

## Issues

| #    | Project             | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                    |
|------|---------------------|---------|--------|----------|---|----------|---------------------|-----------------------------------|
| 18   | OsmoNITB            | Feature | New    | Low      | store last location identity to database  |          | 05/24/2018 01:15 PM |                                   |
| 21   | OsmoNITB            | Bug     | New    | Low      | we don't see CHANnel ReQireD from motorola EZX phones at call setup                                     |          | 03/05/2018 07:36 PM |                                   |
| 25   | OsmoMSC             | Feature | New    | Low      | Call HOLD / RETRIEVE support for internal MNCC  |          | 08/01/2019 03:06 PM |                                   |
| 28   | OsmoNITB            | Bug     | New    | Low      | Old siemens phones cannot make voice calls (04.08 channel mode)   |          | 03/05/2018 07:36 PM |                                   |
| 33   | OsmoSGSN            | Feature | New    | Low      | real LLC implementation with fragmentation and re-transmissions   |          | 11/09/2016 09:45 AM |                                   |
| 34   | OsmoBSC             | Bug     | New    | Normal   | ipaccess init code needs proper state machines  |          | 12/10/2017 08:16 PM | Related to #34                    |
| 37   | OsmoNITB            | Bug     | New    | Normal   | RTP Proxy dealing with SSRC change and sequence numbers   |          | 03/05/2018 07:34 PM |                                   |
| 38   | OsmoNITB            | Bug     | New    | Normal   | subscr_update should sync database before dispatching the signal  |          | 03/05/2018 07:34 PM |                                   |
| 39   | OsmoBSC             | Feature | New    | Low      | Logging filter on bts/trx or such   |          | 06/08/2020 07:07 PM |                                   |
| 41   | OsmoMSC             | Bug     | New    | Normal   | Numbering Plan in OsmoMSC   |          | 06/23/2018 07:37 PM |                                   |
| 48   | OsmoNITB            | Bug     | New    | Normal   | Periodic timer and paging   |          | 03/05/2018 07:34 PM |                                   |
| 54   | OsmoNITB            | Bug     | New    | Normal   | osmo-nitb keeps rtp-proxy socket open in case no DLCX_IND is sent                                       |          | 03/05/2018 07:34 PM |                                   |
| 57   | OsmoBTS             | Bug     | New    | Low      | sysmobts L1 is not properly closed, DSP firmware reload is required                                     |          | 03/01/2018 11:16 PM | Related to #57                    |
| 61   | OsmoBTS             | Feature | New    | Low      | osmo-bts: split TRAU/RTP frame handling into separate process   |          | 06/13/2016 01:16 PM |                                   |
| 68   | OsmoBSC             | Bug     | New    | Low      | ipaccess-config should work with -u ID -o IP -r BTS_IP  |          | 12/10/2017 07:52 PM |                                   |
| 69   | OsmoBSC             | Bug     | New    | Low      | No timers for various calls   |          | 12/10/2017 07:53 PM |                                   |
| 70   | OsmoNITB            | Bug     | New    | Low      | nitb crashes in the rtp_proxy when a phone on a MT-call sends a 'CONNECT' before the CRCX ACK came back |          | 05/09/2016 07:37 PM |                                   |
| 72   | OsmoNITB            | Bug     | New    | Low      | struct gsm_call can leak..  |          | 05/09/2016 07:37 PM |                                   |
| 73   | OsmoBSC             | Bug     | New    | Low      | Kill the paging_init_if_needed method in paging.c   |          | 12/10/2017 07:53 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 |                                   |
| 1477 | Mobile (in)Security | Bug     | New    | High     | RACH flood DoS  |          | 02/21/2016 04:34 PM |                                   |
| 1478 | Mobile (in)Security | Bug     | New    | High     | IMSI DETACH DoS   |          | 09/02/2019 09:00 AM |                                   |
| 1479 | Mobile (in)Security | Bug     | New    | Normal   | MTK stack unable to send MO-SMS on TCH/F  |          | 04/03/2019 09:01 AM |                                   |
| 1480 | Mobile (in)Security | Bug     | New    | High     | A5/3 is not deployed in GSM networks  |          | 02/21/2016 04:34 PM |                                   |
| 1481 | Mobile (in)Security | Bug     | New    | High     | Random LAPDm MAC-block padding is not deployed yet  |          | 02/21/2016 04:34 PM | Related to #5256,Related to #5257 |
| 1482 | Mobile (in)Security | Bug     | New    | Normal   | Sending the TMSI of the old/previous network  |          | 02/21/2016 04:35 PM |                                   |
| 1483 | Mobile (in)Security | Bug     | New    | High     | USSD state is not reset when switching cells  |          | 02/21/2016 04:34 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 |                                   |

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|------|---------------------------------|---------|--------|----------|--|----------|---------------------|---|
| 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 |   |
| 1530 | OsmoPCU                         | Feature | New    | Low      | Assign same TFI number in downlink/uplink                    |          | 01/26/2020 08:50 AM |   |
| 1537 | OsmoPCU                         | Feature | New    | Low      | Move the BSSGP handling to libosmocore                       |          | 03/01/2018 11:17 PM | Related to #1537,Related to #2388                       |
| 1543 | OsmoPCU                         | Feature | New    | Normal   | link/rate adaption as per spec                               |          | 01/08/2020 10:43 PM | Related to #1543,Related to #1543                       |
| 1546 | OsmoPCU                         | Feature | New    | Low      | closed loop uplink power control                             |          | 09/30/2020 08:05 PM |   |
| 1547 | OsmoPCU                         | Feature | New    | Normal   | downlink power control on PDTCH                              |          | 02/23/2016 03:04 PM |   |
| 1549 | OsmoPCU                         | Feature | New    | Normal   | DRX support for GPRS   |          | 02/04/2017 08:11 AM | Related to #1942  |
| 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  |
| 1555 | OsmoPCU                         | Feature | New    | Low      | Add support for unacknowledged RLC Mode                      |          | 01/22/2020 02:59 PM |   |
| 1560 | OsmoPCU                         | Feature | New    | High     | EDGE benchmarking / performance optimization / tuning        |          | 01/08/2020 10:31 PM |   |
| 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 |   |
| 1573 | OsmoBTS                         | Feature | New    | Low      | ENHANCED MEASUREMENT REPORT                                  |          | 07/19/2021 04:13 PM |   |
| 1576 | OsmoBTS                         | Feature | New    | Low      | consider using hLayer2 as a pointer storage                  |          | 02/02/2017 04:11 PM | Related to #1755  |
| 1577 | OsmoBTS                         | Bug     | New    | Normal   | mph_send_config_logchpar doesn't update encryption config    |          | 02/23/2016 03:39 PM |   |
| 1579 | OsmoBTS                         | Feature | New    | Low      | Use epoll  |          | 01/15/2021 01:44 PM |   |
| 1583 | OsmoSGSN                        | Feature | New    | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR              |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1583,Related to #4485      |
| 1585 | OsmoSGSN                        | Feature | New    | Low      | Gn interface for inter-SGSN MM Context transfer              |          | 09/22/2023 02:42 PM | Related to #5759,Related to #6294,Is duplicate of #1585 |
| 1586 | OsmoSGSN                        | Feature | New    | Normal   | Implement QoS profile support                                |          | 02/23/2016 03:45 PM |   |
| 1588 | OsmoSGSN                        | Feature | New    | Normal   | Inter-RAT hand-over  |          | 02/23/2016 03:46 PM |   |
| 1590 | Cellular Network Infrastructure | Feature | New    | Low      | Extension of Control Interface / external SNMP agent         |          | 07/18/2019 05:22 AM |   |

