | Normal   | Report gsm0408_dispatch() failures to MS / UE                                 |          | 01/08/2020 10:56 PM |  |
| 2305 | OsmoSGSN           | Bug     | New    | Normal   | review 'laforge/santos' branch and check if there are pending fixes           |          | 01/08/2020 10:56 PM |  |

| #    | Project                         | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|--------|----------|---|----------|---------------------|--|
| 2436 | OsmoHNBGW                       | Feature | New    | Low      | Test cases for asn1c APER encoding  |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 2884 | OsmoMSC                         | Bug     | New    | Low      | Call Control timers are very long and not configurable  |          | 01/08/2020 10:56 PM |  |
| 2437 | OsmoHNBGW                       | Bug     | New    | Low      | synchronize different asn1c APER forks  |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 3169 | OsmoMSC                         | Bug     | New    | Low      | OsmoMSC rejects SMPP messages with empty SMS  |          | 01/08/2020 10:56 PM |  |
| 3970 | OsmoTRX                         | Bug     | New    | Low      | libusrp fails to compile 1/4 of times in jenkins with PARALLEL_MAKE set   |          | 01/08/2020 10:56 PM | Is duplicate of #3970                              |
| 3931 | OsmoGSMTester                   | Support | New    | Normal   | Contact quectel to get info about modem updates (hopefully less crashes)  |          | 01/08/2020 10:56 PM | Related to #3931                                   |
| 4124 | OsmoBSCNAT                      | Feature | New    | Normal   | OsmoBSCNAT : Write user manual  |          | 01/08/2020 10:56 PM | Related to #4124                                   |
| 4310 | osmo-sip-connector              | Bug     | New    | Normal   | sends BYE to self   |          | 01/09/2020 09:21 AM |  |
| 4352 | osmo-sip-connector              | Bug     | New    | Normal   | Need to handle 401 Unauthorized   |          | 01/09/2020 02:03 PM |  |
| 4356 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | execute sccp_demo_user server+client against each other in some test suite  | pespin   | 01/10/2020 12:23 PM | Related to #4356                                   |
| 4359 | gr-osmosdr                      | Bug     | New    | Normal   | Compiling from Git Bramcj gr3.8 fails   |          | 01/12/2020 05:08 PM |  |
| 4366 | OsmoTRX                         | Bug     | New    | Normal   | Create testsuite to test osmo-bts-trx+osmo-trx under high channel load (w/ RACH correlation)                        | pespin   | 01/15/2020 01:59 PM | Related to #4366                                   |
| 4367 | rtl-sdr                         | Support | New    | Normal   | "Communications Toolbox Support Package for RTL-SDR Radio" from "Mathworks Matlab" appears to be with broken links? | steve-m  | 01/21/2020 08:52 PM |  |
| 1555 | OsmoPCU                         | Feature | New    | Low      | Add support for unacknowledged RLC Mode   |          | 01/22/2020 02:59 PM |  |
| 4374 | OsmoMSC                         | Feature | New    | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach  |          | 01/23/2020 03:19 AM |  |
| 4376 | Cellular Network Infrastructure | Feature | New    | Normal   | Define distinct X timer numbers across all osmo programs  |          | 01/23/2020 09:21 PM |  |
| 1530 | OsmoPCU                         | Feature | New    | Low      | Assign same TFI number in downlink/uplink   |          | 01/26/2020 08:50 AM |  |
| 4415 | OsmoGGSN (former OpenGGSN)      | Feature | New    | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP   |          | 02/25/2020 03:05 PM |  |
| 3666 | OsmocomBB                       | Feature | New    | Normal   | trxcon: Introduce VTY interface   | fixeria  | 02/26/2020 02:43 PM | Related to #3667                                   |
| 4418 | OsmocomBB                       | Feature | New    | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)   |          | 02/26/2020 11:41 PM |  |
| 2379 | OsmocomBB                       | Feature | New    | Normal   | package as .deb   |          | 02/27/2020 02:39 PM |  |
| 4427 | rtl-sdr                         | Bug     | New    | Normal   | docker + rtl_sdr issue  |          | 02/29/2020 01:16 PM |  |
| 4432 | OsmoMGW                         | Bug     | New    | Normal   | for 'domain *', mgw should echo the domain of the MGCP client   |          | 03/04/2020 12:39 AM |  |

