

## 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 |                                   |
| 1505 | UmTRX                        | Bug     | New    | High     | OHM4 footprint incorrect   |          | 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 |                                   |
| 1515 | UmTRX                        | Feature | New    | Normal   | Heat dissipation and mounting issue  |          | 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 |                                   |
| 1517 | UmTRX                        | Feature | New    | Normal   | U_FL (UMC) connectors are not reliable after few connections                       |          | 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 |                                   |
| 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 |                                   |
| 1480 | Mobile (in)Security          | Bug     | New    | High     | A5/3 is not deployed in GSM networks   |          | 02/21/2016 04:34 PM |                                   |
| 1481 | Mobile (in)Security          | Bug     | New    | High     | Random LAPDm MAC-block padding is not deployed yet                                 |          | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1483 | Mobile (in)Security          | Bug     | New    | High     | USSD state is not reset when switching cells                                       |          | 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 |                                   |
| 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 |                                   |
| 1509 | UmTRX                        | Feature | New    | Normal   | Store calibration values in EEPROM   | 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 |                                 |
| 70   | OsmoNITB                              | Bug     | New    | Low      | nitb crashes in the rtp_proxy when a phone on a MT-call sends a 'CONNECT' before the CRCX ACK came back |          | 05/09/2016 07:37 PM |                                 |
| 72   | OsmoNITB                              | Bug     | New    | Low      | struct gsm_call can leak..  |          | 05/09/2016 07:37 PM |                                 |
| 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 Fosphor Benchmark Performance   |          | 05/04/2017 01:23 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 |                  |
| 2225 | OsmoGSMTester  | Feature | New    | Low      | tester nitb: connect ctrl interface only once   |          | 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 |                                   |
| 1990 | OsmocomBB  | Bug     | Feedback    | Normal   | bb nand flash   | yangkokk | 07/10/2017 10:22 PM |                                   |
| 1954 | OsmocomBB  | Bug     | In Progress | Normal   | Motorola C188 with Osmocombb firmwre(RAM version) can't scan out any base stations    |          | 07/10/2017 10:24 PM |                                   |
| 2364 | OsmoBTS  | Bug     | New         | Low      | OsmoBTS sends SI1 even if it is not specified/needed                                  |          | 07/15/2017 10:06 AM |                                   |
| 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 |                                   |
| 1533 | OsmoPCU  | Feature | Feedback    | Low      | Separate the window handling from the TBF more clearly                                | zecke    | 07/21/2017 02:46 PM | Related to #1533                  |
| 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 |                                   |

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|------|---------------------------------|---------|----------|----------|---|----------|---------------------|---|
| 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 |   |
| 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                        |
| 1838 | OsmoPCU                         | Bug     | Stalled  | Normal   | Nokia E52 does not reply to PUAN message properly                                     |          | 10/29/2017 06:47 PM |   |
| 2615 | OsmoGSMTester                   | Bug     | New      | Normal   | Add API to check GPS lock in BTS  |          | 11/03/2017 05:00 PM |   |
| 1898 | OsmoBTS                         | Bug     | Feedback | Low      | Wrong handover detection with l1sap on wrong ss=0/ts=0                                |          | 11/07/2017 09:54 PM |   |
| 2651 | OsmoMGW                         | Feature | New      | Low      | Support MGCP Piggybacking   |          | 11/18/2017 05:44 PM |   |
| 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                        |
| 2197 | OsmoGSMTester                   | Feature | Stalled  | Normal   | osmo-gsm-tester: use MNCC interface   |          | 11/30/2017 10:41 AM | Related to #2194, is duplicate of #2197 |
| 2697 | osmo-qcdiag                     | Feature | New      | Normal   | Create and add debian packages for osmo-qcdiag to 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      | programmatically access to new asynchronous external HLR                              |          | 12/10/2017 08:06 PM | Related to #1643, Blocks #1643          |