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|------|---------------------------------|---------|--------|----------|---|----------|---------------------|---|
| 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 |   |
| 1599 | OsmoMSC                         | Feature | New    | Normal   | Gs interface (BSSMAP+) between SGSN and MSC/VLR   |          | 06/13/2020 05:52 PM | Related to #1583,Related to #1747,Related to #1599,Related to #4485 |
| 1600 | OsmoBSC                         | Feature | New    | Low      | BSC: Make SI / rest octests more configurable   |          | 12/10/2017 08:04 PM |   |
| 1603 | OsmoMSC                         | Feature | New    | Low      | Interfacing the MSC with other networks: Roaming interfaces / MAP                         |          | 07/18/2019 06:13 AM |   |
| 1612 | Cellular Network Infrastructure | Bug     | New    | Low      | more configuration consistency checking   |          | 09/30/2018 11:48 AM |   |
| 1613 | OsmoBSC                         | Feature | New    | Low      | make BTS/TRX configuration changes without having to drop BTS OML link                    |          | 12/10/2017 08:06 PM |   |
| 1624 | OsmoPCU                         | Bug     | New    | Normal   | add CRBB support to write_packet_ack_nack_desc_egprs                                      |          | 10/20/2020 08:37 AM |   |
| 1643 | OsmoHLR                         | Feature | New    | Low      | programmatic access to new asynchronous external HLR                                      |          | 12/10/2017 08:06 PM | Related to #1643,Blocks #1643                                       |
| 1659 | OsmoBSC                         | Feature | New    | Low      | Check encoding of SI at time parameters are entered from VTY, not just at generation time |          | 12/10/2017 08:06 PM |   |
| 1667 | OsmoNITB                        | Feature | New    | Normal   | Handle callref better   |          | 09/04/2019 09:31 AM | Related to #3294  |
| 1674 | OsmoBTS                         | Bug     | New    | Low      | Kill duplication between l1_if.c and sysmbots_ctrl.c                                      |          | 07/18/2019 06:08 AM |   |
| 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 |   |
| 1686 | osmo-sip-connector              | Feature | New    | Normal   | osmo-sip-connector: Implement call holding on SIP   |          | 10/20/2020 08:36 AM |   |
| 1687 | osmo-sip-connector              | Feature | New    | Low      | osmo-sip-connector: Explore 3-way conference call   |          | 01/08/2020 10:56 PM |   |
| 1688 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | SUA: support N-STATE indication primitives for connect and disconnect events              |          | 04/08/2018 07:59 AM |   |
| 1692 | OsmoBTS                         | Feature | New    | Low      | clock source monitoring   |          | 04/13/2016 09:49 AM |   |
| 1716 | libosmocore                     | Feature | New    | Normal   | enhance unit test coverage  |          | 08/17/2016 03:57 PM | Related to #1987,Precedes #1717                                     |
| 1744 | OsmoBTS                         | Bug     | New    | Low      | 1-way voice between sysmbots and nanobts if DTX is enabled                                |          | 07/18/2019 06:08 AM | Related to #1562  |
| 1751 | OsmoBTS                         | Bug     | New    | Low      | incompatibility between LCR and DTX   |          | 06/14/2016 04:39 PM |   |
| 1755 | OsmoBTS                         | Feature | New    | Low      | osmo-bts-sysmo L1: unify hLayer3 handling   |          | 02/02/2017 04:00 PM | Related to #1755  |
| 1771 | OsmoBTS                         | Feature | New    | Low      | osmo-bts-trx: clarify check_transceiver_availability()                                    |          | 03/01/2018 11:17 PM | Related to #1770  |
| 1812 | OsmoNITB                        | Feature | New    | Normal   | Report gsm0408_dispatch() failures to MS / UE   |          | 01/08/2020 10:56 PM |   |

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|------|---------------------------------------|---------|--------|----------|---|----------|---------------------|--|
| 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 |  |
| 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 |
| 1829 | OsmoNITB                              | Bug     | New    | Normal   | Fix warnings introduced by ctrl constify                              |          | 03/05/2018 07:34 PM |  |
| 1832 | Linux Kernel GTP-U                    | Feature | New    | Normal   | OpenvSwitch GTP-u patch for 2.5                                       |          | 10/27/2016 08:56 AM |  |
| 1837 | OsmoBTS                               | Feature | New    | Low      | autogenerate dtx_dl_amr_fsm.*   |          | 03/01/2018 11:17 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                  |
| 1858 | OsmoBSC                               | Feature | New    | Normal   | make BSC also generate ALERTs   |          | 12/10/2017 07:59 PM |  |
| 1872 | libosmocore                           | Feature | New    | Low      | high-performance remote logging                                       |          | 03/24/2021 12:36 PM |  |
| 1897 | OsmocomTETRA                          | Bug     | New    | Low      | Inefficient sequence search in tetra_find_train_seq                   |          | 04/10/2017 01:04 AM |  |
| 1899 | osmo-qcdiag                           | Bug     | New    | Normal   | osmo-qcdiag: DIAG based pcap tracing (DPL) not working                |          | 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 |  |
| 1901 | osmo-qcdiag                           | Feature | New    | Normal   | osmo-qcdiag: Ability to read/write NV data                            |          | 01/11/2017 12:15 PM |  |
| 1902 | OsmoBTS                               | Feature | New    | Low      | unify/refactor dynamic timeslot code                                  |          | 01/08/2020 10:56 PM | Related to #1902,Related to #3099                  |
| 1903 | OsmoPCU                               | Feature | New    | Low      | convert c++ -> c  |          | 03/23/2020 10:48 PM |  |
| 1904 | OsmoNITB                              | Bug     | New    | Normal   | get rid of deprecated functions                                       |          | 03/05/2018 07:33 PM |  |
| 1907 | osmo-qcdiag                           | Bug     | New    | Normal   | osmo-qcdiag detects CRC errors relatively often                       |          | 01/23/2017 01:47 AM |  |
| 1916 | OsmocomBB                             | Bug     | New    | Normal   | building GNU ARM toolchain with gcc-4.8 fails on modern texinfo       |          | 10/16/2017 02:14 PM |  |
| 1919 | pySim                                 | Bug     | New    | Low      | issue with gcardsim from Greencard (gcard.cn)                         |          | 08/17/2017 06:45 AM |  |
| 1925 | OsmoPCU                               | Bug     | New    | High     | Fix padding for MCS8 transition                                       |          | 01/08/2020 10:31 PM |  |
| 1926 | OsmoBTS                               | Feature | New    | Low      | unify *_mgr code  |          | 07/18/2019 06:08 AM |  |
| 1946 | OsmoBSC                               | Feature | New    | Low      | Add checks to the BSC VTY to prevent configurations known to not work |          | 10/20/2020 08:40 AM | Related to #1614                                   |
| 1955 | OsmoNITB                              | Bug     | New    | Normal   | Investigate "Bad signalling message" error                            |          | 03/05/2018 07:33 PM |  |
| 1973 | OsmoMSC                               | Feature | New    | Low      | VLR: efficient subscriber lookup                                      |          | 07/18/2019 06:15 AM | Related to #1973                                   |

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|------|---------------------------------|---------|--------|----------|--|----------|---------------------|---|
| 1974 | OsmoMSC                         | Feature | New    | Low      | VLR: high water mark on subscriber storage   |          | 05/15/2022 01:45 PM | Related to #1973                        |
| 1983 | rtl-sdr                         | Support | New    | Normal   | Add welle.io and rtl_fm_streamer to rtl-sdr app list   |          | 06/03/2018 12:24 PM |   |
| 1987 | libosmocore                     | Feature | New    | Normal   | gcv code coverage test support   |          | 12/01/2019 01:42 PM | Related to #1987, is duplicate of #1987 |
| 1997 | OsmoHNBGW                       | Feature | New    | Normal   | Improve error check at compilation time  |          | 10/21/2021 04:28 PM |   |
| 2000 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | use m3ua-testtool for the ASP-side verification  |          | 07/18/2019 05:42 AM |   |
| 2003 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement M2UA support   |          | 04/10/2017 12:01 PM |   |
| 2006 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement M2PA support   |          | 02/10/2024 01:17 PM | Related to #3603                        |
| 2007 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement GT based routing   |          | 04/10/2017 12:04 PM |   |
| 2008 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement Global Title Translation   |          | 04/10/2017 12:05 PM |   |
| 2009 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Low      | Implement SCCP connection coupling ("proxy")   |          | 04/10/2017 12:09 PM |   |
| 2011 | Cellular Network Infrastructure | Feature | New    | Low      | clean-up / merge IPA (and IPA CCM) code of libosmocore, libosmo-abis, libosmo-netif, openbsc, etc. |          | 12/07/2022 04:11 PM | Related to #4841                        |
| 2155 | OP25                            | Feature | New    | High     | Replace FSK4 demodulation with IQ demodulator stage.   |          | 04/22/2017 04:16 PM |   |
| 2156 | OP25                            | Feature | New    | High     | Implement forward error correction for HDU.  |          | 04/22/2017 04:16 PM |   |
| 2157 | OP25                            | Feature | New    | High     | Fix "traffic" tab so it displays data for non-HDU data units                                       |          | 04/22/2017 04:16 PM |   |
| 2158 | OP25                            | Feature | New    | High     | Create a shared library for decoding for WireShark and the decoder.                                |          | 04/22/2017 04:16 PM |   |
| 2160 | OP25                            | Feature | New    | High     | Add "datascope" to usrp_p25_rx.py  |          | 04/22/2017 04:16 PM |   |
| 2162 | OP25                            | Bug     | New    | High     | Fix bit-ordering in output for VC55.   |          | 04/22/2017 04:15 PM |   |
| 2166 | OP25                            | Feature | New    | High     | Add support for Max's I/Q 455khz downconverter   |          | 04/22/2017 04:15 PM |   |
| 2167 | OP25                            | Feature | New    | High     | Implement Encryption/Decryption P25 blocks   |          | 04/22/2017 04:15 PM |   |
| 2168 | OP25                            | Bug     | New    | High     | Implement Forward error correction for LDU1/2  |          | 04/22/2017 04:15 PM |   |
| 2169 | OP25                            | Bug     | New    | High     | First-cut of trunking support  |          | 04/22/2017 04:15 PM |   |
| 2170 | OP25                            | Bug     | New    | High     | Implement forward error-correction code, remove IT++ dependency                                    |          | 04/22/2017 04:14 PM |   |
| 2171 | OP25                            | Feature | New    | High     | Use libfftw3 for IFFT/FFT functions.   |          | 04/22/2017 04:14 PM |   |
| 2172 | OP25                            | Bug     | New    | High     | HDU often missing in captures  |          | 04/22/2017 04:14 PM |   |
| 2173 | OP25                            | Feature | New    | High     | Remove dependency on ET++  |          | 04/22/2017 04:14 PM |   |
| 2175 | OP25                            | Feature | New    | High     | Update code for GNURadio 3.6 and later   |          | 04/22/2017 04:14 PM |   |