| #    | Project                        | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 4433 | OsmoGGSN (former OpenGGSN)     | Feature | New    | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |                                   |
| 4440 | OsmoBTS                        | Bug     | New    | Normal   | osmo_bts_virtual doesn't detect if mobile/virtphy is gone                                    | laforge  | 03/07/2020 03:44 PM |                                   |
| 4443 | libosmocore                    | Bug     | New    | Normal   | CTRL interface blocks wildcard in rate_ctr   |          | 03/08/2020 01:06 PM | Related to #4443,Related to #4443 |
| 4447 | OsmoMGW                        | Bug     | New    | Normal   | DSCP value should be a 6 bit field   | osmith   | 03/09/2020 04:50 PM | Related to #4447                  |
| 4451 | OsmoMSC                        | Bug     | New    | Normal   | vty 'show stats level': different stats levels yield identical results                       |          | 03/09/2020 10:10 PM |                                   |
| 3443 | OsmoMGW                        | Bug     | New    | Low      | Check audio-payload options in osmo-mgw VTY  |          | 03/15/2020 08:43 AM |                                   |
| 4457 | libosmo-sccp + libosmo-sigtran | Bug     | New    | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application |          | 03/17/2020 11:17 PM |                                   |
| 4458 | Core testing infrastructure    | Feature | New    | Low      | Set up a STF (Smartphone Testing Farm)   |          | 03/18/2020 02:44 PM |                                   |
| 2356 | OsmoBTS                        | Feature | New    | Low      | have per-SAPI logging in OsmoBTS DL1P / DL1C   | osmith   | 03/19/2020 08:06 PM | Related to #2355                  |
| 1903 | OsmoPCU                        | Feature | New    | Low      | convert c++ -> c   |          | 03/23/2020 10:48 PM |                                   |
| 4455 | OP25                           | Feature | New    | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |                                   |
| 4471 | OsmocomBB                      | Support | New    | Normal   | Received FTMTOOL from phone, ramloader has aborted   |          | 03/29/2020 11:18 AM |                                   |
| 4473 | OsmoBTS                        | Feature | New    | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473                  |
| 2612 | OsmoGSMTester                  | Feature | New    | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted                     |          | 04/06/2020 11:25 AM |                                   |
| 2504 | OsmoGSMTester                  | Support | New    | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester               |          | 04/06/2020 11:28 AM |                                   |
| 3917 | OsmoGSMTester                  | Bug     | New    | Normal   | ofono: update debian packages to match our dependencies                                      |          | 04/06/2020 11:30 AM |                                   |
| 2200 | OsmoGSMTester                  | Feature | New    | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case                            |          | 04/06/2020 04:57 PM | Related to #2201                  |
| 4484 | gr-osmosdr                     | Bug     | New    | Normal   | CMakeFiles.txt   |          | 04/06/2020 05:19 PM |                                   |
| 4491 | OsmoHLR                        | Bug     | New    | Low      | Cancel in old VLR/SGSN, if new VLR/SGSN differs from old                                     |          | 04/15/2020 12:29 PM |                                   |
| 4489 | IMSI Pseudonymization          | Feature | New    | Normal   | Specification: mark mandatory parts / implementation details as such                         |          | 04/16/2020 08:44 AM |                                   |
| 4490 | IMSI Pseudonymization          | Feature | New    | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?          |          | 04/16/2020 08:44 AM |                                   |