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| 1659 | OsmoBSC                      | Feature | New    | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time |          | 12/10/2017 08:06 PM |                                   |
| 1857 | OsmoBSC                      | Feature | New    | Normal   | aggregate and report OML ALERT messages received from BTSs                                |          | 12/10/2017 08:16 PM | Related to #1615,Related to #1605 |
| 34   | OsmoBSC                      | Bug     | New    | Normal   | ipaccess init code needs proper state machines  |          | 12/10/2017 08:16 PM | Related to #34                    |
| 2230 | OsmoGSMTester                | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230                  |
| 2764 | SDR (Software Defined Radio) | Support | New    | Normal   | osmocom_fft & siggen can't access the X display   |          | 12/15/2017 06:09 PM |                                   |
| 2390 | OsmoMSC                      | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages   |          | 12/23/2017 05:48 PM |                                   |
| 2191 | OsmoMSC                      | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 PM |                                   |
| 2798 | linmodem                     | Feature | New    | Normal   | ALSA Soundcard Support  |          | 01/01/2018 12:02 PM |                                   |
| 2800 | linmodem                     | Feature | New    | Normal   | Interop testing with real modems  |          | 01/01/2018 12:16 PM |                                   |
| 2801 | linmodem                     | Feature | New    | Normal   | V.90 completion   |          | 01/01/2018 12:18 PM |                                   |
| 2802 | linmodem                     | Feature | New    | Low      | report the connected speed in "CONNECT" message   |          | 01/01/2018 12:18 PM |                                   |
| 2803 | linmodem                     | Bug     | New    | Low      | return ERROR for unsupported AT commands  |          | 01/01/2018 12:19 PM |                                   |
| 2804 | linmodem                     | Feature | New    | Low      | DAHDI interface   |          | 01/01/2018 12:27 PM |                                   |
| 2806 | UUCP and UseNet              | Feature | New    | Low      | Create Dockerfile and/or ansible playbook for UseNet node                                 |          | 01/01/2018 01:04 PM |                                   |
| 2808 | Z-Netz                       | Bug     | New    | Normal   | Create + Document VM/emulation setup for running ZERBERUS                                 |          | 01/01/2018 01:09 PM |                                   |
| 2809 | Z-Netz                       | Bug     | New    | Normal   | Build ZConnect <-> UseNet gateway   |          | 01/01/2018 01:33 PM |                                   |
| 2813 | Z-Netz                       | Feature | New    | Normal   | Create + Document OpenXP setup on Linux   |          | 01/01/2018 01:41 PM |                                   |
| 2814 | Z-Netz                       | Feature | New    | Normal   | Create + Document classic CrossPoint setup on DOS (dosemu)                                |          | 01/01/2018 01:41 PM |                                   |
| 2815 | linmodem                     | Feature | New    | Normal   | modern ptmx / pty handling (UNIX 98)  |          | 01/01/2018 02:48 PM |                                   |
| 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 |                                   |

| #    | Project                | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|------------------------|---------|---------|----------|---|----------|---------------------|--|
| 2995 | OsmocomBB              | Bug     | New     | Normal   | Wrong parsing of PAGING TYPE 3  |          | 02/24/2018 11:03 PM | Related to #2994   |
| 3000 | OsmoBSC                | Bug     | New     | Normal   | OsmoBSC issues "RSL Connect" command too early -> race conditions                       |          | 02/25/2018 12:32 PM | Related to #2470,Related to #4179  |
| 57   | OsmoBTS                | Bug     | New     | Low      | sysmobts L1 is not properly closed, DSP firmware reload is required                     |          | 03/01/2018 11:16 PM | Related to #57   |
| 1537 | OsmoPCU                | Feature | New     | Low      | Move the BSSGP handling to libosmocore  |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388  |
| 1771 | OsmoBTS                | Feature | New     | Low      | osmo-bts-trx: clarify check_transceiver_availability()                                  |          | 03/01/2018 11:17 PM | Related to #1770   |
| 1794 | OsmoSGSN               | Bug     | Stalled | Normal   | support random IV for GEA (via XID)   |          | 03/01/2018 11:17 PM | Related to #1910,Related to #1672,Related to #2843,Blocks #1794,Blocks #1582 |
| 1837 | OsmoBTS                | Feature | New     | Low      | autogenerate dtx_dl_amr_fsm.*   |          | 03/01/2018 11:17 PM |  |
| 3033 | OsmoTRX                | Feature | New     | Low      | Split wiki page into multiple smaller pages   |          | 03/05/2018 11:28 AM |  |
| 2382 | OsmoBSC                | Bug     | New     | Normal   | T3105 not consistently communicated to all BTS models                                   |          | 03/05/2018 07:02 PM |  |
| 2411 | OsmoMGW                | Feature | New     | Low      | No support for RTP dynamic payload types - AMR/HR/EFR payload types are hardcoded       |          | 03/05/2018 07:04 PM |  |
| 1955 | OsmoNITB               | Bug     | New     | Normal   | Investigate "Bad signalling message" error  |          | 03/05/2018 07:33 PM |  |
| 1904 | OsmoNITB               | Bug     | New     | Normal   | get rid of deprecated functions   |          | 03/05/2018 07:33 PM |  |
| 1829 | OsmoNITB               | Bug     | New     | Normal   | Fix warnings introduced by ctrl constify  |          | 03/05/2018 07:34 PM |  |
| 54   | OsmoNITB               | Bug     | New     | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent                       |          | 03/05/2018 07:34 PM |  |
| 48   | OsmoNITB               | Bug     | New     | Normal   | Periodic timer and paging   |          | 03/05/2018 07:34 PM |  |
| 38   | OsmoNITB               | Bug     | New     | Normal   | subscr_update should sync database before dispatching the signal                        |          | 03/05/2018 07:34 PM |  |
| 37   | OsmoNITB               | Bug     | New     | Normal   | RTP Proxy dealing with SSRC change and sequence numbers                                 |          | 03/05/2018 07:34 PM |  |
| 1725 | OsmoNITB               | Bug     | Stalled | Low      | iPhone6 network selection issue with GSM1900  |          | 03/05/2018 07:35 PM |  |
| 1671 | OsmoNITB               | Bug     | Stalled | Low      | Combined 850/1800 NITB not seen by Option Icon2 stick                                   |          | 03/05/2018 07:35 PM |  |
| 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 |  |