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| 2179 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | no sign about OsmoCon outside of venue  |          | 04/24/2017 07:10 PM |                  |
| 2186 | libosmocore  | Feature | New    | Low      | split libosmcrypto  |          | 10/05/2017 06:25 AM |                  |
| 2191 | OsmoMSC  | Feature | New    | Normal   | raw PDU mode for SMPP   |          | 12/23/2017 05:48 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 |                  |
| 2200 | OsmoGSMTester  | Feature | New    | Low      | osmo-gsm-tester: allow collecting statistics / KPI of a test case                     |          | 04/06/2020 04:57 PM | Related to #2201 |
| 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 |
| 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 |
| 2216 | gr-osmosdr   | Bug     | New    | Normal   | uhd: LO offset doesn't seem to work properly  |          | 06/03/2018 12:08 PM |                  |
| 2224 | SDR (Software Defined Radio)                           | Feature | New    | Normal   | New Fospor Benchmark Performance  |          | 05/04/2017 01:23 PM |                  |
| 2225 | OsmoGSMTester  | Feature | New    | Low      | tester nitb: connect ctrl interface only once   |          | 05/15/2017 12:58 PM |                  |
| 2230 | OsmoGSMTester  | Feature | New    | Normal   | osmo-gsm-tester: arfcn as resource  |          | 12/14/2017 04:08 PM | Related to #2230 |
| 2236 | OsmoGSMTester  | Bug     | New    | Low      | ofono: Fix valgrind issues  |          | 01/08/2020 10:51 PM |                  |
| 2245 | OsmoGSMTester  | Bug     | New    | Low      | osmo-bts cfg: fix band string   |          | 05/15/2017 12:58 PM | Related to #2230 |
| 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 |                  |
| 2271 | OsmoGSMTester  | Feature | New    | Low      | add test names to pick to the -s cmdline option                                       |          | 05/18/2017 12:32 PM |                  |
| 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 |                  |
| 2305 | OsmoGSN  | Bug     | New    | Normal   | review 'laforge/santos' branch and check if there are pending fixes                   |          | 01/08/2020 10:56 PM |                  |
| 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 |                  |
| 2355 | OsmoBTS  | Bug     | New    | Low      | optimize log output of phy specific code  |          | 09/04/2019 09:26 AM | Related to #2355 |
| 2364 | OsmoBTS  | Bug     | New    | Low      | OsmoBTS sends SI1 even if it is not specified/needed                                  |          | 07/15/2017 10:06 AM |                  |

| #    | Project       | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------|---------|--------|----------|--|----------|---------------------|--|
| 2366 | OsmoBTS       | Feature | New    | Low      | OsmoBTS lacks EXTENDED BCCH support  |          | 07/15/2017 10:42 AM | Related to #1575,Related to #2014                  |
| 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 |  |
| 2374 | OsmoGSMTester | Feature | New    | Normal   | osmo-gsm-tester: add test case: sms between MS with delivery report                                |          | 08/10/2017 04:37 PM |  |
| 2378 | OsmocomBB     | Feature | New    | Normal   | Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git                                 |          | 10/24/2018 02:13 PM |  |
| 2379 | OsmocomBB     | Feature | New    | Normal   | package as .deb  |          | 02/27/2020 02:39 PM |  |
| 2382 | OsmoBSC       | Bug     | New    | Normal   | T3105 not consistently communicated to all BTS models  |          | 03/05/2018 07:02 PM |  |
| 2390 | OsmoMSC       | Feature | New    | Normal   | re-add osmocom specific TLVs to SMPP messages  |          | 12/23/2017 05:48 PM |  |
| 2391 | OsmoMSC       | Feature | New    | Low      | add osmocom specific TLVs to A-interface for BTS/TS and subscriber details                         |          | 10/02/2018 03:40 PM |  |
| 2399 | OsmoGSMTester | Feature | New    | Normal   | add tests for graceful restart of individual components  |          | 07/25/2017 12:02 AM |  |
| 2405 | OsmoPCU       | Feature | New    | Low      | RLC/MAC encoding routines don't use bitvec L/H   |          | 07/29/2017 09:01 AM |  |
| 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 |  |
| 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                  |
| 2430 | OsmoTRX       | Feature | New    | Low      | osmo-trx support bladerf   |          | 02/14/2023 01:39 PM | Is duplicate of #2430,Is duplicate of #2430        |
| 2431 | OsmoGSMTester | Bug     | New    | Normal   | osmo-gsm-tester: add test case: MS sends SMS to ESME   |          | 08/10/2017 03:47 PM |  |
| 2432 | OsmoGSMTester | Feature | New    | Low      | ofono: Find out how to receive Status / Delivery report  |          | 01/08/2020 10:51 PM |  |
| 2435 | OsmoHNBGW     | Bug     | New    | Low      | Osmocom asn1c/libasn1c is based on old fork  |          | 12/21/2022 01:54 PM | Related to #2435,Related to #2435,Related to #3862 |
| 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 |
| 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 |
| 2438 | OsmoNITB      | Bug     | New    | Normal   | MS not registered from osmocom PoV, but registered from ofono PoV                                  |          | 08/14/2017 09:36 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                                       |

| #    | Project                    | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|----------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 2462 | OsmoBSC                    | Feature | New    | Low      | clarify lchan->encr.alg_id   |          | 08/24/2017 01:27 PM | Related to #2462                  |
| 2468 | OsmoGSMTester              | Feature | New    | Low      | ofono: gobi modem doesn't support ofono SupplementaryServices interface        |          | 01/08/2020 10:51 PM |                                   |
| 2494 | OsmoGGSN (former OpenGGSN) | Feature | New    | Low      | IPv6 support on the outer (transport) layer                                    |          | 02/06/2021 12:09 PM |                                   |
| 2504 | OsmoGSMTester              | Support | New    | Normal   | check whether running osmo-* from docker images is feasible on osmo-gsm-tester |          | 04/06/2020 11:28 AM |                                   |
| 2546 | OsmoMGW                    | Feature | New    | Low      | support play-out/announcement endpoint type                                    |          | 10/06/2017 12:30 PM |                                   |
| 2567 | OsmoHLR                    | Feature | New    | Low      | tell the MSC(s) when subscriber data has changed                               |          | 10/11/2017 01:50 AM |                                   |
| 2580 | OsmoMGW                    | Feature | New    | Low      | implement timeout/resend mechanism for mgcp_client                             |          | 09/04/2019 09:26 AM |                                   |
| 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                  |
| 2607 | rtl-sdr                    | Bug     | New    | Normal   | rtl-sdr gnuradio cfile is outdated   |          | 06/03/2018 12:23 PM |                                   |
| 2610 | libosmocore                | Feature | New    | Low      | optimize GnuTLS fallback   |          | 05/01/2018 04:07 PM | Related to #2610,Related to #3909 |
| 2612 | OsmoGSMTester              | Feature | New    | Low      | Allow skipping pcaps by configuration if access to tcpdump is not wanted       |          | 04/06/2020 11:25 AM |                                   |
| 2615 | OsmoGSMTester              | Bug     | New    | Normal   | Add API to check GPS lock in BTS   |          | 11/03/2017 05:00 PM |                                   |
| 2621 | OsmoGSMTester              | Bug     | New    | Normal   | Gobi2000: might stopped working because all CID got assigned                   |          | 01/08/2020 10:40 PM |                                   |
| 2646 | OsmoGSMTester              | Feature | New    | Normal   | osmo-gsm-tester: Add osmo-sip-connector support                                |          | 04/23/2018 10:40 AM |                                   |
| 2650 | OsmoMGW                    | Bug     | New    | Normal   | how can osmo-mgw send a dummy RTP packet before CRCX ACK?                      |          | 06/08/2020 07:08 PM | Related to #4005                  |
| 2651 | OsmoMGW                    | Feature | New    | Low      | Support MGCP Piggybacking  |          | 11/18/2017 05:44 PM |                                   |
| 2677 | libosmocore                | Support | New    | Normal   | Make stat_item available over ctrl interface                                   |          | 09/04/2019 09:21 AM | Related to #2676                  |
| 2688 | libosmocore                | Bug     | New    | Normal   | CTRL iface: make rate_ctr request parser more strict                           |          | 03/24/2021 12:37 PM | Related to #4443                  |
| 2690 | OsmocomBB                  | Bug     | New    | Normal   | ASAN issue on shutdown/no shutdown SYSINFO access                              |          | 11/29/2017 09:33 AM |                                   |
| 2694 | OsmocomBB                  | Bug     | New    | Normal   | SIGSEGV in lapdm code  |          | 11/30/2017 08:45 AM | Related to #2694                  |
| 2697 | osmo-qcdiag                | Feature | New    | Normal   | Create and add debian packages for osmo-qcdiag to osmocom debian repositories  |          | 11/30/2017 06:03 PM |                                   |
| 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                  |
| 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 |                                   |
| 2712 | libosmocore                | Feature | New    | Low      | implement reproducible talloc context printout, i.e. without memory addresses  |          | 01/08/2020 10:21 PM | Related to #2781                  |
| 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                    |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 2717 | libosmo-abis                    | Bug     | New    | Low      | libosmo-abis doesn't use ipa_ccm_make_id_resp()  |          | 12/06/2017 05:47 PM |                                   |
| 2764 | SDR (Software Defined Radio)    | Support | New    | Normal   | osmocom_fft & siggen can't access the X display  |          | 12/15/2017 06:09 PM |                                   |
| 2797 | linmodem                        | Bug     | New    | Normal   | X11 support is 16bit plane only  |          | 05/07/2022 11:34 PM |                                   |
| 2798 | linmodem                        | Feature | New    | Normal   | ALSA Soundcard Support   |          | 01/01/2018 12:02 PM |                                   |
| 2799 | linmodem                        | Feature | New    | Normal   | SIP client support   |          | 01/01/2020 08:05 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 |                                   |
| 2805 | FidoNet                         | Bug     | New    | Low      | Create reproducible / semi-automatic way to create FidoNet node on Linux   |          | 07/18/2019 05:34 AM |                                   |
| 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 |                                   |
| 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 |                                   |
| 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 |                                   |
| 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 |
| 2839 | Cellular Network Infrastructure | Bug     | New    | Low      | statistics split between 2G and 3G   |          | 07/18/2019 05:22 AM |                                   |
| 2861 | OsmoGSMTester                   | Feature | New    | Normal   | osmo-gsm-tester: Add 3g support for sismocell-5k   |          | 12/02/2019 01:36 PM | Related to #2860                  |
| 2878 | OsmoMSC                         | Feature | New    | Low      | OsmoMSC support for "Follow-on request/proceed"  |          | 01/26/2018 09:11 PM |                                   |
| 2883 | OsmoMSC                         | Bug     | New    | Normal   | GSUP encoding of MSISDN is wrong   |          | 10/20/2020 08:41 AM | Related to #4324,Related to #4333 |
| 2884 | OsmoMSC                         | Bug     | New    | Low      | Call Control timers are very long and not configurable   |          | 01/08/2020 10:56 PM |                                   |
| 2913 | OsmocomBB                       | Feature | New    | Low      | Add a tool that decodes Cell Broadcasts (SMSCB)  |          | 09/29/2018 09:31 AM | Related to #3564                  |
| 2916 | OsmoMSC                         | Bug     | New    | Normal   | asan failure on debian unstable in msc_vlr_test_gsm_ciph   |          | 02/09/2018 04:20 PM |                                   |