| 4478 | IMSI Pseudonymization          | Feature | New    | Normal   | Applet: proper warning after too many LU with same IMSI                                      |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4417 | IMSI Pseudonymization          | Bug     | New    | Normal   | Applet: LU counter should only increase on successful location update                        |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4479 | IMSI Pseudonymization          | Feature | New    | Normal   | Applet: change IMSI after receiving SMS  |          | 04/16/2020 08:45 AM |                                   |
| 4480 | IMSI Pseudonymization          | Bug     | New    | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS                        |          | 04/16/2020 08:45 AM | Related to #4480                  |
| 4481 | IMSI Pseudonymization          | Feature | New    | Low      | Applet: test various REFRESH qualifiers to possibly shorten the time for changing the IMSI   |          | 04/16/2020 08:45 AM |                                   |
| 4486 | IMSI Pseudonymization          | Feature | New    | Normal   | Applet: gracefully handle case where timer is set twice                                      |          | 04/16/2020 08:45 AM |                                   |

| #    | Project                    | Tracker | Status | Priority | Subject  | Assignee  | Updated             | Related issues            |
|------|----------------------------|---------|--------|----------|--|-----------|---------------------|---------------------------|
| 4477 | IMSI Pseudonymization      | Feature | New    | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |           | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477 |
| 4496 | osmo-uecups                | Feature | New    | Low      | implement filters for sharing as single tun device between multiple bearers                        | laforge   | 04/17/2020 08:31 AM |                           |
| 4498 | osmo-uecups                | Feature | New    | Normal   | IPv6 neighbor discovery  | laforge   | 04/17/2020 08:33 AM |                           |
| 4513 | rtl-sdr                    | Bug     | New    | Normal   | PKG information broken   |           | 04/26/2020 03:21 PM |                           |
| 4363 | Distributed GSM            | Feature | New    | Low      | mslookup_client_mdns_test: add stubs, so it works without multicast                                |           | 04/28/2020 02:55 PM | Related to #4363          |
| 4525 | Cellular Modem Information | Feature | New    | Normal   | MTK  |           | 05/03/2020 03:57 PM | Is duplicate of #4525     |
| 4538 | OsmoBSC                    | Bug     | New    | Normal   | timeslot_fsm.c: make the PDCH act/deact timeout configurable                                       |           | 05/09/2020 08:20 PM | Related to #4539          |
| 3815 | SIMtrace 2                 | Bug     | New    | Normal   | simtrace2 fails USB-IF CH9 test  | Hoernchen | 05/12/2020 07:24 PM |                           |
| 4551 | OsmoMGW                    | Feature | New    | Normal   | Dynamic/runtime allocation of new endpoints  |           | 05/14/2020 10:56 PM |                           |
| 4552 | OsmoMGW                    | Bug     | New    | Normal   | ip-probing issue with BTS connection - no rebinding to a correct IP address                        |           | 05/14/2020 11:18 PM |                           |
| 4553 | OsmoBSC                    | Bug     | New    | Normal   | OsmoBSC doesn't handle RESET IP RESOURCE BSSMAP message  |           | 05/16/2020 07:44 PM |                           |
| 4554 | OsmoMGW                    | Bug     | New    | Normal   | Clean up stale endpoints after OsmoBSC crash   |           | 05/16/2020 08:52 PM |                           |
| 4557 | OsmoMSC                    | Bug     | New    | Normal   | normal BSSMAP Clear Command from MSC contains cause == 0 meaning "Radio interface message failure" |           | 05/20/2020 07:17 PM |                           |
| 4560 | OsmoBSC                    | Bug     | New    | Normal   | inter-BSC HO: target cell fails when there is no TCH, only dynamic TCH/F_PDCH timeslots            | neels     | 05/20/2020 09:00 PM |                           |
| 4493 | IMSI Pseudonymization      | Feature | New    | Normal   | Specification: Cover 2G, 3G and 4G separately  | neels     | 05/27/2020 01:11 PM |                           |
| 4494 | IMSI Pseudonymization      | Feature | New    | Normal   | Specification: Add bibliography  | neels     | 05/27/2020 01:11 PM |                           |

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