| #    | Project  | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                     |
|------|--|---------|----------|----------|--|----------|---------------------|------------------------------------|
| 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 |                                    |
| 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 |                                    |
| 2691 | OsmoNITB   | Bug     | Feedback | Normal   | Old TMSI paged after LU  |          | 05/17/2018 11:47 AM |                                    |
| 3280 | OsmocomBB  | Feature | New      | Low      | Multiparty SS support in OsmocomBB   |          | 05/22/2018 07:40 AM |                                    |
| 18   | OsmoNITB   | Feature | New      | Low      | store last location identity to database   |          | 05/24/2018 01:15 PM |                                    |
| 3309 | libosmocore  | Feature | New      | Normal   | osmo_timer_* should use monotonic clock  |          | 05/31/2018 03:59 PM | Related to #3309                   |
| 3240 | gr-osmosdr   | Bug     | New      | Normal   | Expose airspy gain setting in gr-osmosdr block   |          | 06/03/2018 12:08 PM |                                    |
| 2824 | gr-osmosdr   | Bug     | New      | High     | Corrupted double-linked for Raspbian Stretch when running osmocom_fft (and any other program using osmosdr.source) |          | 06/03/2018 12:08 PM |                                    |
| 2216 | gr-osmosdr   | Bug     | New      | Normal   | uhd: LO offset doesn't seem to work properly   |          | 06/03/2018 12:08 PM |                                    |
| 2607 | rtl-sdr  | Bug     | New      | Normal   | rtl-sdr gnuradio cfile is outdated   |          | 06/03/2018 12:23 PM |                                    |
| 1983 | rtl-sdr  | Support | New      | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list   |          | 06/03/2018 12:24 PM |                                    |
| 3315 | rtl-sdr  | Feature | New      | Normal   | review and possibly apply patches from debian package  | steve-m  | 06/03/2018 01:17 PM |                                    |

| #    | Project                        | Tracker | Status   | Priority | Subject  | Assignee   | Updated             | Related issues                                     |
|------|--------------------------------|---------|----------|----------|--|------------|---------------------|--|
| 2237 | OsmoGSMTester                  | Bug     | Feedback | Normal   | ofono: Gobi modem: successful SMS delivery is evaluated as not successful                          | lynxis     | 06/07/2018 02:08 PM | Related to #2237,Related to #2237,Blocks #2237     |
| 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 |  |
| 1627 | OsmocomBB                      | Support | Stalled  | Low      | DCS_8BIT and DCS_UCS2 encoding supprot   |            | 07/16/2018 06:53 PM |  |
| 3401 | OsmocomBB                      | Bug     | New      | Normal   | target/firmware/l1ctl: both chan_nr and link_id are not set for L1CTL_DATA_CONF                    |            | 07/16/2018 11:56 PM |  |
| 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                                   |
| 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   | ttn3: 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 libosmocore 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 |

| #    | Project                         | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|----------|----------|--|----------|---------------------|-----------------------------------|
| 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 |                                   |
| 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 |                                   |
| 3399 | OsmocomBB                       | Feature | Stalled  | High     | mobile: refactor / finish external MNCC handler implementation             | fixeria  | 10/04/2018 09:07 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 libosmcore 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                  |
| 3637 | OsmoBSC                         | Bug     | Feedback | Normal   | handover decision 2: properly check available codecs                       | neels    | 10/09/2018 09:45 AM | Related to #3637,Related to #3637 |