| #    | Project  | Tracker | Status | Priority | Subject   | Assignee | Updated             | Related issues                     |
|------|--|---------|--------|----------|---|----------|---------------------|------------------------------------|
| 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 |                                    |
| 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                   |
| 2941 | OsmoGSMTester  | Bug     | New    | Normal   | ofono: SierraW sometimes crashing while deactivating a context.                                     |          | 01/08/2020 10:40 PM |                                    |
| 2942 | OsmoBTS  | Bug     | New    | Low      | osmo-bts-virtual+virtphy+mobile paging for SMS delivery fails                                       |          | 02/13/2018 05:05 PM |                                    |
| 2943 | OsmoMSC  | Bug     | New    | Normal   | Errors in MGCP do not propagate back to MNCC gsm_subscriber_conn state machine                      |          | 09/04/2019 09:21 AM |                                    |
| 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 |                                    |
| 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 |                                    |
| 2962 | OsmoSGSN   | Bug     | New    | Normal   | Missing TTCN-3 test cases   |          | 01/08/2020 10:47 PM |                                    |
| 2974 | OsmoBTS  | Bug     | New    | Low      | OsmoBTS doesn't use the "Diagnostics" part of the RSL Cause IE                                      |          | 07/18/2019 05:48 AM |                                    |
| 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 |
| 3006 | libosmo-netif  | Bug     | New    | Low      | Osmux: improvements on lost/dropped RTP packets   |          | 09/30/2018 08:34 AM |                                    |
| 3019 | OsmoHLR  | Feature | New    | Low      | add config for number of auth tuples returned   |          | 06/23/2018 06:58 PM |                                    |
| 3033 | OsmoTRX  | Feature | New    | Low      | Split wiki page into multiple smaller pages   |          | 03/05/2018 11:28 AM |                                    |
| 3038 | multi-voltage USB UART                                 | Feature | New    | Normal   | Add mounting holes?   |          | 03/07/2018 02:12 AM |                                    |
| 3046 | OsmoGSMTester  | Bug     | New    | Normal   | ofono: SierraW modem fails to power on  |          | 01/08/2020 10:41 PM |                                    |
| 3058 | OsmoBTS  | Bug     | New    | Low      | RSL SACCH FILLING are per TRX, not BTS scope  |          | 03/11/2018 08:55 PM |                                    |
| 3097 | OsmoBSC  | Feature | New    | Normal   | ramping of "rxlev access min"   |          | 03/22/2018 11:51 AM | Related to #3097                   |
| 3126 | SDR (Software Defined Radio)                           | Bug     | New    | Low      | Windows 10 Pro 1709: crash of rtl_test.exe  |          | 03/30/2018 02:16 PM |                                    |
| 3141 | OsmoTRX  | Bug     | New    | Normal   | Refactor / clean up TRX CTRL / DATA interfaces implementation                                       |          | 04/05/2018 05:46 PM |                                    |
| 3142 | Cellular Network Infrastructure                        | Feature | New    | Low      | Further simplification of "NITB like" setups  |          | 04/05/2018 08:09 PM |                                    |
| 3169 | OsmoMSC  | Bug     | New    | Low      | OsmoMSC rejects SMPP messages with empty SMS  |          | 01/08/2020 10:56 PM |                                    |
| 3200 | Osmocom Conferences (OsmoDevCon, OsmoCon, OsmoDevCall) | Bug     | New    | Normal   | OsmoDevCon: Use loudspeakers even at IN-Berlin  |          | 04/23/2018 06:53 PM |                                    |

| #    | Project  | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 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 |                                   |
| 3224 | OsmoSGSN   | Bug     | New    | Normal   | verify ciphering after UMTS AKA  |          | 01/08/2020 10:48 PM | Related to #3193,Related to #3224 |
| 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                  |
| 3240 | gr-osmosdr   | Bug     | New    | Normal   | Expose airspy gain setting in gr-osmosdr block   |          | 06/03/2018 12:08 PM |                                   |
| 3243 | OsmoBSC  | Bug     | New    | Normal   | there is MGW config for each separate 'msc', but the MGW settings are stored only once globally  |          | 05/07/2018 03:10 PM |                                   |
| 3280 | OsmocomBB  | Feature | New    | Low      | Multiparty SS support in OsmocomBB   |          | 05/22/2018 07:40 AM |                                   |
| 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 |
| 3309 | libosmocore  | Feature | New    | Normal   | osmo_timer_* should use monotonic clock  |          | 05/31/2018 03:59 PM | Related to #3309                  |
| 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                  |
| 3344 | OsmoTRX  | Feature | New    | Normal   | merge ttsou/siggen   |          | 06/13/2018 07:26 PM |                                   |
| 3345 | OsmoTRX  | Feature | New    | Low      | merge ms branch  |          | 06/13/2018 07:16 PM |                                   |
| 3387 | OsmocomBB  | Feature | New    | Low      | osmocon: Use libosmocore logging system  |          | 10/05/2018 04:21 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 |                                   |
| 3442 | OsmoMGW  | Bug     | New    | Normal   | fix int mgcp_codec_decide() in mgcp_codec.c  |          | 09/04/2019 09:26 AM |                                   |
| 3443 | OsmoMGW  | Bug     | New    | Low      | Check audio-payload options in osmo-mgw VTY  |          | 03/15/2020 08:43 AM |                                   |
| 3469 | OsmoMSC  | Feature | New    | Low      | Support for "service category" in emergency calls  |          | 08/24/2018 12:48 PM | Related to #3470                  |
| 3470 | OsmoMSC  | Feature | New    | Low      | Allow sending "Emergency Number List IE" in LU ACCEPT  |          | 09/01/2018 08:18 PM | Related to #3470                  |
| 3479 | OsmoBSC  | Feature | New    | Normal   | test "every single failure" in osmo-bsc FSMs   |          | 08/20/2018 11:15 AM | Related to #3479                  |
| 3480 | OsmoBSC  | Feature | New    | Normal   | handover from TCH/F to TCH/H to reduce load  |          | 06/08/2020 07:08 PM | Related to #3480,Related to #3481 |
| 3481 | OsmoBSC  | Feature | New    | Normal   | handover from TCH/H to TCH/F to reduce load  |          | 06/08/2020 07:08 PM | Related to #3481,Related to #3481 |
| 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                  |