| #    | Project            | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|--------------------|---------|-------------|----------|--|----------|---------------------|--|
| 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 |  |
| 3222 | OsmoTRX            | Bug     | Stalled     | Low      | include (tested) example config files for usrp1, uhd/b200 as well as umtrx   | tnt      | 10/20/2018 07:27 PM |  |
| 3653 | OsmocomBB          | Bug     | New         | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX   |          | 10/22/2018 02:37 PM | Related to #5518                                   |
| 2378 | OsmocomBB          | Feature | New         | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git   |          | 10/24/2018 02:13 PM |  |
| 3687 | OsmoMSC            | Feature | New         | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |  |
| 3693 | libosmocore        | Bug     | In Progress | Low      | gsm_04_08.h: numerous packed structs with sub-byte ints lack the order-swap shims for big endian   |          | 11/19/2018 02:05 PM |  |
| 1587 | OsmoSGSN           | Feature | Stalled     | Normal   | SMS over GPRS support  |          | 11/25/2018 08:14 PM | Related to #3587                                   |
| 1597 | OsmoMSC            | Feature | Stalled     | Low      | External interface for USSD  | fixeria  | 11/27/2018 11:08 PM | Related to #1597,Related to #3433                  |
| 3717 | OsmoHLR            | Bug     | Stalled     | High     | SS/USSD: fix SS session inactivity timeout   | fixeria  | 12/05/2018 08:45 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                  |
| 3445 | OsmoMSC            | Feature | Stalled     | Normal   | SS/USSD: clean up the local GSM 04.80 API  |          | 12/14/2018 01:57 PM |  |
| 3734 | gr-osmosdr         | Bug     | New         | High     | Cannot compile gr-osmocom  |          | 12/16/2018 12:22 AM |  |
| 3738 | OsmoMSC            | Feature | New         | Normal   | Clarify PS-part of struct vlr_subscr   |          | 12/19/2018 12:34 PM |  |
| 3741 | osmo-sip-connector | Bug     | New         | Normal   | Unknow call parameters shown in vty  |          | 12/28/2018 02:01 PM |  |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|---------|----------|---|----------|---------------------|---|
| 3747 | UmTRX                           | Feature | New     | Normal   | LMS6002D RX Gain Control  | ipse     | 01/08/2019 09:46 AM |   |
| 3568 | OsmoBTS                         | Bug     | Stalled | High     | CBCH on SDCCH/8 not working for osmo-bts-sysmo  | laforge  | 01/14/2019 03:29 PM |   |
| 3569 | OsmoBTS                         | Bug     | Stalled | Normal   | Some phones don't receive SMS   | laforge  | 01/14/2019 03:32 PM |   |
| 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 |   |
| 3054 | OsmoTRX                         | Feature | Stalled | Normal   | Extended (11-bit) RACH support in OsmoTRX   | tnt      | 02/03/2019 11:45 AM | Related to #1854,Related to #3054,Related to #3054,Related to #4006 |
| 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 Assignment Complete messages from BSC                                      |          | 03/07/2019 08:30 PM |   |
| 3812 | libosmo-netif                   | Bug     | Stalled | Normal   | stream_test fails depending on where it is run  |          | 03/13/2019 04:15 PM |   |
| 3845 | libosmocore                     | Feature | New     | Low      | Unified logging in Gb NS / BSSGP code   |          | 03/16/2019 02:33 PM |   |
| 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  |
| 2514 | GSM Audio Pocket Knife          | Bug     | Stalled | Normal   | GSM HR encoding result does not match the reference   | fixeria  | 04/03/2019 08:37 AM |   |
| 1479 | Mobile (in)Security             | Bug     | New     | Normal   | MTK stack unable to send MO-SMS on TCH/F  |          | 04/03/2019 09:01 AM |   |
| 3689 | OsmoSGSN                        | Bug     | New     | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)   |          | 04/09/2019 11:21 AM |   |

| #    | Project                         | Tracker | Status      | Priority | Subject   | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|-------------|----------|---|----------|---------------------|--|
| 3356 | OsmoSGSN                        | Bug     | In Progress | Normal   | OsmoSGSN doesn't provide unique IDTAG_SERNR in IPA CCM  | osmith   | 04/09/2019 11:22 AM | Related to #3356,Related to #3356,Related to #3644                                   |
| 3688 | OsmoSGSN                        | Feature | New         | Low      | move generic gtpub code to libosmocore  |          | 04/15/2019 07:29 AM |  |
| 3920 | OsmoSGSN                        | Support | In Progress | Normal   | PCAPs files of 3G PS for Osmocom network and Commercial one   |          | 04/18/2019 02:03 PM | Related to #3920,Related to #3936,Related to #3923,Related to #3937,Related to #3922 |
| 3940 | OsmoSGSN                        | Bug     | New         | Normal   | TTCN-3: lu: test UMTS Auth  |          | 04/24/2019 08:24 AM |  |
| 3939 | OsmoSGSN                        | Bug     | New         | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request  |          | 04/24/2019 08:25 AM |  |
| 3923 | OsmoSGSN                        | Bug     | New         | Normal   | lu: Respond to SecurityCommandReject messages   |          | 04/24/2019 08:26 AM | Related to #3923   |
| 3980 | OsmoMGW                         | Bug     | New         | Normal   | Clear Command before CRCX OK may leak MGW endpoint  |          | 05/06/2019 10:11 PM |  |
| 3755 | OsmoMSC                         | Feature | New         | Low      | make retrieval of IMEISV configurable   |          | 05/07/2019 12:28 PM | Related to #3755   |
| 3936 | OsmoSGSN                        | Bug     | New         | Normal   | lu: first GMM Service Request does not find a MM ctx  |          | 05/07/2019 01:37 PM | Related to #3936   |
| 3229 | Cellular Network Infrastructure | Feature | New         | Low      | build-system: jenkins.sh: Improve debian package generation test coverage during gerrit submission                                |          | 05/08/2019 02:36 PM | Related to #3228   |
| 3987 | libosmocore                     | Feature | New         | Low      | introduce libosmocore_init() to replace individual initialization calls   |          | 05/08/2019 03:03 PM | Related to #3987   |
| 3988 | OsmoMSC                         | Feature | New         | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()   |          | 05/08/2019 03:26 PM |  |
| 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 |  |
| 3937 | OsmoSGSN                        | Bug     | In Progress | Normal   | lu: verify handling of GMM Service Request (data)when no PDP Context present.   |          | 05/21/2019 10:28 AM | Related to #3937   |
| 4014 | OsmoBTS                         | Feature | New         | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX  |          | 05/21/2019 12:07 PM |  |
| 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 |  |

| #    | Project                         | Tracker | Status  | Priority | Subject   | Assignee  | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|---|-----------|---------------------|------------------|
| 4017 | OsmoMSC                         | Bug     | New     | Normal   | MSC fails to handle calls   |           | 05/29/2019 04:56 PM |                  |
| 4033 | OsmoGGSN (former OpenGGSN)      | Feature | New     | Normal   | ttn3-ggsn-test: Add tests to verify secondary pdp context management                          |           | 05/30/2019 03:19 PM |                  |
| 3735 | OsmoMSC                         | Bug     | Stalled | Normal   | call arriving during another call has no voice  | neels     | 06/18/2019 09:18 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 |                  |
| 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 |                  |
| 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 |                  |
| 3597 | gr-osmosdr                      | Feature | New     | Low      | rtl: send final samples when device is lost   | 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 |                  |