| #    | Project                    | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|----------------------------|---------|--------|----------|--|----------|---------------------|--|
| 3484 | OsmoBSC                    | Feature | New    | Low      | handover decision: if rxlev is ok but rxqual is bad, move to different timeslot with same TCH kind to avoid interference |          | 10/16/2018 01:30 PM |  |
| 3485 | OsmoBSC                    | Feature | New    | Low      | handover to make room for a less capable subscriber  |          | 10/16/2018 01:16 PM | Related to #3485                                   |
| 3486 | OsmoBSC                    | Feature | New    | Low      | handover decision: congestion: figure out the tradeoff: re-assign within same cell vs. handover to another cell          |          | 10/16/2018 01:16 PM | Related to #3486,Related to #3638                  |
| 3501 | SIMtrace 2                 | Feature | New    | Low      | Multi-sim addon board idea   |          | 08/28/2018 03:00 PM |  |
| 3531 | OP25                       | Bug     | New    | Normal   | Unknown status of the p25 wireshark plugin   |          | 10/06/2022 05:52 AM |  |
| 3564 | OsmoGSMTester              | Feature | New    | Normal   | Investigate ofono and modems Cell Broadcast support  |          | 01/08/2020 10:42 PM | Related to #3564                                   |
| 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 |  |
| 3602 | OsmoSTP                    | Feature | New    | Low      | M2UA support   |          | 09/30/2018 08:00 AM |  |
| 3603 | OsmoSTP                    | Feature | New    | Low      | M2PA support   |          | 10/03/2018 08:58 AM | Related to #3603                                   |
| 3604 | OsmoSTP                    | Feature | New    | Normal   | Global Title Routing   |          | 07/18/2019 05:15 AM |  |
| 3605 | OsmoSTP                    | Feature | New    | Normal   | Global Title Translation   |          | 07/18/2019 05:15 AM |  |
| 3606 | OsmoSTP                    | Feature | New    | Normal   | Support for multiple NI (network indicator)  |          | 10/03/2018 08:58 AM |  |
| 3607 | OsmoSTP                    | Feature | New    | Normal   | Support for capability point codes   |          | 10/03/2018 08:58 AM |  |
| 3609 | OsmoSTP                    | Feature | New    | Low      | Support for C-Link   |          | 10/03/2018 08:58 AM |  |
| 3629 | OsmocomBB                  | Bug     | New    | Normal   | mobile aborting after 'test re-selection 1' on vty   |          | 10/04/2018 02:58 PM |  |
| 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 |
| 3642 | OsmoBSC                    | Bug     | New    | Low      | logging filter imsi leaks bsc_subscr references  |          | 10/09/2018 10:04 PM |  |
| 3648 | OsmoMSC                    | Feature | New    | Low      | persistent VLR (across re-starts of osmo-msc / across power outage)  |          | 05/17/2022 05:39 PM | Related to #3649                                   |
| 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 |  |
| 3653 | OsmocomBB                  | Bug     | New    | Normal   | FACCH/H sometimes not received by BTS with osmocomBB+motorolaCXX   |          | 10/22/2018 02:37 PM | Related to #5518                                   |
| 3658 | Cellular Modem Information | Feature | New    | Low      | Create a "osmocom-bb-host-latest" docker container   |          | 12/01/2019 09:07 AM | Related to #3658                                   |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues  |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|---|
| 3663 | gr-osmosdr                      | Bug     | New    | Normal   | Can't compile gr-osmosdr on macOS Mojave   |          | 10/19/2018 02:37 PM |   |
| 3670 | Cellular Network Infrastructure | Feature | New    | Low      | TTCN-3 tests for statsd exporter code  |          | 09/04/2019 09:03 AM |   |
| 3676 | OsmoGSMTester                   | Bug     | New    | Normal   | ofono: org.ofono.ConnectionManager property Bearer returning "none"                          |          | 06/09/2020 08:39 PM |   |
| 3687 | OsmoMSC                         | Feature | New    | Normal   | Expand "show bsc" command  |          | 11/11/2018 09:50 PM |   |
| 3688 | OsmoSGSN                        | Feature | New    | Low      | move generic gtpub code to libsmocore  |          | 04/15/2019 07:29 AM |   |
| 3689 | OsmoSGSN                        | Bug     | New    | Normal   | Support Cisco GGSN (Cisco 7200 with IOS 12.4.x)  |          | 04/09/2019 11:21 AM |   |
| 3694 | Cellular Network Infrastructure | Bug     | New    | Low      | Fix lintian warnings in .deb packages  |          | 07/18/2019 05:20 AM | Related to #3699  |
| 3696 | OsmoSGSN                        | Bug     | New    | Normal   | Intermittent Connection Drop   |          | 01/08/2020 10:48 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                                   |
| 3731 | OsmoMGW                         | Bug     | New    | Normal   | TTCN3 TC_rtpem_selftest randomly fails   |          | 01/08/2020 10:18 PM |   |
| 3732 | OsmoHLR                         | Feature | New    | Low      | Support tacdb query in HLR   |          | 07/18/2019 06:12 AM | Related to #3732  |
| 3734 | gr-osmosdr                      | Bug     | New    | High     | Cannot compile gr-osmocom  |          | 12/16/2018 12:22 AM |   |
| 3737 | OsmoBSC                         | Bug     | New    | Low      | abort because unused lchan has non-null conn pointer, after AMR config error                 |          | 05/08/2019 03:35 PM |   |
| 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 |   |
| 3751 | OsmoBTS                         | Support | New    | Normal   | Ensure BTS Tests.tcn results of OC-2G resemble what we know/expect from osmo-bts-{sysmo,trx} |          | 12/01/2019 10:52 AM |   |
| 3755 | OsmoMSC                         | Feature | New    | Low      | make retrieval of IMEISV configurable  |          | 05/07/2019 12:28 PM | Related to #3755  |
| 3763 | osmo-sip-connector              | Bug     | New    | Normal   | Implement correct handling for call answered elsewhere                                       |          | 01/22/2019 01:03 PM |   |
| 3776 | OP25                            | Bug     | New    | Normal   | Build fail using gcc version 7.3.0 Ubuntu 18.04.1 LTS  |          | 07/05/2019 07:12 PM |   |
| 3779 | Cellular Network Infrastructure | Feature | New    | Low      | explore providing a VM image with all of osmocore CNI and related tools installed            |          | 02/04/2019 09:52 AM |   |
| 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 |
| 3786 | OsmoBSC                         | Bug     | New    | Low      | Assignment Request modifies conn->lcls state before the Assignment is successful             |          | 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  |
| 3796 | OsmoBTS                         | Bug     | New    | Low      | OsmoBTS doesn't send proper cause values in NACK   |          | 07/18/2019 06:04 AM | Related to #3796  |
| 3797 | rtl-sdr                         | Bug     | New    | Normal   | Exits with "Bus error"   |          | 02/12/2019 02:28 PM |   |

| #    | Project                      | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 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 |  |
| 3820 | OsmoHNBGW                    | Bug     | New    | Normal   | osmo-hnbgw does not properly do RANAP RESET and RESET ACK on the link towards MSC and SGSN |          | 05/13/2021 12:01 PM | Related to #3944                                   |
| 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 |  |
| 3831 | OsmoBSC                      | Feature | New    | Low      | BSC support for "network sharing" via MOCN   |          | 01/20/2021 10:03 AM | Related to #4473                                   |
| 3845 | libosmocore                  | Feature | New    | Low      | Unified logging in Gb NS / BSSGP code  |          | 03/16/2019 02:33 PM |  |
| 3849 | OsmoMGW                      | Bug     | New    | Normal   | race condition problem in rtp flow tests of the ttcn3 testsuite                            |          | 09/04/2019 09:26 AM |  |
| 3865 | OsmoBSC                      | Bug     | New    | Normal   | nanoBTS: GPRS not working anymore, modems unable to attach in osmo-gsm-tester              |          | 05/11/2023 01:00 PM | Is duplicate of #3865                              |
| 3880 | OsmoMSC                      | Bug     | New    | Normal   | GSUP MT-ForwardSM Message Reference - wrong value in a response                            |          | 04/01/2019 07:47 AM |  |
| 3909 | libosmocore                  | Bug     | New    | Normal   | osmo_get_rand_id() fails in containerised environment                                      |          | 03/24/2021 12:34 PM | Related to #3909                                   |
| 3917 | OsmoGSMTester                | Bug     | New    | Normal   | ofono: update debian packages to match our dependencies                                    |          | 04/06/2020 11:30 AM |  |
| 3923 | OsmoSGSN                     | Bug     | New    | Normal   | lu: Respond to SecurityCommandReject messages  |          | 04/24/2019 08:26 AM | Related to #3923                                   |
| 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                                   |
| 3936 | OsmoSGSN                     | Bug     | New    | Normal   | lu: first GMM Service Request does not find a MM ctx                                       |          | 05/07/2019 01:37 PM | Related to #3936                                   |
| 3939 | OsmoSGSN                     | Bug     | New    | Normal   | TTCN: do a GMM Attach Request when in GMM Connected and have a PDP Request                 |          | 04/24/2019 08:25 AM |  |
| 3940 | OsmoSGSN                     | Bug     | New    | Normal   | TTCN-3: lu: test UMTS Auth   |          | 04/24/2019 08:24 AM |  |
| 3949 | OsmoTRX                      | Bug     | New    | Normal   | osmo-trx-lms: improve runtime gain setting (missing calibration)                           |          | 09/30/2020 08:08 PM | Related to #4468                                   |
| 3962 | OsmoTRX                      | Feature | New    | Low      | osmo-trx: Use gcc attribute no_sanitise to run fine with ASan enabled                      |          | 08/26/2019 02:04 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 |
| 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                              |
| 3980 | OsmoMGW                      | Bug     | New    | Normal   | Clear Command before CRCX OK may leak MGW endpoint   |          | 05/06/2019 10:11 PM |  |
| 3981 | OsmoTRX                      | Bug     | New    | Normal   | osmo-trx-lms: Overruns appear from time to time  |          | 09/30/2020 08:08 PM | Related to #3981                                   |
| 3983 | libosmocore                  | Bug     | New    | Normal   | osmo_fsm_inst_change_parent() forgets to talloc reparent                                   |          | 03/24/2021 12:35 PM |  |
| 3987 | libosmocore                  | Feature | New    | Low      | introduce libosmocore_init() to replace individual initialization calls                    |          | 05/08/2019 03:03 PM | Related to #3987                                   |

| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                                     |
|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|--|
| 3988 | OsmoMSC                               | Feature | New    | Low      | change the remaining DEBUGP() statements to LOG_MSC_A() / LOG_MSC_A_CAT()                |          | 05/08/2019 03:26 PM |  |
| 3992 | OsmoMSC                               | Bug     | New    | Normal   | inter-MSC handover for signalling-only?  |          | 05/09/2019 11:39 AM |  |
| 4009 | OsmoBTS                               | Bug     | New    | Normal   | Channel Activation starts SACCH too early in Synchronous Handover                        |          | 03/11/2022 12:44 PM | Related to #4009,Related to #4010,Related to #4009 |
| 4014 | OsmoBTS                               | Feature | New    | Low      | Allow multiple [virtual] BTS instances on same [SDR] hardware that supports multiple TRX |          | 05/21/2019 12:07 PM |  |
| 4017 | OsmoMSC                               | Bug     | New    | Normal   | MSC fails to handle calls  |          | 05/29/2019 04:56 PM |  |
| 4018 | OsmoPCU                               | Bug     | New    | Normal   | investigate ordering of includes paths   |          | 05/23/2019 10:59 AM |  |
| 4019 | OsmoPCU                               | Bug     | New    | Normal   | implement a command to show all informations from the bts                                |          | 11/25/2020 07:33 PM |  |
| 4031 | OsmoBTS                               | Bug     | New    | Normal   | OML part of BTS has no TTCN-3 tests  |          | 09/04/2019 09:04 AM | Related to #4031,Related to #4031                  |
| 4033 | OsmoGGSN (former OpenGGSN)            | Feature | New    | Normal   | ttcn3-ggsn-test: Add tests to verify secondary pdp context management                    |          | 05/30/2019 03:19 PM |  |
| 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                  |
| 4080 | rtl-sdr                               | Support | New    | Normal   | Receiving UTAs on 978 Mhz  |          | 07/02/2019 12:08 PM |  |
| 4082 | OsmoBTS                               | Bug     | New    | Normal   | OML: Unknown/unhandled PCHAN type: 0 NONE  |          | 11/18/2019 10:09 AM |  |
| 4103 | libosmocore                           | Feature | New    | Low      | TUAK support as per 3GPP TS 35.231   |          | 03/24/2021 12:33 PM |  |
| 4108 | Cellular Network Infrastructure       | Bug     | New    | Low      | osmo-ctrl2cgi, osmo-trap2cgi: missing default configs                                    |          | 07/16/2019 12:30 PM | Related to #4108                                   |
| 4124 | OsmoBSCNAT                            | Feature | New    | Normal   | OsmoBSCNAT : Write user manual   |          | 01/08/2020 10:56 PM | Related to #4124                                   |
| 4128 | OsmoHNBGW                             | Feature | New    | Low      | Add support of Huawei hNodeB protocol  |          | 07/24/2019 03:39 PM |  |
| 4130 | OP25                                  | Bug     | New    | Normal   | OP25 User Interface  |          | 07/26/2019 02:36 AM |  |
| 4135 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Normal   | how to use network inside ec20   |          | 07/31/2019 11:20 AM |  |
| 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 |  |
| 4153 | OsmoMGW                               | Bug     | New    | Normal   | 3G voice broken with ALu 9361 femto  |          | 04/25/2022 05:43 PM |  |
| 4158 | OsmoHNBGW                             | Bug     | New    | Normal   | segfault when paging, in a situation with duplicate CID in hnb register requests         |          | 05/13/2021 12:01 PM | Related to #4162                                   |
| 4172 | OsmoGGSN (former OpenGGSN)            | Bug     | New    | Normal   | osmoggsn crashes when stopping   |          | 08/29/2019 11:35 AM |  |

| #    | Project                               | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|---------------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 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 |                  |
| 4189 | OsmoBSC                               | Feature | New    | Low      | TTCN-3 tests for load-based hand-over in BSC   |          | 09/04/2019 09:10 AM | Related to #4189 |
| 4196 | OsmoMSC                               | Feature | New    | Normal   | CC Setup, Call Confirmed: decode and use the Supported Codec List IE                   |          | 09/25/2019 05:27 PM |                  |
| 4206 | Qualcomm Linux Modems by Quectel & Co | Support | New    | Urgent   | Unbrick cpe router without web ui interface and terminal                               |          | 02/22/2021 02:01 PM |                  |
| 4222 | OsmoSGSN                              | Bug     | New    | High     | Implement PS Paging for the Routing Areas  |          | 10/03/2020 02:20 PM | Related to #4222 |
| 4226 | Retronetworking                       | Feature | New    | Low      | STM-1 / USB interface?   |          | 01/30/2022 10:14 AM |                  |
| 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 |                  |
| 4274 | OsmoSTP                               | Bug     | New    | Normal   | AS Name isn't displayed  |          | 03/14/2024 10:33 AM |                  |
| 4277 | Cellular Network Infrastructure       | Feature | New    | Low      | implement an SMSC to work with OsmoMSC   |          | 11/22/2019 02:45 PM |                  |
| 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 |                  |
| 4310 | osmo-sip-connector                    | Bug     | New    | Normal   | sends BYE to self  |          | 01/09/2020 09:21 AM |                  |
| 4312 | OsmoHLR                               | Bug     | New    | High     | GSUP keepalives / connection loss detection  |          | 10/12/2020 02:42 PM |                  |
| 4317 | osmo-pcap                             | Bug     | New    | Low      | external tests not enabled in jenkins.sh   |          | 12/10/2019 02:42 PM |                  |
| 4325 | gr-osmosdr                            | Bug     | New    | Normal   | can't open hackrf_sink with device index   |          | 12/13/2019 09:18 AM |                  |
| 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 |
| 4337 | OsmoMSC                               | Bug     | New    | Normal   | osmo-msc: Don't send LU-Reject after LU-Accept if no TMSI Realloc Complete is received |          | 01/07/2021 06:22 PM | Related to #4337 |
| 4352 | osmo-sip-connector                    | Bug     | New    | Normal   | Need to handle 401 Unauthorized  |          | 01/09/2020 02:03 PM |                  |
| 4359 | gr-osmosdr                            | Bug     | New    | Normal   | Compiling from Git Bramcj gr3.8 fails  |          | 01/12/2020 05:08 PM |                  |
| 4363 | Distributed GSM                       | Feature | New    | Low      | mslookup_client_mdns_test: add stubs, so it works without multicast                    |          | 04/28/2020 02:55 PM | Related to #4363 |
| 4374 | OsmoMSC                               | Feature | New    | Normal   | send GSUP PurgeMS Request (CN-Domain = CS) to the HLR upon IMSI-Detach                 |          | 01/23/2020 03:19 AM |                  |
| 4376 | Cellular Network Infrastructure       | Feature | New    | Normal   | Define distinct X timer numbers across all osmo programs                               |          | 01/23/2020 09:21 PM |                  |
| 4415 | OsmoGGSN (former OpenGGSN)            | Feature | New    | Normal   | Document in OsmoGGSN User Manual the IPv6 allocation process over GTP                  |          | 02/25/2020 03:05 PM |                  |
| 4417 | IMSI Pseudonymization                 | Bug     | New    | Normal   | Applet: LU counter should only increase on successful location update                  |          | 04/16/2020 08:45 AM | Related to #4478 |
| 4418 | OsmocomBB                             | Feature | New    | Normal   | test-sim: support all libosmocore algorithms (comp128 v1, v2, v3; MILENAGE)            |          | 02/26/2020 11:41 PM |                  |
| 4427 | rtl-sdr                               | Bug     | New    | Normal   | docker + rtl_sdr issue   |          | 02/29/2020 01:16 PM |                  |