| #    | Project                               | Tracker | Status   | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------------|---------|----------|----------|--|----------|---------------------|--|
| 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 |  |
| 2851 | OsmoMSC                               | Bug     | Stalled  | Normal   | a_iface.c:534 Unhandled SIGTRAN primitive: 3:2                                     |          | 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 |  |
| 2979 | OsmoBTS                               | Bug     | Stalled  | Low      | osmo-bts-virtual reports bogus measurement values                                  | laforge  | 07/18/2019 06:06 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 sysmobts and nanobts if DTX is enabled                         |          | 07/18/2019 06:08 AM | Related to #1562                                   |
| 1926 | OsmoBTS                               | Feature | New      | Low      | unify *_mgr code   |          | 07/18/2019 06:08 AM |  |
| 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                                   |
| 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 |  |
| 2872 | OsmoMSC                               | Bug     | Feedback | Normal   | OsmoMSC doesn't check if CIPHER MODE COMPLETE contains cipher that matches REQUEST | neels    | 07/29/2019 01:15 PM |  |
| 3164 | OsmoMSC                               | Bug     | Feedback | Low      | invalid LAI in level 3 complete: unify BSSMAP and RANAP verification               | neels    | 07/29/2019 01:34 PM | Related to #3162,Related to #3163,Related to #3164 |
| 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 |  |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------|---------|---------|----------|--|----------|---------------------|--|
| 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  |
| 3620 | OsmoMSC                         | Feature | Stalled | Normal   | Implement TTCN-3 testsuite for Inter-MSC HO  | neels    | 09/04/2019 09:08 AM |  |
| 4189 | OsmoBSC                         | Feature | New     | Low      | TTCN-3 tests for load-based hand-over in BSC   |          | 09/04/2019 09:10 AM | Related to #4189   |
| 3560 | OsmoGSMTester                   | Bug     | Stalled | Normal   | nanoBTS multiTRX tests in osmo-gsm-tester Prod setup failing   | pespin   | 09/04/2019 09:16 AM | Related to #3560,Related to #3560,Related to #3628,Is duplicate of #3475 |
| 2622 | OsmoBSC                         | Support | Stalled | High     | Prepare automatic interop testing of OmsoBSC against NG40 core simulator + osmo-bts-virtual + mobile                             |          | 09/04/2019 09:18 AM | Related to #2478,Related to #2558,Related to #2555                       |
| 2677 | libosmocore                     | Support | New     | Normal   | Make stat_item available over ctrl interface   |          | 09/04/2019 09:21 AM | Related to #2676   |
| 2943 | OsmoMSC                         | Bug     | New     | Normal   | Errors in MGCP do not propagate back to MNCC gsm_subscriber_conn state machine   |          | 09/04/2019 09:21 AM |  |
| 2893 | OsmoBSC                         | Feature | Stalled | Low      | automatic simulator for large LU load  |          | 09/04/2019 09:23 AM | Related to #2722,Related to #2591,Blocks #2893,Blocks #2893              |
| 1823 | OsmoPCU                         | Feature | Stalled | Low      | Ericsson PCU TRAU frame encoding/decoding  |          | 09/04/2019 09:26 AM | Related to #5198   |
| 2355 | OsmoBTS                         | Bug     | New     | Low      | optimize log output of phy specific code   |          | 09/04/2019 09:26 AM | Related to #2355   |
| 2580 | OsmoMGW                         | Feature | New     | Low      | implement timeout/resend mechanism for mgcp_client   |          | 09/04/2019 09:26 AM |  |
| 3442 | OsmoMGW                         | Bug     | New     | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c  |          | 09/04/2019 09:26 AM |  |

| #    | Project                         | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------|---------|-------------|----------|--|----------|---------------------|--|
| 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                                   |
| 1685 | osmo-sip-connector              | Feature | In Progress | Normal   | osmo-sip-connector: Review and define log statements and which info to include | osmith   | 09/04/2019 09:31 AM |  |
| 4167 | OsmoMSC                         | Bug     | Feedback    | Normal   | Event VLR_ULA_E_ID_IMEISV not permitted  | osmith   | 09/04/2019 08:13 PM |  |
| 2404 | OsmoPCU                         | Bug     | Feedback    | Low      | PAGING-PS doesn't use QoS parameters from BSSGP                                | osmith   | 09/10/2019 11:54 AM |  |
| 2955 | OsmoSGSN                        | Bug     | New         | High     | No GMM ATTACH REJECT on GSUP UpdateLocation Error                              | lynxis   | 09/10/2019 07:39 PM |  |
| 2951 | OsmoSGSN                        | Bug     | Feedback    | Normal   | OsmoSGSN Accepts two MO L3 Messages with N(U) set to zero                      | osmith   | 09/11/2019 12:24 PM |  |
| 2501 | OsmoSGSN                        | Bug     | In Progress | Normal   | suspected problem with unanswered neighbor solicitation                        | osmith   | 09/11/2019 12:58 PM |  |
| 4200 | OsmoMSC                         | Feature | In Progress | Normal   | Work around nano3G-S16 requiring RAB ID to be below 16                         | efistokl | 09/14/2019 09:48 AM |  |
| 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 |  |
| 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 |  |
| 2497 | OsmoGSMTester                   | Support | Stalled     | Normal   | Set up SIM cards with auth algo other than comp128v1                           | daniel   | 10/15/2019 11:44 AM | Related to #2475                                   |
| 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 |  |
| 4240 | OsmoMSC                         | Bug     | In Progress | Normal   | test: incoming call when already Paging  |          | 11/27/2019 11:09 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                              |

| #    | Project                         | Tracker | Status  | Priority | Subject  | Assignee   | Updated             | Related issues                         |
|------|---------------------------------|---------|---------|----------|--|------------|---------------------|--|
| 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 |  |
| 4131 | Cellular Network Infrastructure | Bug     | Stalled | Low      | osmo-gsm-manuals: Use leveloffset attribute on common documents                                  | osmith     | 12/01/2019 09:48 AM | Related to #4140                       |
| 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 |  |
| 3863 | OsmoBTS                         | Support | Stalled | Normal   | setup testing of osmo-bts-oc2g on real hardware with ttcn3 and osmocon/osmocom-bb                |            | 12/01/2019 10:52 AM |  |
| 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 |
| 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 |  |