| #    | Project                        | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|--------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 4432 | OsmoMGW                        | Bug     | New    | Normal   | for 'domain **', mgw should echo the domain of the MGCP client                               |          | 03/04/2020 12:39 AM |                                   |
| 4433 | OsmoGGSN (former OpenGGSN)     | Feature | New    | Normal   | sgsnemu: Add support for IPv4v6 EUAs   |          | 03/04/2020 10:44 AM |                                   |
| 4443 | libosmocore                    | Bug     | New    | Normal   | CTRL interface blocks wildcard in rate_ctr   |          | 03/08/2020 01:06 PM | Related to #4443,Related to #4443 |
| 4451 | OsmoMSC                        | Bug     | New    | Normal   | vtty 'show stats level': different stats levels yield identical results                      |          | 03/09/2020 10:10 PM |                                   |
| 4455 | OP25                           | Feature | New    | Normal   | AMBE CODEC   |          | 03/28/2020 09:53 PM |                                   |
| 4457 | libosmo-sccp + libosmo-sigtran | Bug     | New    | Normal   | editing the SCCP address book (global-title) on a running instance may crash the application |          | 03/17/2020 11:17 PM |                                   |
| 4458 | Core testing infrastructure    | Feature | New    | Low      | Set up a STF (Smartphone Testing Farm)   |          | 03/18/2020 02:44 PM |                                   |
| 4471 | OsmocomBB                      | Support | New    | Normal   | Received FTMTTOOL from phone, ramloader has aborted  |          | 03/29/2020 11:18 AM |                                   |
| 4473 | OsmoBTS                        | Feature | New    | Low      | Support for broadcast of MOCN related SI21/22/23   |          | 03/29/2020 07:39 PM | Related to #4473                  |
| 4477 | IMSI Pseudonymization          | Feature | New    | Normal   | OsmoHLR: send next pseudo IMSI via SMS   |          | 04/16/2020 08:45 AM | Blocks #4477,Blocks #4477         |
| 4478 | IMSI Pseudonymization          | Feature | New    | Normal   | Applet: proper warning after too many LU with same IMSI                                      |          | 04/16/2020 08:45 AM | Related to #4478                  |
| 4479 | IMSI Pseudonymization          | Feature | New    | Normal   | Applet: change IMSI after receiving SMS  |          | 04/16/2020 08:45 AM |                                   |
| 4480 | IMSI Pseudonymization          | Bug     | New    | Normal   | Applet/OsmoMSC: fix or workaround for OsmoMSC only paging attached MS                        |          | 04/16/2020 08:45 AM | Related to #4480                  |
| 4481 | IMSI Pseudonymization          | Feature | New    | Low      | Applet: test various REFRESH qualifiers to possibly shorten the time for changing the IMSI   |          | 04/16/2020 08:45 AM |                                   |
| 4484 | gr-osmosdr                     | Bug     | New    | Normal   | CMakeFiles.txt   |          | 04/06/2020 05:19 PM |                                   |
| 4486 | IMSI Pseudonymization          | Feature | New    | Normal   | Applet: gracefully handle case where timer is set twice                                      |          | 04/16/2020 08:45 AM |                                   |
| 4488 | OsmoPCU                        | Feature | New    | Normal   | have uplink/downlink tests for all CS/MCS  |          | 11/25/2020 07:28 PM | Related to #4488,Related to #4510 |
| 4489 | IMSI Pseudonymization          | Feature | New    | Normal   | Specification: mark mandatory parts / implementation details as such                         |          | 04/16/2020 08:44 AM |                                   |
| 4490 | IMSI Pseudonymization          | Feature | New    | Normal   | Specification: how would IMSI-pseudo interact within a combined (2G-4G)+5G network?          |          | 04/16/2020 08:44 AM |                                   |
| 4491 | OsmoHLR                        | Bug     | New    | Low      | Cancel in old VLR/SGSN, if new VLR/SGSN differs from old                                     |          | 04/15/2020 12:29 PM |                                   |
| 4504 | OsmoTRX                        | Feature | New    | Low      | Buidl LimeSuite without GUI in osmocom feeds   |          | 09/30/2020 08:08 PM |                                   |
| 4513 | rtl-sdr                        | Bug     | New    | Normal   | PKG information broken   |          | 04/26/2020 03:21 PM |                                   |
| 4525 | Cellular Modem Information     | Feature | New    | Normal   | MTK  |          | 05/03/2020 03:57 PM | Is duplicate of #4525             |
| 4536 | OsmoBSC                        | Feature | New    | Normal   | Multi BTS support within a single physical device  |          | 06/21/2020 01:10 PM |                                   |
| 4538 | OsmoBSC                        | Bug     | New    | Normal   | timeslot_fsm.c: make the PDCH act/deact timeout configurable                                 |          | 05/09/2020 08:20 PM | Related to #4539                  |

| #    | Project                         | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues                    |
|------|---------------------------------|---------|--------|----------|--|----------|---------------------|-----------------------------------|
| 4541 | OsmoBSC                         | Feature | New    | Normal   | add ttcn3 tests for situations of Abis latency spikes, where chan act/deact ACK messages arrive late |          | 11/20/2023 05:03 PM | Related to #4541,Related to #6375 |
| 4551 | OsmoMGW                         | Feature | New    | Normal   | Dynamic/runtime allocation of new endpoints  |          | 05/14/2020 10:56 PM |                                   |
| 4552 | OsmoMGW                         | Bug     | New    | Normal   | ip-probing issue with BTS connection - no rebinding to a correct IP address                          |          | 05/14/2020 11:18 PM |                                   |
| 4553 | OsmoBSC                         | Bug     | New    | Normal   | OsmoBSC doesn't handle RESET IP RESOURCE BSSMAP message  |          | 05/16/2020 07:44 PM |                                   |
| 4554 | OsmoMGW                         | Bug     | New    | Normal   | Clean up stale endpoints after OsmoBSC crash   |          | 05/16/2020 08:52 PM |                                   |
| 4557 | OsmoMSC                         | Bug     | New    | Normal   | normal BSSMAP Clear Command from MSC contains cause == 0 meaning "Radio interface message failure"   |          | 05/20/2020 07:17 PM |                                   |
| 4574 | OsmoHNBGW                       | Feature | New    | Low      | Femtocell choice in 2020/06  |          | 03/09/2024 07:09 PM |                                   |
| 4579 | OsmoBTS                         | Bug     | New    | Normal   | add IPv6 support   |          | 02/12/2021 12:26 PM |                                   |
| 4580 | SDR (Software Defined Radio)    | Feature | New    | Normal   | gr-osmosdr compilation under GnuRadio 3.9.0  |          | 06/04/2020 01:13 AM |                                   |
| 4581 | OsmocomBB                       | Support | New    | Normal   | compiler error assert.h no such file   |          | 06/05/2020 09:54 AM |                                   |
| 4587 | Cellular Network Infrastructure | Feature | New    | Low      | Add port numbers to /etc/services during installation  |          | 06/08/2020 10:28 AM | Related to #5013                  |
| 4588 | OsmoHLR                         | Feature | New    | Low      | OsmoHLR doesn't appear to have any statistics / counters   |          | 06/06/2020 09:44 AM |                                   |
| 4589 | OsmoBSC                         | Bug     | New    | Normal   | osmo-bsc crashes with "lchan allocation failed in state WAIT_RF_RELEASE_ACK: Timeout"                |          | 06/06/2020 10:40 PM |                                   |
| 4590 | libosmocore                     | Feature | New    | Normal   | Export talloc data as counters for better memory leakage monitoring in production                    |          | 09/12/2022 03:53 PM |                                   |
| 4591 | libosmocore                     | Feature | New    | Normal   | Export FSM states and statistics with counters   |          | 03/24/2021 12:34 PM |                                   |
| 4596 | OsmocomTETRA                    | Feature | New    | Normal   | Port to GR3.8  |          | 01/08/2021 05:23 PM |                                   |
| 4599 | OsmoSGSN                        | Bug     | New    | Normal   | counter group sgsn:dpctx already exists for index X, instead using Y                                 |          | 09/09/2020 10:05 AM | Related to #4604                  |
| 4612 | OsmoMSC                         | Support | New    | Normal   | test handover on non-voice call conn (no CC transaction present)                                     |          | 06/14/2020 12:21 PM |                                   |
| 4630 | OsmoBTS                         | Bug     | New    | Low      | osmo-bts: GSMTAP DL (tx) messages use hardcoded signal level 0                                       |          | 10/05/2022 09:11 AM |                                   |
| 4631 | OsmoSGSN                        | Bug     | New    | Low      | packet/byte counters don't work for 3G   |          | 06/24/2020 06:58 AM |                                   |
| 4632 | OsmoMSC                         | Feature | New    | Normal   | update the cell id in the VLR when receiving BSSMAP HANDOVER PERFORMED from the BSC                  |          | 06/24/2020 12:35 PM | Related to #4632                  |
| 4633 | OsmoMSC                         | Feature | New    | Normal   | update the Cell ID in the VLR after an inter-BSC / inter-MSC handover                                |          | 06/24/2020 12:40 PM |                                   |
| 4634 | OsmoMSC                         | Feature | New    | Low      | lu: record SAC, and show RNC ID and SAC in the vty upon 'show subscriber'                            |          | 06/24/2020 06:08 PM |                                   |
| 4635 | libosmo-sccp + libosmo-sigtran  | Feature | New    | Normal   | quirks when initializing SS7 ASP   |          | 06/25/2020 04:46 PM | Related to #4635                  |
| 4637 | OsmoTRX                         | Bug     | New    | Normal   | limesdr usb gain setting changes break gsm phasenoise constraints                                    |          | 06/29/2020 04:43 PM |                                   |
| 4638 | Altair LTE Modems               | Feature | New    | Normal   | Mikrotik R11e-4G mtd dump  |          | 06/13/2021 10:15 AM |                                   |