| #    | Project                         | Tracker | Status   | Priority | Subject   | Assignee  | Updated             | Related issues  |
|------|---------------------------------|---------|----------|----------|---|-----------|---------------------|---|
| 4333 | Cellular Network Infrastructure | Support | Feedback | Normal   | GSUP binary compatibility: add GSUP protocol version IE?  |           | 12/16/2019 01:56 PM | Related to #4333,Related to #4333,Related to #4333                  |
| 3294 | OsmoMSC                         | Bug     | Stalled  | High     | transaction: refactor callref allocation  | neels     | 12/16/2019 02:37 PM | Related to #3294,Related to #3294,Related to #4333,Related to #4854 |
| 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  |
| 2807 | Z-Netz                          | Bug     | Stalled  | Normal   | Obtain ZERBERUS software build[s] and manual[s]   | laforge   | 01/01/2020 01:51 PM |   |
| 2799 | linmodem                        | Feature | New      | Normal   | SIP client supportt   |           | 01/01/2020 08:05 PM |   |
| 4336 | OsmoMSC                         | Feature | New      | Normal   | Convert vlr_lu_fsm.c to use osmo_tdef (and drop vlr_timer())  |           | 01/02/2020 05:32 PM | Related to #4337  |
| 2698 | OsmoMSC                         | Bug     | New      | Low      | Add more tests to jenkins job testing osmo-msc against NG40tester   |           | 01/08/2020 10:17 PM | Related to #2477  |
| 3731 | OsmoMGW                         | Bug     | New      | Normal   | TTCN3 TC_rtpem_selftest randomly fails  |           | 01/08/2020 10:18 PM |   |
| 2918 | OsmoBSC                         | Feature | New      | Low      | Implement a function to properly test connection clearing in MSC_ConnectionHandler.ttcn (BSC-Tests)   |           | 01/08/2020 10:21 PM |   |
| 4053 | libosmocore                     | Feature | New      | Low      | CTRL: Add CTRL cmd introspection to print documentation   |           | 01/08/2020 10:21 PM | Related to #4053,Related to #4443                                   |
| 2712 | libosmocore                     | Feature | New      | Low      | implement reproducible talloc context printout, i.e. without memory addresses   |           | 01/08/2020 10:21 PM | Related to #2781  |
| 3699 | Cellular Network Infrastructure | Feature | Stalled  | Low      | merge Debian patches  | Hoernchen | 01/08/2020 10:24 PM | Related to #3699,Related to #3753                                   |
| 3352 | OsmoMGW                         | Feature | Feedback | Low      | osmo-mgw does not allow multiple codecs in LCO  | neels     | 01/08/2020 10:25 PM |   |
| 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 |   |
| 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  |