| #    | Project                      | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 4640 | OsmoBSC                      | Feature | New    | Low      | SI2quater: support multiple EUTRAN Neighbor Cells List entries, not only multiple EUTRAN Cell Descriptions in the first Cells List entry |          | 07/06/2020 03:03 PM |                  |
| 4642 | OsmoNITB                     | Bug     | New    | Low      | Attempting to set illegal id for FSM instance of type 'OM2000-MO'  |          | 07/03/2020 06:40 PM |                  |
| 4647 | OsmoBSC                      | Bug     | New    | Low      | Getting attributes from BTS0 type nokia_site is not supported.   |          | 07/04/2020 09:05 AM |                  |
| 4653 | SDR (Software Defined Radio) | Bug     | New    | Normal   | cannot import name 'fosphor'   |          | 07/07/2020 02:39 AM |                  |
| 4660 | OsmoMSC                      | Bug     | New    | Normal   | GSM AUTH failure: mismatching sres - with module TRM-5 ext   |          | 07/12/2020 08:01 PM |                  |
| 4677 | SDR (Software Defined Radio) | Bug     | New    | Normal   | fopher crash on OSX with Qt  |          | 07/27/2020 03:27 AM |                  |
| 4682 | OsmoBSC                      | Feature | New    | Low      | OM2000 MCTR Support for Ericsson RBS6000 / DUG 20  |          | 07/30/2020 06:51 AM | Precedes #4682   |
| 4685 | SDR (Software Defined Radio) | Bug     | New    | Normal   | Can't compile libusrp  |          | 08/04/2020 08:52 AM |                  |
| 4691 | OsmoMSC                      | Bug     | New    | Low      | setfault in osmo_sockaddr_str_is_set() via call_leg_ensure_ci()  |          | 02/06/2021 09:47 AM |                  |
| 4705 | Distributed GSM              | Bug     | New    | Normal   | osmo-hlr user manual: explain the mslookup domain suffix "mdns.osmocom.org", it has no mention in the user manual                        |          | 08/13/2020 12:54 AM |                  |
| 4717 | OsmoMSC                      | Feature | New    | Normal   | support Handover with changing codec   |          | 08/18/2020 05:14 PM | Related to #4717 |
| 4720 | rtl-sdr                      | Bug     | New    | Normal   | rtl_power reports invalid values   |          | 08/19/2020 02:47 PM |                  |
| 4737 | Distributed GSM              | Support | New    | Low      | How to configure Queries gsup.hlr.123456789.imsi, sip.voice.123.msisdn, smpp.sms.123.msisdn  |          | 08/31/2020 11:10 AM |                  |
| 4745 | OsmoMGW                      | Bug     | New    | Low      | osmo-mgw: Wrong IP address returned in SDP "o=" section  |          | 10/05/2022 11:00 AM |                  |
| 4746 | libosmocore                  | Bug     | New    | Normal   | gb: NS2: implement a NSE based logfilter   |          | 11/14/2020 08:42 AM |                  |
| 4749 | OsmoGGSN (former OpenGGSN)   | Bug     | New    | Normal   | Unknown/Unimplemented PCO Protocol   |          | 02/09/2022 01:26 PM |                  |
| 4762 | osmo-sip-connector           | Feature | New    | Low      | Osmo Analog Support  |          | 09/25/2020 07:31 AM | Related to #4763 |
| 4764 | OsmoMSC                      | Bug     | New    | Normal   | make sure Assignment times out, always   |          | 09/23/2020 02:08 PM |                  |
| 4766 | OsmoBSC                      | Bug     | New    | Normal   | pcu interface: add app info request  |          | 09/26/2020 10:21 PM |                  |
| 4767 | OsmoBSC                      | Bug     | New    | Normal   | pcu interface: add suspend request support   |          | 09/29/2020 04:40 PM |                  |
| 4783 | libosmocore                  | Bug     | New    | Low      | doxygen: duplicate 'ports.h' warning   |          | 10/07/2020 01:29 PM |                  |
| 4790 | OsmoHNBGW                    | Feature | New    | Low      | Vodafone HSPA+ femtocell available in Deutschland  |          | 03/09/2024 07:08 PM |                  |
| 4806 | osmo-ccid-firmware           | Feature | New    | Low      | Add support of T=1?  |          | 10/15/2020 03:40 PM |                  |
| 4812 | OsmoPCU                      | Feature | New    | Low      | RTTI (Reduced Transmission Time Interval) Support  |          | 10/16/2020 08:43 AM |                  |
| 4813 | OsmoPCU                      | Feature | New    | Low      | FANR (Fast ACK/NACK Reporting) support   |          | 10/16/2020 08:46 AM |                  |
| 4825 | OsmoSGSN                     | Bug     | New    | Normal   | security command is missing sometimes  |          | 10/22/2020 02:40 AM |                  |
| 4827 | OsmoBTS                      | Bug     | New    | Normal   | OsmoBTS VTY is lacking various vital information   |          | 10/23/2020 07:14 PM |                  |
| 4846 | OsmoPCU                      | Feature | New    | Normal   | change RBB received block bitmap into 1s when everything was acked   |          | 11/04/2020 02:29 AM |                  |

| #    | Project                        | Tracker | Status | Priority | Subject  | Assignee | Updated             | Related issues   |
|------|--------------------------------|---------|--------|----------|--|----------|---------------------|------------------|
| 4847 | OsmoPCU                        | Bug     | New    | Normal   | fix LLC-DISCARD behaviour  |          | 11/04/2020 02:37 AM | Related to #4847 |
| 4858 | OsmoBSC                        | Bug     | New    | Normal   | handover CHANnel ACTIVation: BSC sends timing advance for lchan activation in a different cell |          | 11/10/2020 05:41 PM |                  |
| 4860 | libosmo-abis                   | Feature | New    | Low      | Implement separation of line/TEI/datalinks in E1 pcap  |          | 11/04/2021 06:31 PM |                  |
| 4863 | OsmoMSC                        | Bug     | New    | Low      | T3212 is unclear in config/vty   |          | 11/19/2020 06:10 PM |                  |
| 4869 | OsmoPCU                        | Bug     | New    | Normal   | wireshark: Support dissecting LLC frames on top of RLCMAC (E)GPRS data blocks                  |          | 06/26/2023 11:03 AM | Related to #5367 |
| 4882 | OsmoHNBGW                      | Feature | New    | Low      | HSPA+ Picocell available in U.S  |          | 03/09/2024 07:08 PM |                  |
| 4884 | OsmoBSC                        | Bug     | New    | Normal   | RLL_REL_IND is recieved after RF_CHAN_REL  |          | 12/02/2020 11:51 AM |                  |
| 4885 | libosmocore                    | Bug     | New    | Normal   | configure doesn't check for python3  |          | 12/02/2020 03:36 AM |                  |
| 4886 | OsmoSGSN                       | Bug     | New    | Normal   | UE does not connect data when moving from 2G->3G   |          | 12/04/2020 01:29 AM |                  |
| 4893 | osmo-gbproxy                   | Feature | New    | Low      | gbproxy2: Make feature bitmap configurable   |          | 12/08/2020 07:55 AM | Related to #4893 |
| 4900 | OsmoGSMTester                  | Feature | New    | Low      | hardware and wiring verification / selftest  |          | 12/08/2020 11:03 AM |                  |
| 4908 | libosmocore                    | Bug     | New    | Normal   | Errors compiling with -std=c++14   |          | 03/01/2021 03:38 PM |                  |
| 4915 | osmo-e1d                       | Feature | New    | Low      | consider a one-thread-per-line architecture  |          | 07/29/2023 07:31 AM |                  |
| 4925 | libosmo-sccp + libosmo-sigtran | Bug     | New    | Normal   | SCTP multihoming / ABORT between osmo-msc and osmo-stp   |          | 01/04/2021 11:32 AM | Related to #4926 |

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