| #    | Project       | Tracker | Status      | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------|---------|-------------|----------|--|----------|---------------------|--|
| 2941 | OsmoGSMTester | Bug     | New         | Normal   | ofono: SierraW sometimes crashing while deactivating a context.                      |          | 01/08/2020 10:40 PM |  |
| 2621 | OsmoGSMTester | Bug     | New         | Normal   | Gobi2000: might stopped working because all CID got assigned                         |          | 01/08/2020 10:40 PM |  |
| 3046 | OsmoGSMTester | Bug     | New         | Normal   | ofono: SierraW modem fails to power on   |          | 01/08/2020 10:41 PM |  |
| 2238 | OsmoGSMTester | Bug     | In Progress | Normal   | ofono: Gobi modem: cannot receive SMS  |          | 01/08/2020 10:42 PM | Related to #2238                                   |
| 3564 | OsmoGSMTester | Feature | New         | Normal   | Investigate ofono and modems Cell Broadcast support                                  |          | 01/08/2020 10:42 PM | Related to #3564                                   |
| 1543 | OsmoPCU       | Feature | New         | Normal   | link/rate adaption as per spec   |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                  |
| 2603 | OsmoPCU       | Bug     | New         | Low      | Review the various incomplete and never merged changes in radisys branch             |          | 01/08/2020 10:44 PM | Related to #1775                                   |
| 3284 | OsmoPCU       | Bug     | New         | Normal   | GPRS cell re-selection appears sticky in packet transfer / packet idle mode          |          | 01/08/2020 10:45 PM | Related to #2400,Related to #3284                  |
| 1818 | OsmoSGSN      | Bug     | New         | Normal   | luPS: CN should lu Release in certain situations                                     |          | 01/08/2020 10:47 PM | Related to #1818,Related to #3302,Related to #3908 |
| 2953 | OsmoSGSN      | Bug     | New         | Normal   | No timeout waiting for UpdateLocation Response on GSUP                               |          | 01/08/2020 10:47 PM | Related to #2952                                   |
| 2957 | OsmoSGSN      | Bug     | New         | Normal   | No timeout during GSUP PURGE MS to HLR   |          | 01/08/2020 10:47 PM |  |
| 2962 | OsmoSGSN      | Bug     | New         | Normal   | Missing TTCN-3 test cases  |          | 01/08/2020 10:47 PM |  |
| 3696 | OsmoSGSN      | Bug     | New         | Normal   | Intermittent Connection Drop   |          | 01/08/2020 10:48 PM |  |
| 2960 | OsmoSGSN      | Bug     | New         | Normal   | OsmoSGSN confirms PDP CTX ACT to MS/Gb despite missing conditional IEs on GTP        |          | 01/08/2020 10:48 PM |  |
| 3224 | OsmoSGSN      | Bug     | New         | Normal   | verify ciphering after UMTS AKA  |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224                  |
| 1942 | OsmoSGSN      | Bug     | Feedback    | Normal   | Gb: implement paging in case of MM state == STANDBY && rx DL PDU                     |          | 01/08/2020 10:48 PM | Related to #1942,Related to #4222                  |
| 1881 | OsmoSGSN      | Bug     | In Progress | Normal   | don't send PDP CTX DEACT ACK to MS when destroying PDP ctx indepent from MS requests |          | 01/08/2020 10:49 PM |  |
| 1655 | OsmoSGSN      | Feature | Stalled     | Normal   | KPIs for OsmoSGSN  |          | 01/08/2020 10:49 PM | Related to #1652,Related to #1655,Related to #1655 |
| 2958 | OsmoSGSN      | Bug     | Stalled     | Normal   | OsmoSGSN doesn't authenticate on second/further ATTACH REQUEST                       |          | 01/08/2020 10:49 PM | Related to #2958,Related to #4221                  |
| 2236 | OsmoGSMTester | Bug     | New         | Low      | ofono: Fix valgrind issues   |          | 01/08/2020 10:51 PM |  |

| #    | Project            | Tracker | Status  | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|--------------------|---------|---------|----------|--|----------|---------------------|--|
| 2468 | OsmoGSMTester      | Feature | New     | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface  |          | 01/08/2020 10:51 PM |  |
| 2432 | OsmoGSMTester      | Feature | New     | Low      | ofono: Find out how to receive Status / Delivery report                  |          | 01/08/2020 10:51 PM |  |
| 1768 | OsmoSGSN           | Bug     | Stalled | Low      | VTY show llc displays State TLLI Unassigned permanently                  |          | 01/08/2020 10:52 PM |  |
| 1687 | osmo-sip-connector | Feature | New     | Low      | osmo-sip-connector: Explore 3-way conference call                        |          | 01/08/2020 10:56 PM |  |
| 1812 | OsmoNITB           | Feature | New     | Normal   | Report gsm0408_dispatch() failures to MS / UE                            |          | 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                  |
| 2305 | OsmoSGSN           | Bug     | New     | Normal   | review 'laforge/santos' branch and check if there are pending fixes      |          | 01/08/2020 10:56 PM |  |
| 2436 | OsmoHNBGW          | Feature | New     | Low      | Test cases for asn1c APER encoding                                       |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 2884 | OsmoMSC            | Bug     | New     | Low      | Call Control timers are very long and not configurable                   |          | 01/08/2020 10:56 PM |  |
| 2437 | OsmoHNBGW          | Bug     | New     | Low      | synchronize different asn1c APER forks                                   |          | 01/08/2020 10:56 PM | Related to #2435,Related to #2436,Related to #3862 |
| 3169 | OsmoMSC            | Bug     | New     | Low      | OsmoMSC rejects SMPP messages with empty SMS                             |          | 01/08/2020 10:56 PM |  |
| 3931 | OsmoGSMTester      | Support | New     | Normal   | Contact quectel to get info about modem updates (hopefully less crashes) |          | 01/08/2020 10:56 PM | Related to #3931                                   |
| 3970 | OsmoTRX            | Bug     | New     | Low      | libusrp fails to compile 1/4 of times in jenkins with PARALLEL_MAKE set  |          | 01/08/2020 10:56 PM | Is duplicate of #3970                              |
| 4124 | OsmoBSCNAT         | Feature | New     | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124                                   |

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